



Reference Manual DCM IDL

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1 D C M

General interface definition for the DCM Digital Content Manager. This document describes the interface through Corba of the DCM device.

In the [Introduction](#) you will find some explanation about the usage.

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2 Introduction

IDL call implementation.

In general commands are executed to the "up to first error" method.

- Setting values will continue until the end of the list or an invalid record is encountered. The latter case will raise an exception
- Getting values will only succeed when all filter values are correct.

Two examples:

- Calling IPS_OutTS_AddL to create new TSs, returns an OpNotSucceeded exception and returns no newly created streams if the system already has 1998 TSs and you want to add 3 more. Two streams will be added however.
- When calling the IPS_OutTS_GetL to obtain a list of outgoing TS, the BoardNr and SlotNr must exist. When a list of refs is supplied, all those refs must exist. If not an OpNotSucceeded will be raised.

DCM architecture overview

Multiplexing

- A TS is identified by a physical reference IPS_RefTS_t.
- BoardGetL_V2: Get a list of present boards in the device and their board type.
- Input: TS: IPS_InTS_GetL: Get a list of incoming transport streams Service: IPS_InServiceGetL: Get the list of services on an input TS that are currently present in the incoming transport stream or passed to an output
- Output: TS on ASI: TS always exists TS on GbE IPS_OutTS_AddL: Create a number of TSs based on board defaults IPS_OutDefaultsSet(), IPS_OutDefaultsGet() Service: IPS_OutServiceAddL: Add a list of services to one or more outgoing TSs

Scrambling

DCM scrambler configuration and configuration of parameters for communication with Conditional Access Systems (CAS) can be done using the following calls. Details of these calls are listed in scrambler.idl and are available upon request.

- Scrambling configuration
 1. Scrambler settings.
The IOP call GetScsSettings can be used to get the global scrambler settings The IOP call SetScsSettings can be used to set the global scrambler settings. This IOP call takes the same parameters the previous one returns.
 2. Proxy information.
To connect with a simulcrypt device (EIS, ECMG) a proxy needs to be created on the [DCM](#). All simulcrypt proxies have a unique identifier (proxy_id). This proxy_id is assigned to the proxy at construction time and can be used to address that specific proxy. The IOP call GetInterfaceList will return all proxy_id's currently in use. These proxy_id's are listed per proxy type.

- ECMG proxy.

1. ECMG Proxy creation.

A new ECMG proxy can be created by using the CreateEcmg IOP call. This call returns only one parameter:

- EcmgId unique identifier (proxy_id) for newly created ECMG proxy. This proxy_id needs to be used in all other IOP calls concerning this proxy. An existing ECMG proxy can be removed by using the DeleteEcmg IOP call. This call takes only one argument:
- EcmgId unique identifier (proxy_id) for ECMG proxy

2. ECMG Proxy configuration.

Once a proxy has been created, it can be configured. The current configuration can be checked using the GetEcmgConfig IOP call. An ECMG proxy can be configured by using the SetEcmgConfig IOP call.

Extra parameters can be configured for an ECMG proxy. A lot of channel specific parameters (reported by a channel_status message between ECMG and scrambler) can be overruled. - Therefore the IOP call SetEcmgOverrule can be used. This overrule configuration can be checked with the GetEcmgOverrule IOP call. Two more channel specific parameters can be overruled with the SetEcmgOverruleExt IOP call. This extra overrule configuration can be checked with the GetEcmgOverruleExt IOP call.

3. ECMG Connections.

The IOP call GetConnList will return all ConnId's currently in use for a specific ECMG proxy. This call takes only one argument:

- EcmgId unique identifier (proxy_id) for ECMG proxy And will return a list of all used ConnId's:
- ConnIds list of all ConnId's for ECMG proxy.

- ECMG connection creation.

A new connection can be created by the means of the CreateEcmgConn IOP call. An existing connection can be removed by using the DeleteEcmgConn IOP call.

- ECMG connection configuration.

Once an ECMG connection has been created, it can be configured. The current configuration can be checked using the GetEcmgConnConfig IOP call. An ECMG connection can be configured by using the SetEcmgConnConfig IOP call. This call uses the same parameters as the get call.

- Connection status.

For every connection the status can be retrieved, by using the GetEcmgConnStatus IOP call.

1. ECMG status.

The status of an ECMG proxy can be retrieved, by using the GetEcmgStatus IOP call. This call takes only one argument:

- EcmgId unique identifier (proxy_id) for ECMG proxy.

1. Descriptor rules.

Descriptor rules can be defined on proxy level. These rules can append private data to the CA descriptors. A descriptor rule needs to be created and configured. Each descriptor rule has a unique identifier (DescRuleId), which is assigned to the descriptor rule at construction time and can be used to address that specific descriptor rule.

The IIOP call GetEcmgDescList will return all DescRuleId's currently in use for a specific ECMG proxy. This call takes only one argument:

- EcmgId unique identifier (proxy_id) for ECMG proxy And will return a list of all used DescRuleId's:
- DescRuleIds list of all DescRuleId's for ECMG proxy
- Descriptor rule creation.

A new descriptor rule can be created by the means of the CreateEcmgDescriptor IIOP call. This call takes only one argument:

- EcmgId unique identifier (proxy_id) for ECMG proxy And will return one argument as well:
- DescRuleId Unique identifier for newly created descriptor rule. This DescRuleId needs to be used in all other IIOP calls concerning this proxy.

An existing descriptor rule can be removed by using the DeleteEcmgDescriptor IIOP call.

- Descriptor rule configuration.

Once descriptor rule has been created, it can be configured. The current configuration can be checked using the GetEcmgDescriptor IIOP call. This call takes two arguments:

- EcmgId unique identifier (proxy_id) for ECMG proxy.
- DescRuleId unique identifier for descriptor rule.

A descriptor rule can be configured by using the SetEcmgDescriptor IIOP call. This call uses the same parameters as the get call.

1. Hot backup configuration

The connection to an ECMG can be denied for inactive devices. To enable this feature a setting on the ECMG proxy must be reset. This setting can be adapted using the SetHotEcmgConnection IIOP call. This call takes the following arguments:

- EcmgId unique identifier (proxy_id) for ECMG proxy
- bBackupHotStandby flag to indicate whether hot standby (inactive device establishes connection to ECMG) must be enabled or not

This setting can be checked by using the GetHotEcmgConnection IIOP call. This call uses the same parameters as the set call.

- EMMG proxy

1. EMMG Proxy creation. A new EMMG proxy can be created by using the CreateEmmg IIOP call. This call returns only one parameter:

- EmmgId unique identifier (proxy_id) for newly created EMMG proxy. This proxy_id needs to be used in all other IIOP calls concerning this proxy.

An existing EMMG proxy can be removed by using the DeleteEmmg IIOP call. This call takes only one argument:

- EmmgId unique identifier (proxy_id) for EMMG proxy.

1. EMMG Proxy configuration. Once a proxy has been created, it can be configured. The current configuration can be checked using the GetEmmgConfig IIOP call. This call takes only one argument:

- EmmgId unique identifier (proxy_id) for ECMG proxy. An ECMG proxy can be configured by using the SetEmmgConfig IIOP call. This call uses the same parameters as the get call.

1. EMMG status. The status of an EMMG proxy can be retrieved, by using the GetEmmgStatus IIOP call. This call takes only one argument:

- EmmgId unique identifier (proxy_id) for EMMG proxy.

1. Descriptor rules. Descriptor rules can be defined on proxy level. These rules can append private data to the CA descriptors in the CAT. A descriptor rule needs to be created and configured. - Each descriptor rule has a unique identifier (DescRuleId), which is assigned to the descriptor rule at construction time and can be used to address that specific descriptor rule.

The IIOP call GetEmmgDescList will return all DescRuleId's currently in use for a specific EMMG proxy. This call takes only one argument:

- EmmgId unique identifier (proxy_id) for EMMG proxy. And will return a list of all used DescRuleId's:
- DescRuleIds list of all DescRuleId's for EMMG proxy.
- Descriptor rule creation. A new descriptor rule can be created by the means of the CreateEmmgDescriptor IIOP call. This call takes only one argument:
 - EmmgId unique identifier (proxy_id) for EMMG proxy And will return one argument as well:
 - DescRuleId Unique identifier for newly created descriptor rule. This DescRuleId needs to be used in all other IIOP calls concerning this proxy.

An existing descriptor rule can be removed by using the DeleteEmmgDescriptor IIOP call. This call takes two arguments:

- EmmgId unique identifier (proxy_id) for EMMG proxy.
- DescRuleId unique identifier for descriptor rule.
- Descriptor rule configuration. Once descriptor rule has been created, it can be configured. The current configuration can be checked using the GetEmmgDescriptor IIOP call. This call takes two arguments:
 - EmmgId unique identifier (proxy_id) for EMMG proxy.
 - DescRuleId unique identifier for descriptor rule.A descriptor rule can be configured by using the SetEmmgDescriptor IIOP call. This call uses the same parameters as the get call.

- EIS proxy.

1. Proxy creation. A new EIS proxy can be created by using the CreateEis IIOP call. This call returns only one parameter:
 - EisId unique identifier (proxy_id) for newly created EIS proxy. This proxy_id needs to be used in all other IIOP calls concerning this proxy.

An existing EIS proxy can be removed by using the DeleteEis IIOP call. This call takes only one argument:

- EisId unique identifier (proxy_id) for EIS proxy.

1. Proxy configuration. Once a proxy has been created, it can be configured. The current configuration can be checked using the GetEisConfig IIOP call. This call takes only one argument:

- EisId unique identifier (proxy_id) for EIS proxy. An EIS proxy can be configured by using the SetEisConfig IIOP call. This call uses the same parameters as the get call.
1. EIS status. The status of an EIS proxy can be retrieved, by using the GetEisStatus IIOP call. This call takes only one argument:
 - EisId unique identifier (proxy_id) for EIS proxy. And will return the following parameters:
 - EisConnectionState status of connection.
 - ConnectionPeer IP address of connected EIS.

For historical reasons a second IIOP call, GetEisStatusEx, exists which will return the same and additional parameters. This call takes again only one argument:

- EisId unique identifier (proxy_id) for EIS proxy And will return the following parameters:
 - EisConnectionState status of connection.
 - ConnectionPeer IP address of connected EIS.
 - NbrOfChannels number of connections to EIS.
 - PSIG proxy.
1. Proxy creation. A new PSIG proxy can be created by using the CreatePsig IIOP call. This call returns only one parameter:
 - PsigId unique identifier (proxy_id) for newly created PSIG proxy. This proxy_id needs to be used in all other IIOP calls concerning this proxy.

An existing PSIG proxy can be removed by using the DeletePsig IIOP call. This call takes only one argument:

- PsigId unique identifier (proxy_id) for PSIG proxy.
1. Proxy configuration Once a proxy has been created, it can be configured. The current configuration can be checked using the GetPsigConfig IIOP call. This call takes only one argument:
 - PsigId unique identifier (proxy_id) for PSIG proxy.

A PSIG proxy can be configured by using the SetPsigConfig IIOP call. This call uses the same parameters as the get call.

1. PSIG status. The status of a PSIG proxy can be retrieved, by using the GetPsigStatus IIOP call. This call takes only one argument:
 - PsigId unique identifier (proxy_id) for PSIG proxy.

Transrating

There are 3 kinds of TR groups (defined in the IDL by the enum: eTR_GroupType):

- (Single TS) MPTS All services. TR group associated with a single TS. All services of that TS are automatically part of the TR group. There can only be one such a TR group associated with a TS.

- (Single TS) MPTS Selective services. TR group associated with a single TS. A sub set of output services can be part of the TR group. There can be mulitple TR groups of this type associated with the same output TS.
- Multi TS TR group. TR group associated with multiple SPTS (SPTS only, no MPTS allowed).

A TS can only be associated with 1 type of TR group (e.g. it is not possible to have a MPTS All Services and MPTS Selective Services TR group associated with the same output TS, or it is not possible that an output TS is associated with a MPTS selective services TR group while part of a Mulit TS TR group).

TR group Identification: A TR group is identified by a GroupID (TR_GroupID_t). All actions conserning TR groups must specify the Group ID to target the correct TR group.

(Single TS) MPTS All Services TR group:

- Create: TR_GroupAddL, TR_TS_AddL
- Delete: TR_GroupDeleteL
- Add new Services: When a service a added to the TS the service is automatically added to the TR group
- Remove Services: When a service is removed from the output the service is automaticaaly removed from the TR group There is no need to remove the output services from the TR group first when deleting the TR group.

(Single TS) MPTS Selective Services TR group:

- Create: TR_GroupAddL
- Delete: TR_GroupDeleteL
- Add output service to the TR group (Service must exist at the output): TR_ServiceAddL
- Remove existing output service from the TR group but not from the output TS: TR_ServiceDeleteL
Remove existing output service from the output TS: When a service is removed from the output TS the service is automatically removed from the TR group There is no need to remove the output services from the TR group first when deleting the TR group
- Create: TR_GroupAddL
- Delete: TR_GroupDeleteL
- Add SPTS (SPTS must exist at the output): TR_TS_AddL
- Remove SPTS from the TR group but not from the output: TR_TS_DeleteL
- Remove SPTS from the output: When a TS is removed from the output the TS is automatically removed from the TR group No need to remove the TS from the TR group before removal of the TR group itself

3 Deprecated List

Member **DCM::DeviceControl::ASI_DTF_Change** (in IPS_Ref_t RefPhys, in ASI_DTF_OutputTS-t OutputTS)

Obsoleted in release 6.0

Member [DCM::DeviceControl::ASI_DTF_GetKeyList](#) (in [IPS_Ref_t RefPhys](#))

Obsoleted in release 6.0

Member [DCM::DeviceControl::ASI_DTF_List_t](#)

Obsoleted by [ASI_DTF_ListEx_t](#) from release 6.0

Class [DCM::DeviceControl::ASI_DTF_OutputTS_t](#)

Obsoleted by [ASI_DTF_OutputTS_Ex_t](#) from release 6.0

Member [DCM::DeviceControl::ASI_DTF_OutTS_Get](#) (in [IPS_Ref_t RefPhys](#))

Obsoleted in release 6.0

Member [DCM::DeviceControl::ASI_DTF_ScramblingKeyList](#)

Obsoleted in release 6.0

Class [DCM::DeviceControl::ASI_DTF_ScramblingKeyPair_t](#)

Obsoleted in release 6.0

Member [DCM::DeviceControl::ASI_DTF_SetKeyList](#) (in [IPS_Ref_t RefPhys](#), in [ASI_DTF_ScramblingKeyList KeyList](#))

Obsoleted in release 6.0

Class [DCM::DeviceControl::ASI_DTF_t](#)

Obsoleted by [ASI_DTF_Ex_t](#) from release 6.0

Member [DCM::DeviceControl::BoardCfgGetL](#) (in unsigned short [BoardNumber](#), in [PortList_t PortList](#))

Use [BoardCfg_V2_GetL](#) instead.

Member [DCM::DeviceControl::BoardCfgSet](#) (in [BoardCfg_t BoardCfg](#))

Use [BoardCfg_V2_Set](#) instead.

Member [DCM::DeviceControl::CreateMCryptEis](#) (out unsigned long [EisId](#))

This call should not be used (replace by call [CreateEis](#))

Member [DCM::DeviceControl::CreateMCryptPsig](#) (out unsigned long [PsigId](#))

This call should not be used (replace by call [CreatePsig](#))

Member [DCM::DeviceControl::DeleteMCryptEis](#) (in unsigned long [EisId](#))

This call should not be used (replace by call [DeleteEis](#))

Member [DCM::DeviceControl::DeleteMCryptPsig](#) (in unsigned long [PsigId](#))

This call should not be used (replace by call [DeletePsig](#))

Member [DCM::DeviceControl::DescrCAM_CfgGetL](#) (in [IPS_Ref_t CamRef](#), out [DescrCAM_Cfg_List_t ConfigList](#))

Since release 12.0, use [DescrCAM_CfgGetL_V2](#) instead

Member [DCM::DeviceControl::DescrCAM_CfgSetL](#) (in unsigned short [BoardNr](#), in [DescrCAM_Cfg_List_t ConfigList](#))

Since release 12.0, use [DescrCAM_CfgSetL_V2](#) instead

Member [DCM::DeviceControl::DescrTS_GetL](#) (in unsigned short [BoardNr](#), in [IPS_RefTS_List_t RefTsList](#), out [DescrTS_Data_List_t TsDataList](#))

Since Release 12.0, use [DescrTS_GetL_V2](#) instead

Member [DCM::DeviceControl::DescrTS_SetL](#) (in unsigned short [BoardNr](#), in [DescrTS_Data_List_t TsDataList](#))

Since Release 12.0, user [DescrTS_SetL_V2](#) instead

Class [DCM::DeviceControl::DPI_SpliceRequestTime_t](#)

Obsoleted in release 11.0

Member [DCM::DeviceControl::DPI_SRT_Get](#) (in [IPS_Ref_t](#) RefPhys)

Obsoleted in release 11.0

Member [DCM::DeviceControl::DPI_SRT_Set](#) (in [IPS_Ref_t](#) RefPhys, in [DPI_SpliceRequestTime_t](#) SpliceRequestTime)

Obsoleted in release 11.0

Member [DCM::DeviceControl::eTimeBaseSelectionMode](#)

Use V2 structure instead

Member [DCM::DeviceControl::eTR_Delay](#)

This enum should not be used anymore since R5.01.

Member [DCM::DeviceControl::GetConnList](#) (in unsigned long EcmgId, out IdList ConnIds)

This call should not be used anymore since release 8.9 (replaced by call [GetEcmgConnList](#))

Member [DCM::DeviceControl::GetCwgConnConfig](#) (in unsigned long CwgId, in unsigned long - ConnId, out unsigned long IpAddress, out unsigned short Port, out unsigned short ChannelId, out long Priority)

This call should not be used anymore since release 10.10 (replaced by call [GetCwgConnConfig_V2](#))

Member [DCM::DeviceControl::GetDefaultTimeBaseSelectionMode](#) (in unsigned short Board-Number, out eTimeBaseSelectionMode TBS_Mode)

Since version 10.30, use [GetDefaultTBSMode_V2](#) instead

Member [DCM::DeviceControl::GetEcmgBackup](#) (in unsigned long EcmgId, out boolean Backup-Revertive, out long RevertTime, out boolean HotStandby)

This call should not be used on [DCM](#).

Member [DCM::DeviceControl::GetEcmgConfig](#) (in unsigned long EcmgId, out string Name, out eEcmgType EcmgType, out unsigned short CasId, out unsigned short SubCasId, out eEcmPidSource EcmPidSource, out unsigned short EcmPidLowerLimit, out unsigned short EcmPidUpperLimit, out eEcmgChannelIdMode EcmgChannelIdMode)

This call should not be used anymore since release 8.9 (replaced by call [GetEcmgConfig_V2](#))

Member [DCM::DeviceControl::GetEcmgConnConfig](#) (in unsigned long EcmgId, in unsigned long ConnId, out unsigned long IpAddress, out unsigned short Port, out unsigned short ChannelId, out long Priority)

This call should not be used anymore since release 10.10 (replaced by call [GetEcmgConnConfig_V2](#))

Member [DCM::DeviceControl::GetEcmgDescriptor](#) (in unsigned long EcmgId, in unsigned long - DescRuleId, out string DescRuleName, out eEcmgDescRuleType Type, out eDescInsertionLevel InsertionLevel, out string DescriptorData, out EcmIdList EcmIds)

This call should not be used anymore since release 8.1 (replaced by call [GetEcmgDescriptor_V2](#))

Member [DCM::DeviceControl::GetEisStatus](#) (in unsigned long EisId, out eConnectionState Eis-ConnectionState, out unsigned long ConnectionPeer)

This call should not be used anymore since release 10.10 (replaced by call [GetEisStatus_V2](#))

Member [DCM::DeviceControl::GetEmmgStatus](#) (in unsigned long EmmgId, out eConnectionState EmmgConnectionState, out unsigned long NoOfOpenStreams, out unsigned long Current-Bandwidth, out unsigned long ConnectionPeer)

This call should not be used anymore since release 10.10 (replaced by call [GetEmmgStatus_V2](#))

Member **DCM::DeviceControl::GetPsigStatus** (in unsigned long PsigId, out eConnectionState Psig-ConnectionState, out unsigned long NoOfStreams, out unsigned long CurrentBandwidth, out unsigned long ConnectionPeer)

This call should not be used anymore since release 10.10 (replaced by call GetPsigStatus_V2)

Member **DCM::DeviceControl::GetSettingsRestoreOptions** (out RestoreOptions options)

Use GetSettingsRestoreOptions_V2 instead

Member **DCM::DeviceControl::GetSI_Generation** (in IPS_RefTS_t OutRefTS, out Table-GenerationDataList_t TableSettings)

Member **DCM::DeviceControl::GetSystemType** (out eSystemType Type)

Deprecated since version 9.0, use GetSystemType_V2 instead

Member **DCM::DeviceControl::GetVideoClockSync** (in unsigned short SlotNumber, out boolean b-UseExtRef)

Member **DCM::DeviceControl::InTS_TimeBaseSelectionMode_List_t**

Use V2 structure instead

Class **DCM::DeviceControl::InTS_TimeBaseSelectionMode_t**

Use V2 structure instead

Member **DCM::DeviceControl::IPS_GBE_RatesGet** (in IPS_Ref_t RefPhys, out GbEStatistics_t -Stats)

Use IPS_GBE_RatesGetL instead.

Member **DCM::DeviceControl::IPS_GBE_StatisticsGet** (in IPS_Ref_t RefPhys, out GbEStatistics_t Stats)

Use IPS_GBE_StatisticsGetL instead.

Member **DCM::DeviceControl::SetCwgConnConfig** (in unsigned long CwgId, in unsigned long -ConnId, in unsigned long IpAddress, in unsigned short Port, in unsigned short ChannelId, in long Priority)

This call should not be used anymore since release 10.10 (replaced by call SetCwgConnConfig_V2)

Member **DCM::DeviceControl::SetDefaultTimeBaseSelectionMode** (in unsigned short Board-Number, in eTimeBaseSelectionMode TBS_Mode)

Since version 10.30, use SetDefaultTBSMode_V2 instead

Member **DCM::DeviceControl::SetDeviceAsBackup** (in boolean bIsBackup)

This call should not be used anymore since release 4.0. Instead, SetDeviceActiveMode should be used.

Member **DCM::DeviceControl::SetEcmgBackup** (in unsigned long EcmgId, in boolean Backup-Revertive, in long RevertTime, in boolean HotStandby)

This call should not be used on DCM.

Member **DCM::DeviceControl::SetEcmgConfig** (in unsigned long EcmgId, in string Name, in e-EcmgType EcmgType, in unsigned short CasId, in unsigned short SubCasId, in eEcmPidSource EcmPidSource, in unsigned short EcmPidLowerLimit, in unsigned short EcmPidUpperLimit, in eEcmgChannelIdMode EcmgChannelIdMode)

This call should not be used anymore since release 8.9 (replaced by call SetEcmgConfig_V2)

Member **DCM::DeviceControl::SetEcmgConnConfig** (in unsigned long EcmgId, in unsigned long -ConnId, in unsigned long IpAddress, in unsigned short Port, in unsigned short ChannelId, in long Priority)

This call should not be used anymore since release 10.10 (replaced by call SetEcmgConnConfig_V2)

Member **DCM::DeviceControl::SetEcmgDescriptor** (in unsigned long EcmgId, in unsigned long - DescRuleId, in string DescRuleName, in eEcmgDescRuleType Type, in eDescInsertionLevel - InsertionLevel, in string DescriptorData, in EcmIdList EcmIds)

This call should not be used anymore since release 8.1 (replaced by call SetEcmgDescriptor_V2)

Member **DCM::DeviceControl::SetSettingsRestoreOptions** (in RestoreOptions options)

Use SetSettingsRestoreOptions_V2

Member **DCM::DeviceControl::SetVideoClockSync** (in unsigned short SlotNumber, in boolean b- UseExtRef)

Class **DCM::DeviceControl::TC_Video_t**

The types TC_VideoDecode_t and TC_VideoEncode_t should be used instead of this type.

Member **DCM::DeviceControl::TC_VideoCfgDeleteL** (in unsigned short BoardNr, in TC_Service- TrackingID_List_t ToDelete)

Use TC_VideoDecodeCfgDeleteL(..) and TC_VideoEncodeCfgDeleteL(..) instead.

Member **DCM::DeviceControl::TC_VideoCfgGetL** (in unsigned short BoardNr, in IPS_Service_- List_t ServiceList, out TC_VideoCfgList_t VideoCfgList)

Use TC_VideoDecodeCfgGetL(..) and TC_VideoEncodeCfgGetL(..) instead.

Member **DCM::DeviceControl::TC_VideoCfgSetL** (in unsigned short BoardNr, in TC_VideoCfg- List_t VideoCfgList)

Use TC_VideoDecodeCfgSetL(..) and TC_VideoEncodeCfgSetL(..) instead.

Class **DCM::DeviceControl::TC_VideoSettings_t**

The types TC_VideoEncodeSettings_t, TC_VideoDecode_t and TC_VideoEncode_t should be used instead of this type and TC_Video_t.

Member **DCM::DeviceControl::TimeBaseSelectionMode_GetL** (in IPS_Ref_t RefPhys, in IPS_Ref- TS_List_t RefTsList, out InTS_TimeBaseSelectionMode_List_t TBS_List)

Since version 10.30, use TimeBaseSelectionMode_V2_GetL instead

Member **DCM::DeviceControl::TimeBaseSelectionMode_SetL** (in IPS_Ref_t RefPhys, in InTS_- TimeBaseSelectionMode_List_t TBS_List)

Since version 10.30, use TimeBaseSelectionMode_V2_SetL instead

Class **DCM::DeviceControl::TimeBaseSelectionMode_t**

Use V2 structure instead

Member **DCM::DeviceControl::TR_GetBoardDelay** (in IPS_Ref_t RefPhys, out eTR_Delay TR_- Delay)

This call should not be used anymore since R5.01 (replaced by call TR_GetBoardDelayExtend)

Member **DCM::DeviceControl::TR_GetBoardDelayExtend** (in IPS_Ref_t RefPhys, out TR_Delay- Mode_t TR_Delay)

This call should not be used anymore since R08.09 (replaced by call TR_SetBoardDelayExtend_V2)

Member **DCM::DeviceControl::TR_SetBoardDelay** (in IPS_Ref_t RefPhys, in eTR_Delay TR_- Delay)

This call should not be used anymore since R5.01 (replaced by call TR_SetBoardDelayExtend)

Member **DCM::DeviceControl::TR_SetBoardDelayExtend** (in IPS_Ref_t RefPhys, in TR_Delay- Mode_t TR_Delay)

This call should not be used anymore since R08.09 (replaced by call TR_GetBoardDelayExtend_V2)

Group **IGMPv2**

Use the IGMPv3 calls, they also support IGMP protocol v2 (use Exclude filter with no members). These calls are scheduled for removal in v6.00

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4.1 Modules

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7 File Index

7.1 File List

Here is a list of all files with brief descriptions:

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8 Module Documentation

8.1 Time management

This groups functions and compounds about time.

Classes

- struct [DCM::DeviceControl::Time](#)
Structure to supply date and time information.
- struct [DCM::DeviceControl::NTP_Stats_t](#)
- struct [DCM::DeviceControl::NTP_Info_t](#)
- struct [DCM::DeviceControl::Table_Sync_Info_t](#)
Structure defining the parameters for time sync via SI table acquisition.

Typedefs

- typedef sequence< string > [DCM::DeviceControl::IP_List_t](#)
- typedef sequence< NTP_Info_t > [DCM::DeviceControl::NTP_Info_List_t](#)
- typedef sequence< Table_Sync_Info_t > [DCM::DeviceControl::Table_Sync_Info_List_t](#)
A list of [Table_Sync_Info_t](#) entries.

Enumerations

- enum [DCM::DeviceControl::eClock_Sync_Type](#) { [DCM::DeviceControl::eClock_Sync_Type_Disabled](#), [DCM::DeviceControl::eClock_Sync_Type_NTP](#), [DCM::DeviceControl::eClock_Sync_Type_DayTime](#) }
Synchronization types.
- enum [DCM::DeviceControl::eClock_Sync_Type_V2](#) { [DCM::DeviceControl::eClock_Sync_Type_Disabled_V2](#), [DCM::DeviceControl::eClock_Sync_Type_NTP_V2](#), [DCM::DeviceControl::eClock_Sync_Type_DayTime_V2](#), [DCM::DeviceControl::eClock_Sync_Type_SI_Table_V2](#), [DCM::DeviceControl::eClock_Sync_Type_Reserved1](#), [DCM::DeviceControl::eClock_Sync_Type_Reserved2](#), [DCM::DeviceControl::eClock_Sync_Type_Reserved3](#) }
Synchronization types.
- enum [DCM::DeviceControl::eNTP_TallyCodes](#) { [DCM::DeviceControl::eNTP_TC_SpaceReject](#), [DCM::DeviceControl::eNTP_TC_FalseTick](#), [DCM::DeviceControl::eNTP_TC_Excess](#), [DCM::DeviceControl::eNTP_TC_Outlyer](#), [DCM::DeviceControl::eNTP_TC_Selected](#), [DCM::DeviceControl::eNTP_TC_SysPeer](#), [DCM::DeviceControl::eNTP_TC_PPSPeer](#), [DCM::DeviceControl::eNTP_TC_Candidat](#) }
- enum [DCM::DeviceControl::eNTP_RefClockTypes](#) { [DCM::DeviceControl::eNTP_RCT_Local](#), [DCM::DeviceControl::eNTP_RCT_Unicast](#), [DCM::DeviceControl::eNTP_RCT_Broadcast](#), [DCM::DeviceControl::eNTP_RCT_Multicast](#), [DCM::DeviceControl::eNTP_RCT_Invalid](#) }

Functions

- void [DCM::DeviceControl::SetSynchronizationType](#) (in [eClock_Sync_Type](#) Type) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)
Set the synchronization type.

- void `DCM::DeviceControl::SetSynchronizationType_V2` (in `eClock_Sync_Type_V2` Type) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)
Set the synchronization type.
- void `DCM::DeviceControl::GetSynchronizationType` (out `eClock_Sync_Type` Type) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the synchronization type.
- void `DCM::DeviceControl::GetSynchronizationType_V2` (out `eClock_Sync_Type_V2` Type) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the synchronization type.
- void `DCM::DeviceControl::SetClock` (in Time CurrentTime, in long OffsetMinutes) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)
Set date, time and timezone.
- void `DCM::DeviceControl::SetClock2` (in Time CurrentTime, in string TimeZone) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)
Set date and time.
- Time `DCM::DeviceControl::GetClock` () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get system date and time in the GMT timezone.
- void `DCM::DeviceControl::GetClock2` (out Time CurrentTime, out string Timezone) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get system date, time and timezone.
- void `DCM::DeviceControl::SetNTPServers` (in `IP_List_t` IPAddresses) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)
Set the list of NTP servers to be used by DCM.
- void `DCM::DeviceControl::GetNTPServers` (out `IP_List_t` IPAddresses) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the list of NTP servers in use by DCM.
- `NTP_Info_List_t` `DCM::DeviceControl::GetNTPStatistics` () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the NTP statistics.
- void `DCM::DeviceControl::SetTableTimeSync` (in unsigned long MonitoringInterval, in `Table_Sync_Info_List_t` SyncList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the necessary parameters for time sync using SI table acquisition and syncs the time.
- void `DCM::DeviceControl::GetTableTimeSync` (out unsigned long MonitoringInterval, out `Table_Sync_Info_List_t` SyncList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the parameters used for time sync via SI table acquisition.
- void `DCM::DeviceControl::SyncNowOnTimeTable` () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Will force an immediate time sync by starting immediate acquisition of the configured SI Table.

8.1.1 Detailed Description

This groups functions and compounds about time.

8.1.2 Typedef Documentation

8.1.2.1 typedef sequence<string> DCM::DeviceControl::IP_List_t

Definition at line 640 of file DCM.idl.

8.1.2.2 typedef sequence<NTP_Info_t> DCM::DeviceControl::NTP_Info_List_t

Definition at line 710 of file DCM.idl.

8.1.2.3 typedef sequence<Table_Sync_Info_t> DCM::DeviceControl::Table_Sync_Info_List_t

A list of [Table_Sync_Info_t](#) entries.

Only lists with one item will be supported in first release !!

Definition at line 747 of file DCM.idl.

8.1.3 Enumeration Type Documentation

8.1.3.1 enum DCM::DeviceControl::eClock_Sync_Type

Synchronization types.

Note

On DCM you can either disable clock synchronization or you can configure NTP clock synchronization. The synchronization type `eClock_Sync_Type_DayTime` is no longer supported. Do not pass this synchronization type to [SetSynchronizationType\(\)](#) !

Enumerator:

eClock_Sync_Type_Disabled
eClock_Sync_Type_NTP
eClock_Sync_Type_DayTime

Definition at line 474 of file DCM.idl.

8.1.3.2 enum DCM::DeviceControl::eClock_Sync_Type_V2

Synchronization types.

On DCM you can:

- disable clock synchronization or
- configure NTP clock synchronization or
- configure clock synchronization using SI tables.

The synchronization type `eClock_Sync_Type_DayTime_V2` is not supported. Do not pass this synchronization type to one of the [SetSynchronizationType\(\)](#) functions!

Enumerator:

eClock_Sync_Type_Disabled_V2
eClock_Sync_Type_NTP_V2
eClock_Sync_Type_DayTime_V2 not supported
eClock_Sync_Type_SI_Table_V2
eClock_Sync_Type_Reserved1 not supported yet
eClock_Sync_Type_Reserved2 not supported yet
eClock_Sync_Type_Reserved3 not supported yet

Definition at line 492 of file DCM.idl.

8.1.3.3 enum DCM::DeviceControl::eNTP_RefClockTypes

Enumerator:

eNTP_RCT_Local
eNTP_RCT_Unicast
eNTP_RCT_Broadcast
eNTP_RCT_Multicast
eNTP_RCT_Invalid

Definition at line 681 of file DCM.idl.

8.1.3.4 enum DCM::DeviceControl::eNTP_TallyCodes

Enumerator:

eNTP_TC_SpaceReject The peer is discarded as unreachable, synchronized to this server (synch loop) or outrageous synchronization distance.
eNTP_TC_FalseTick The peer is discarded by the intersection algorithm as a falseticker.
eNTP_TC_Excess The peer is discarded as not among the first ten peers sorted by synchronization distance.
eNTP_TC_Outlier The peer is discarded by the clustering algorithm as an outlier.
eNTP_TC_Selected The peer is a survivor, but not among the first six peers sorted by synchronization distance.
eNTP_TC_SysPeer The peer has been declared the system peer and lends its variables to the system variables.
eNTP_TC_PPSPeer The peer has been declared the system peer and lends its variables to the system variables.
eNTP_TC_Candidat The peer is a survivor and a candidate for the combining algorithm.

Definition at line 669 of file DCM.idl.

8.1.4 Function Documentation

8.1.4.1 Time DCM::DeviceControl::GetClock () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get system date and time in the GMT timezone.

Returns

Returns the current system date and time.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.1.4.2 void DCM::DeviceControl::GetClock2 (out Time *CurrentTime*, out string *Timezone*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get system date, time and timezone.

Parameters

out	<i>CurrentTime</i>	Current system date and time in local timezone.
out	<i>Timezone</i>	Current timezone.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.1.4.3 void DCM::DeviceControl::GetNTPServers (out IP_List_t *IPAddresses*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of NTP servers in use by DCM.

Parameters

out	<i>IPAddresses</i>	IP addresses of NTP servers.
-----	--------------------	------------------------------

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.1.4.4 NTP_Info_List_t DCM::DeviceControl::GetNTPStatistics () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the NTP statistics.

Returns

NTP_Info_List_t List with statistics per server, including the local clock (127.127.1.0).

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	If communication with the NTP server fails.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

Note

For more information about NTP, see also
[The NTP Project](#)

8.1.4.5 void DCM::DeviceControl::GetSynchronizationType (out eClock_Sync_Type Type) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the synchronization type.

Returns

Type The synchronization method currently in use.

Exceptions

<i>Timeout</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	in case: • an internal error occurs (e.g. DCM fails to read the file in which this setting is persistently stored). • current synchronization type is one of the types defined by eClock_Sync_Type_V2 which has no corresponding type defined by eClock_Sync_Type, e.g. eClock_Sync_Type_SI_Table_V2.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.1.4.6 void DCM::DeviceControl::GetSynchronizationType_V2 (out eClock_Sync_Type_V2 Type) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the synchronization type.

Returns

Type The synchronization method currently in use.

Exceptions

<i>Timeout</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	in case: • an internal error occurs (e.g. DCM fails to read the file in which this setting is persistently stored).
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.1.4.7 void DCM::DeviceControl::GetTableTimeSync (out unsigned long MonitoringInterval, out Table_Sync_Info_List_t SyncList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the parameters used for time sync via SI table acquisition.

Parameters

out	<i>Monitoring-Interval</i>	Specified the time between 2 updates of the system clock in seconds.
out	<i>SyncList</i>	Only one entry supported now. Provides info on the SI table to be used.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OutOfRange</i>	Never thrown.

8.1.4.8 void DCM::DeviceControl::SetClock (in Time *CurrentTime*, in long *OffsetMinutes*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Set date, time and timezone.

Parameters

in	<i>CurrentTime</i>	New time, specified in current timezone.
in	<i>OffsetMinutes</i>	New offset in minutes between local time zone and GMT. Range: -14 * 60 12 * 60. Must be a multiple of 60 minutes.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	• One or more elements of CurrentTime is out of range. • OffsetMinutes is out of range.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OutOfRange</i>	Never thrown.

8.1.4.9 void DCM::DeviceControl::SetClock2 (in Time *CurrentTime*, in string *TimeZone*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Set date and time.

Parameters

in	<i>CurrentTime</i>	New time, specified in current timezone.
in	<i>TimeZone</i>	New timezone name. Two different formats are allowed • <Continent>/<City>, e.g. Europe/Brussels. • <std><offset>[<dst>[<offset>]][,<rule>], e.g. "EST5:00ED-T,M3.2.0,M11.1.0" for Ottawa.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	One or more elements of CurrentTime is out of range.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OutOfRange</i>	Never thrown.

See also

See also The [Open](#) Group Base Specifications Issue 6, IEEE Std 1003.1, [8.3 Other Environment Variables, TZ variable.](#) for more information on the syntax of the timezone string.

8.1.4.10 void DCM::DeviceControl::SetNTPServers (in IP_List_t IPAddresses) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Set the list of NTP servers to be used by DCM.

Parameters

in	<i>IPAddresses</i>	IP addresses of NTP servers.
----	--------------------	------------------------------

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Address list is empty.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OutOfRange</i>	Never thrown.

8.1.4.11 void DCM::DeviceControl::SetSynchronizationType (in eClock_Sync_Type Type) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Set the synchronization type.

Parameters

in	<i>Type</i>	Specifies the synchronization method to use.
----	-------------	--

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	in case an internal error occurs (e.g. DCM fails to write to file in which this setting is persistently stored).
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OutOfRange</i>	Never thrown.

Note

eClock_Sync_Type_DayTime is no longer supported.

8.1.4.12 void DCM::DeviceControl::SetSynchronizationType_V2 (in eClock_Sync_Type_V2 *Type*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Set the synchronization type.

Parameters

in	<i>Type</i>	Specifies the synchronization method to use.
----	-------------	--

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	in case an internal error occurs (e.g. DCM fails to write to file in which this setting is persistently stored).
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OutOfRange</i>	Never thrown.

Note

eClock_Sync_Type_DayTime_V2 is not supported.

8.1.4.13 void DCM::DeviceControl::SetTableTimeSync (in unsigned long *MonitoringInterval*, in Table_Sync_Info_List_t *SyncList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the necessary parameters for time sync using SI table acquisition and syncs the time.

Parameters

in	<i>Monitoring-Interval</i>	Specifies the time between 2 updates of the system clock in seconds.
in	<i>SyncList</i>	Only one entry supported now. Provides info on the SI table to be used.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Invalid MonitoringInterval or Table_Sync_Info parameters supplied.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OutOfRange</i>	Never thrown.

8.1.4.14 void DCM::DeviceControl::SyncNowOnTimeTable () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Will force an immediate time sync by starting immediate acquisition of the configured SI Table.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	When the clock sync type is not equal to eClock_Sync_Type_SI_Table_V2
<i>OpNotAllowed</i>	Not logged on.

<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OutOfRange</i>	Never thrown.

8.2 Client coordinator functions

Methods and compounds used to register/ unregister the clients.

Classes

- struct [DCM::DeviceControl::NotifData_t](#)

Typedefs

- typedef sequence< [NotifData_t](#) > [DCM::DeviceControl::NotifList_t](#)

Enumerations

- enum [DCM::DeviceControl::ClientType](#) { [DCM::DeviceControl::Client_Gui](#), [DCM::DeviceControl::Client_Mgmt](#), [DCM::DeviceControl::Client_SIServer](#), [DCM::DeviceControl::Client_Front](#) }
- *The different client types.*
- enum [DCM::DeviceControl::eSystemStartup](#) { [DCM::DeviceControl::eSystemStartup_NotReady](#), [DCM::DeviceControl::eSystemStartup_Ready](#) }

Functions

- void [DCM::DeviceControl::LogOn](#) (in [ClientType](#) Type, in string ClientName, in string Password, in string SecurityKey, out long ClientUniqueNumber) raises (MaxClientsReached, Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Log on, needed to perform most of the operations.
- void [DCM::DeviceControl::LogOnForNotif](#) (in long ClientUniqueNumber) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Log on to the notification channel, needed to receive notifications.
- void [DCM::DeviceControl::LogOnForNotif2](#) (in long ClientUniqueNumber) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Second version of [LogOnForNotif\(\)](#): [LogOnForNotif2](#).
- void [DCM::DeviceControl::LogOnForNotif3](#) (in long ClientUniqueNumber, in ByteStream Object-Key) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Third version of [LogOnForNotif\(\)](#): [LogOnForNotif3](#).
- void [DCM::DeviceControl::Register](#) (in string ClientName, in string NotificationName) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Register for a notification.
- void [DCM::DeviceControl::UnRegister](#) (in string ClientName, in string NotificationName) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Unregister for a notification (see [Register\(\)](#)).
- void [DCM::DeviceControl::GetNotifList](#) (out [NotifList_t](#) NotifList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the list of available notifications.
- void [DCM::DeviceControl::LogOff](#) (in string ClientName) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Log off, stop being able to perform most of the operations.
- void [DCM::DeviceControl::IsAlive](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Check whether application is reachable via IIOP.

- `eSystemStartup DCM::DeviceControl::IsSystemReady ()` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Check whether application is started up completely.

- `unsigned long DCM::DeviceControl::GetUptime ()` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Return the System Uptime, this is the total running time since manufacture of the chassis.

- `void DCM::DeviceControl::GetSystemType (out eSystemType Type)` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Make difference between possible applications running on the DCM platform.

- `void DCM::DeviceControl::GetSystemType_V2 (out eSystemType_V2 Type)` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Make difference between possible applications running on the DCM platform.

- `void DCM::DeviceControl::GetDeviceType (out eDeviceType Type)` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Make difference between possible device types.

- `void DCM::DeviceControl::IdentifyMe (in long Duration)` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Make it possible to identify a DCM by the LEDs.

8.2.1 Detailed Description

Methods and compounds used to register/ unregister the clients.

8.2.2 Typedef Documentation

8.2.2.1 `typedef sequence<NotifData_t> DCM::DeviceControl::NotifList_t`

Definition at line 960 of file DCM.idl.

8.2.3 Enumeration Type Documentation

8.2.3.1 `enum DCM::DeviceControl::ClientType`

The different client types.

Enumerator:

Client_Gui

Client_Mgmt Identifies a mgmt system (should be able to receive messages)

Client_SIServer

Client_Front

Definition at line 814 of file DCM.idl.

8.2.3.2 enum DCM::DeviceControl::eSystemStartup

Enumerator:

eSystemStartup_NotReady

eSystemStartup_Ready

Definition at line 823 of file DCM.idl.

8.2.4 Function Documentation

8.2.4.1 void DCM::DeviceControl::GetDeviceType (out eDeviceType *Type*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Make difference between possible device types.

Parameters

out	<i>Type</i>	of the device
-----	-------------	---------------

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	in case of A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	Never thrown.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OperationFailed</i>	

Version

Supported since release 9.0

8.2.4.2 void DCM::DeviceControl::GetNotifList (out NotifList_t *NotifList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of available notifications.

Parameters

out	<i>NotifList</i>	list of available notifications.
-----	------------------	----------------------------------

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	Internal error.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.2.4.3 void DCM::DeviceControl::GetSystemType (out eSystemType *Type*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Make difference between possible applications running on the DCM platform.

Parameters

out	<i>Type</i>	of the currently running application.
-----	-------------	---------------------------------------

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	in case of A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	Never thrown.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

Deprecated Deprecated since version 9.0, use GetSystemType_V2 instead

8.2.4.4 void DCM::DeviceControl::GetSystemType_V2 (out eSystemType_V2 *Type*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Make difference between possible applications running on the DCM platform.

Parameters

out	<i>Type</i>	of the currently running application.
-----	-------------	---------------------------------------

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	in case of A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	Never thrown.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OperationFailed</i>	

Version

Supported since release 9.0

8.2.4.5 unsigned long DCM::DeviceControl::GetUptime () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Return the System Uptime, this is the total running time since manufacture of the chassis.

Returns

unsigned long time in hours

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	Thrown if there is a problem with the reading of the EEPROM
<i>OpNotAllowed</i>	Thrown if this call is not supported in the running software version and the call was made when not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OperationFailed</i>	Thrown when an error occurs while reading the EEPROM, the message will contain the error

Version

Supported since release 10.0

Note

This call is only supported on D9902 devices

8.2.4.6 void DCM::DeviceControl::IdentifyMe (in long *Duration*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Make it possible to identify a [DCM](#) by the LEDs.

Parameters

in	<i>Duration</i>	number of seconds that the IdentifyMe mode should be active
----	-----------------	---

Exceptions

<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Never thrown.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.2.4.7 void DCM::DeviceControl::IsAlive () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Check whether application is reachable via IIOP.

This call can be made when not logged on.

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Thrown if this call is not supported in the running software version and the call was made when not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.2.4.8 eSystemStartup DCM::DeviceControl::IsSystemReady () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Check whether application is started up completely.

This is added for management systems that only want to log on when the system is started up completely to avoid startup effects like boards not present yet. This call can be made when not logged on.

Returns

eSystemStartup the current startup state

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Thrown if this call is not supported in the running software version and the call was made when not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.2.4.9 void DCM::DeviceControl::LogOff (in string *ClientName*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Log off, stop being able to perform most of the operations.

Parameters

in	<i>ClientName</i>	(not used anymore).
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Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.2.4.10 void DCM::DeviceControl::LogOn (in ClientType *Type*, in string *ClientName*, in string *Password*, in string *SecurityKey*, out long *ClientUniqueNumber*) raises (MaxClientsReached, TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Log on, needed to perform most of the operations.

Parameters

in	<i>Type</i>	type of client (use always Client_Gui).
in	<i>ClientName</i>	
in	<i>Password</i>	
in	<i>SecurityKey</i>	(not used).
out	<i>ClientUnique-Number</i>	can be used to identify this client.

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	in case of • A timeout occurred during IIOP processing. • Invalid parameters.
<i>OpNotAllowed</i>	Already logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>MaxClientsReached</i>	No more free connections left.

Note

failure in this request causes the connection to be ended.

For version prior to v08.05, username "guest", password "guest" always worked. For v08.05 and above, use one of the OS accounts that have IIOP access.

8.2.4.11 void DCM::DeviceControl::LogOnForNotif (in long *ClientUniqueNumber*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Log on to the notification channel, needed to receive notifications.

Parameters

in	<i>ClientUnique-Number</i>	now used to specify the portnumber for receiving notifications, originally, this was used to link the notification channel to the request channel.
----	----------------------------	--

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	in case of • A timeout occurred during IIOP processing. • Invalid parameters.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

Note

failure in this request causes the connection to be ended.

original version of LogOnForNotif:

- new connection for each notification
- notifications don't contain an object key

8.2.4.12 void DCM::DeviceControl::LogOnForNotif2 (in long *ClientUniqueNumber*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Second version of [LogOnForNotif\(\)](#): LogOnForNotif2.

Parameters

in	<i>ClientUnique-Number</i>	now used to specify the portnumber for receiving notifications, originally, this was used to link the notification channel to the request channel.
----	----------------------------	--

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	in case of • A timeout occurred during IIOP processing. • Invalid parameters.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

Note

failure in this request causes the connection to be ended.

second version of LogOnForNotif:

- fixed tcp-connection for sending over notifications (issue seen in DCCM with multiple connections)
- notifications don't contain an object key

originally put in for internal notifications in DCM

8.2.4.13 void DCM::DeviceControl::LogOnForNotif3 (in long *ClientUniqueNumber*, in ByteStream *ObjectKey*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Third version of [LogOnForNotif\(\)](#): LogOnForNotif3.

Parameters

in	<i>ClientUnique-Number</i>	now used to specify the portnumber for receiving notifications, originally, this was used to link the notification channel to the request channel.
in	<i>ObjectKey</i>	object key expected in the notification.

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	in case of • A timeout occurred during IIOP processing. • Invalid parameters.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

Note

failure in this request causes the connection to be ended.

second version of LogOnForNotif:

- fixed tcp-connection for sending over notifications (issue seen in DCCM with multiple connections)
- notifications contain an object key, specified in this operation

originally put in for sending notifications to an omniORB notification server

8.2.4.14 void DCM::DeviceControl::Register (in string *ClientName*, in string *NotificationName*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Register for a notification.

A notification will always be sent to all registered clients, except when the notification is triggered by an IDL-operation, in which case the caller won't receive the notification

Parameters

in	<i>ClientName</i>	(not used anymore).
in	<i>Notification-Name</i>	name of the notification that the client would like to receive.

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	in case of • A timeout occurred during IIOP processing. • unknown notification.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.2.4.15 void DCM::DeviceControl::UnRegister (in string *ClientName*, in string *NotificationName*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Unregister for a notification (see [Register\(\)](#)).

Parameters

in	<i>ClientName</i>	(not used anymore).
in	<i>Notification-Name</i>	name of the notification that the client would like to stop receiving.

Exceptions

<i>TimeOut</i>	Never thrown.
<i>OpNotSucceeded</i>	in case of • A timeout occurred during IIOP processing. • unknown notification.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.3 SNMP specific

Classes

- struct [DCM::DeviceControl::TrapDestination](#)
SNMP trap destination settings.
- struct [DCM::DeviceControl::SNMPCommunity](#)
SNMP read or write community settings.

Typedefs

- typedef sequence< [TrapDestination](#) > [DCM::DeviceControl::TrapDestinationList](#)
A sequence of [TrapDestination](#) entries.
- typedef sequence< [SNMPCommunity](#) > [DCM::DeviceControl::SNMPCommunityList](#)
A sequence of [SNMPCommunity](#) entries.
- typedef sequence< string > [DCM::DeviceControl::IPAddressList](#)
SNMP host access restrictions (actually a list of strings.).

Enumerations

- enum [DCM::DeviceControl::SNMPOperationRights](#) { [DCM::DeviceControl::SNMP_ReadOnly](#), [DCM::DeviceControl::SNMP_ReadWrite](#) }
SNMP permission settings.

Functions

- [TrapDestinationList](#) [DCM::DeviceControl::GetSNMPTrapDest](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the list of SNMP trap destinations.
- void [DCM::DeviceControl::AddSNMPTrapDest](#) (in [TrapDestination](#) Destination) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Either add a new or modify an existing SNMP trap destination.
- void [DCM::DeviceControl::RemoveSNMPTrapDest](#) (in string IPAddress) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Remove the specified SNMP trap destination.
- [SNMPCommunityList](#) [DCM::DeviceControl::GetSNMPCommunities](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get all configured SNMP communities.
- void [DCM::DeviceControl::AddSNMPCommunity](#) (in [SNMPCommunity](#) Community) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)
Add a new SNMP community or modify an existing SNMP community.
- void [DCM::DeviceControl::RemoveSNMPCommunity](#) (in string Community) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)
Remove one SNMP Community entry.
- void [DCM::DeviceControl::SetSNMP_MystroTrapsEnabled](#) (in boolean bEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)
Enable/Disable sending of Mystro MIB traps (addservice etc)
- void [DCM::DeviceControl::GetSNMP_MystroTrapsEnabled](#) (out boolean bEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Query whether sending of Mystro MIB traps is enabled.

8.3.1 Typedef Documentation

8.3.1.1 typedef sequence<string> DCM::DeviceControl::IPAddressList

SNMP host access restrictions (actually a list of strings.).

Definition at line 1214 of file DCM.idl.

8.3.1.2 typedef sequence<SNMPCommunity> DCM::DeviceControl::SNMPCommunityList

A sequence of [SNMPCommunity](#) entries.

Definition at line 1170 of file DCM.idl.

8.3.1.3 typedef sequence<TrapDestination> DCM::DeviceControl::TrapDestinationList

A sequence of [TrapDestination](#) entries.

Definition at line 1119 of file DCM.idl.

8.3.2 Enumeration Type Documentation

8.3.2.1 enum DCM::DeviceControl::SNMPOperationRights

SNMP permission settings.

Enumerator:

SNMP_ReadOnly

SNMP_ReadWrite

Definition at line 1156 of file DCM.idl.

8.3.3 Function Documentation

8.3.3.1 void DCM::DeviceControl::AddSNMPCommunity (in SNMPCommunity *Community*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Add a new SNMP community or modify an existing SNMP community.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OutOfRange</i>	Thrown if the community string is empty or if another value has been specified for the community rights than SNMP_ReadOnly or SNMP_ReadWrite.

8.3.3.2 void DCM::DeviceControl::AddSNMPTrapDest (in TrapDestination *Destination*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Either add a new or modify an existing SNMP trap destination.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.3.3.3 void DCM::DeviceControl::GetSNMP_MystroTrapsEnabled (out boolean *bEnabled*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Query whether sending of Mystro MIB traps is enabled.

Parameters

out	<i>bEnabled</i>	The return value.
-----	-----------------	-------------------

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.3.3.4 SNMPCommunityList DCM::DeviceControl::GetSNMPCommunities () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get all configured SNMP communities.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.3.3.5 TrapDestinationList DCM::DeviceControl::GetSNMPTrapDest () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of SNMP trap destinations.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.3.3.6 void DCM::DeviceControl::RemoveSNMPCommunity (in string *Community*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Remove one SNMP Community entry.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Thrown if the specified community was not added before via AddSNMP-Community() .
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OutOfRange</i>	Thrown if the community string is empty or if another value has been specified for the community rights than SNMP_ReadOnly or SNMP_ReadWrite.

8.3.3.7 void DCM::DeviceControl::RemoveSNMPTrapDest (in string *IPAddress*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove the specified SNMP trap destination.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	There was no trap destination for <i>IPAddress</i> configured.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.

8.3.3.8 void DCM::DeviceControl::SetSNMP_MystroTrapsEnabled (in boolean *bEnabled*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Enable/Disable sending of Mistro MIB traps (addservice etc)

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	Never thrown.
<i>OpNotAllowed</i>	Not logged on.
<i>OpNotSupported</i>	Thrown if this call is not supported in the running software version.
<i>OutOfRange</i>	Never thrown.

8.4 General board configuration calls

Board functionality - used to retrieve Board information.

Classes

- struct `DCM::DeviceControl::VersionParts`
Version number information.
- struct `DCM::DeviceControl::VersionInfo`
Version info.
- struct `DCM::DeviceControl::BoardIdentification`
Information data as returned by `GetSystemId()`.
- struct `DCM::DeviceControl::UniqueDeviceId_t`

Typedefs

- typedef sequence< VersionInfo > `DCM::DeviceControl::VersionInfoList`
A sequence of `VersionInfo`.
- typedef sequence< BoardIdentification > `DCM::DeviceControl::BoardIdentificationList`
- typedef sequence< UniqueDeviceId_t > `DCM::DeviceControl::UniqueDeviceIdList_t`
A sequence of `UniqueDeviceIdList` entries.

Enumerations

- enum `DCM::DeviceControl::PresenceStatus` { `DCM::DeviceControl::NotPresent`, `DCM::DeviceControl::Present`, `DCM::DeviceControl::Present_Not_Initialized`, `DCM::DeviceControl::Present_Error` }
Possible values `IsBoardPresent()` can return.
- enum `DCM::DeviceControl::eRebootType` { `DCM::DeviceControl::WarmReboot`, `DCM::DeviceControl::ColdReboot`, `DCM::DeviceControl::CleanReboot` }
Possible options to Reboot the DCM.

Functions

- BoardIdentification `DCM::DeviceControl::GetSystemId ()` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the system version information.
- void `DCM::DeviceControl::SetSystemName` (in string Name) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the system unit name.
- long `DCM::DeviceControl::GetNbrOfSlots ()` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the number of boards that a device can have, including mainboard.
- PresenceStatus `DCM::DeviceControl::IsBoardPresent` (in long SlotNbr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Measure the presence of a board on a particular board location the SlotNbr ranges from 1 to NbrOfSlots.
- BoardIdentification `DCM::DeviceControl::GetBoardId` (in long SlotNbr) raises (Timeout, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the boardtype information This call returns input, output, processor, etc.

- BoardIdentificationList [DCM::DeviceControl::GetBoardIdExt](#) (in long SlotNbr) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the extended boardtype information This call returns a list of BoardIdentifications: input, output, processor, etc.
- void [DCM::DeviceControl::GetUniqueDeviceId](#) (in unsigned short BoardNr, out UniqueDeviceIdList_t UniqueDeviceIdList) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the unique device identity information This call returns information which can be shown on the GUI.
- void [DCM::DeviceControl::SetUserName](#) (in long SlotNbr, in string UserName) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the user-defined name of a board.
- void [DCM::DeviceControl::RebootDCM](#) (in IPS_Ref_t RefPhys, in eRebootType RebootType) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Reboot the [DCM](#) or a board Single board reboots are only supported for active IP Adapter Video cards.

8.4.1 Detailed Description

Board functionality - used to retrieve Board information.

8.4.2 Typedef Documentation

8.4.2.1 typedef sequence<BoardIdentification> DCM::DeviceControl::BoardIdentificationList

Definition at line 1291 of file DCM.idl.

8.4.2.2 typedef sequence<UniqueDeviceId_t> DCM::DeviceControl::UniqueDeviceIdList_t

A sequence of UniqueDeviceIdList entries.

Definition at line 1300 of file DCM.idl.

8.4.2.3 typedef sequence<VersionInfo> DCM::DeviceControl::VersionInfoList

A sequence off [VersionInfo](#).

Definition at line 1278 of file DCM.idl.

8.4.3 Enumeration Type Documentation

8.4.3.1 enum DCM::DeviceControl::eRebootType

Possible options to Reboot the DCM.

Enumerator:

WarmReboot All settings remain intact.

ColdReboot All settings cleared except IP address and licenses.

CleanReboot All settings cleared included Ip address and licenses.

Definition at line 1437 of file DCM.idl.

8.4.3.2 enum DCM::DeviceControl::PresenceStatus

Possible values [IsBoardPresent\(\)](#) can return.

Enumerator:

NotPresent

Present

Present_Not_Initialized

Present_Error

Definition at line 1252 of file DCM.idl.

8.4.4 Function Documentation

8.4.4.1 BoardIdentification DCM::DeviceControl::GetBoardId (in long *SlotNbr*) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the boardtype information This call returns input, output, processor, etc.

in [BoardIdentification](#) format.

Parameters

in	<i>SlotNbr</i>	[1..(Number of available slots returned by GetNbrOfSlots)]
----	----------------	--

Returns

Requested board information

Exceptions

<i>OpNotSucceeded</i>	in case of internal error
<i>OutOfRange</i>	in case an invalid <i>SlotNbr</i> is used:

Note

The *SlotNbr* differs from the *BoardNbr* used in the other DCM IDL calls

- *SlotNbr* is a long => Compatibility reasons with ROSA/Copernicus
- *SlotNbr* = DCM *BoardNbr* + 1
- *SlotNumber* = 1 = DCM main board
- *SlotNumber* = 2 = DCM board 1
- *SlotNumber* = 3 = DCM board 2
- ...

8.4.4.2 BoardIdentificationList DCM::DeviceControl::GetBoardIdExt (in long *SlotNbr*) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the extended boardtype information This call returns a list of BoardIdentifications: input, output, processor, etc.

in [BoardIdentification](#) format.

Main board: returns a [BoardIdentification](#) for the mainboard only. IO boards: returns a list of Board-Identifications for the IO-board and the present Boards on the IO-board:

- ASI: IO and (no) Transrater BoardIdentification.
- GBE: IO and (no) Transrater and (no) FEC-board BoardIdentification.

Parameters

in	<i>SlotNbr</i>	[1..(Number of available slots returned by GetNbrOfSlots)]
----	----------------	--

Returns

list of Requested board information

Exceptions

<i>OpNotSucceeded</i>	in case of internal error
<i>OutOfRange</i>	in case an invalid SlotNbr is used:

Note

The SlotNbr differs from the BoardNbr used in the other DCM IDL calls

- SlotNbr is a long => Compatibility reasons with ROSA/Copernicus
- SlotNbr = DCM BoardNbr + 1
- SlotNumber = 1 = DCM main board
- SlotNumber = 2 = DCM board 1
- SlotNumber = 3 = DCM board 2
- ...

8.4.4.3 long DCM::DeviceControl::GetNbrOfSlots () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the number of boards that a device can have, including mainboard.

The number of boards returned can be different for other types of chassis.

Returns

The Nbr of boards including mainboard (boards can currently be present or not).

Exceptions

<i>OpNotSucceeded</i>	in case of internal error
-----------------------	---------------------------

8.4.4.4 BoardIdentification DCM::DeviceControl::GetSystemId () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the system version information.

Returns

The system identification in [BoardIdentification](#) format.

Exceptions

<i>OpNotSucceeded</i>	in case of internal error
-----------------------	---------------------------

8.4.4.5 void DCM::DeviceControl::GetUniqueDeviceId (in unsigned short BoardNr, out UniqueDeviceIdList_t UniqueDeviceIdList) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the unique device identity information This call returns information which can be shown on the GUI.

Parameters

in	<i>BoardNr</i>	The Board from which to retrieve information
out	<i>UniqueDevice-IdList</i>	Requested board information

Returns

Requested board information

Exceptions

<i>OpNotSucceeded</i>	in case of internal error
<i>OutOfRange</i>	in case an invalid BoardNumber is used:

8.4.4.6 PresenceStatus DCM::DeviceControl::IsBoardPresent (in long SlotNbr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Measure the presence of a board on a particular board location the SlotNbr ranges from 1 to NbrOfSlots.

Parameters

in	<i>SlotNbr</i>	[1..(Number of available slots returned by GetNbrOfSlots + 1)]
----	----------------	--

Returns

A [PresenceStatus](#) indicating whether the specified board is present or not.

Exceptions

<i>OpNotSucceeded</i>	in case an invalid SlotNbr is used:
-----------------------	-------------------------------------

Note

The SlotNbr differs from the BoardNbr used in the other DCM IDL calls

- SlotNbr is a long => Compatibility reasons with ROSA/Copernicus
- SlotNbr = DCM BoardNbr + 1
- SlotNumber = 1 = DCM main board
- SlotNumber = 2 = DCM board 1
- SlotNumber = 3 = DCM board 2
- ...
- SlotNumber = GetNbrOfSlots+1 = virtual board, returns the system information

8.4.4.7 void DCM::DeviceControl::RebootDCM (in IPS_Ref_t *RefPhys*, in eRebootType *RebootType*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Reboot the **DCM** or a board Single board reboots are only supported for active IP Adapter Video cards.

In case an IP Adapter card is cold rebooted, only the card's settings will be removed. Mainboard's and other card's settings are preserved.

Parameters

in	<i>RefPhys</i>	The Slot (and Port) to apply the call on. The Port is ignored. Specify 0 or 0xFFFF as board number to reboot the whole chassis. Slotnumbers 1-n will reboot the board in the selected slot.
in	<i>RebootType</i>	contains warm or cold indication meaning a preserve or cleanup settings

Exceptions

<i>OpNotSucceeded</i>	in case an invalid board number was used or the target board is not an active IP Adapter Video board. A card being hotswapped out is considered inactive.
-----------------------	---

8.4.4.8 void DCM::DeviceControl::SetSystemName (in string *Name*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the system unit name.

Parameters

in	<i>Name</i>	Specifies the used defined system name, string should be maximum 40 chars
----	-------------	---

Exceptions

<i>OpNotSucceeded</i>	in case of internal error
-----------------------	---------------------------

8.4.4.9 void DCM::DeviceControl::SetUserName (in long *SlotNbr*, in string *UserName*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the user-defined name of a board.

Parameters

in	<i>SlotNbr</i>	[1..(Number of available slots returned by GetNbrOfSlots + 1)]
in	<i>UserName</i>	new user name value, string should be maximum 40 chars

Exceptions

<i>OpNotSucceeded</i>	in case an invalid SlotNbr is used:
-----------------------	-------------------------------------

Note

The SlotNbr differs from the BoardNbr used in the other DCM IDL calls

- SlotNbr is a long => Compatibility reasons with ROSA/Copernicus
- SlotNbr = DCM BoardNbr + 1
- SlotNumber = 1 = DCM main board
- SlotNumber = 2 = DCM board 1
- SlotNumber = 3 = DCM board 2
- ...
- SlotNumber = GetNbrOfSlots+1 = virtual board, returns the system information

8.5 Logging facilities on the DCM

Classes

- struct [DCM::DeviceControl::ModuleExceptionTrace_t](#)
Structure to get or set Debug Trace Level information.

Typedefs

- typedef sequence < [ModuleExceptionTrace_t](#) > [DCM::DeviceControl::ModuleExceptionTraceList_t](#)

Enumerations

- enum [DCM::DeviceControl::eTraceLevel](#) { [DCM::DeviceControl::eDebugAll](#), [DCM::DeviceControl::eDebugMinor](#), [DCM::DeviceControl::eDebugMajor](#), [DCM::DeviceControl::eDebugNone](#) }
Indicates how much debugging information is generated for enabled modules A specific Tracelevel includes all levels above.

Functions

- void [DCM::DeviceControl::LOG_SetLTM](#) (in [IPS_Ref_t](#) RefPhys, in unsigned long level, in unsigned long type, in unsigned long mid) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Deprecated.
- void [DCM::DeviceControl::GetModuleTraceLevel](#) (in unsigned short BoardNumber, out [eTraceLevel](#) TraceLevel, out [ModuleExceptionTraceList_t](#) ModuleExceptionTraceList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the current Trace level and the list of Module names and Modules Id's.
- void [DCM::DeviceControl::SetModuleTraceLevel](#) (in unsigned short BoardNumber, in [eTraceLevel](#) TraceLevel, in [ModuleExceptionTraceList_t](#) ModuleExceptionTraceList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the current Trace level and enable/disable a list of modules.
- void [DCM::DeviceControl::IDL_Trace](#) (in unsigned short BoardNumber, in string LogTraces) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Log a string in the trace of a specific board.

8.5.1 Typedef Documentation

8.5.1.1 typedef sequence<[ModuleExceptionTrace_t](#)> [DCM::DeviceControl::ModuleExceptionTraceList_t](#)

Definition at line 1495 of file DCM.idl.

8.5.2 Enumeration Type Documentation

8.5.2.1 enum [DCM::DeviceControl::eTraceLevel](#)

Indicates how much debugging information is generated for enabled modules A specific Tracelevel includes all levels above.

Enumerator:

eDebugAll
eDebugMinor
eDebugMajor
eDebugNone

Definition at line 1479 of file DCM.idl.

8.5.3 Function Documentation

8.5.3.1 void DCM::DeviceControl::GetModuleTraceLevel (in unsigned short *BoardNumber*, out eTraceLevel *TraceLevel*, out ModuleExceptionTraceList_t *ModuleExceptionTraceList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current Trace level and the list of Module names and Modules Id's.

Parameters

in	<i>BoardNumber</i>	The Board from which to retrieve information
out	<i>TraceLevel</i>	The current tracelevel on the board
out	<i>Module-Exception-TraceList</i>	

8.5.3.2 void DCM::DeviceControl::IDL_Trace (in unsigned short *BoardNumber*, in string *LogTraces*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Log a string in the trace of a specific board.

Parameters

in	<i>BoardNumber</i>	The Board for which a trace message is sent.
in	<i>LogTraces</i>	The string to log into the trace file of the BoardNumber.

Exceptions

<i>OpNotSucceeded</i>	In case of Unexisting board.
-----------------------	--

8.5.3.3 void DCM::DeviceControl::LOG_SetLTM (in IPS_Ref_t *RefPhys*, in unsigned long *level*, in unsigned long *type*, in unsigned long *mid*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Deprecated.

Set level, type and module ID for logging.

Parameters

in	<i>RefPhys</i>	The Slot (and Port) to apply the call on.
in	<i>level</i>	Contains a bitmask with a combination of modeLogSvrty

in	<i>type</i>	Contains a bitmask with a combination of modeLogType
in	<i>mid</i>	Contains a bitmask to enable/disable logging for individual modules

8.5.3.4 void DCM::DeviceControl::SetModuleTraceLevel (in unsigned short *BoardNumber*, in eTraceLevel *TraceLevel*, in ModuleExceptionTraceList_t *ModuleExceptionTraceList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the current Trace level and enable/disable a list of modules.

Parameters

in	<i>BoardNumber</i>	The Board from which to retrieve information
in	<i>TraceLevel</i>	The desired tracelevel on the board
in	<i>Module-Exception-TraceList</i>	A list indicating the Modules to enable/disable

Exceptions

<i>OpNotSucceeded</i>	In case of • setting an invalid TraceLevel • an invalid ModuleId is sent
-----------------------	---

8.6 Application Specific Configuration management

This groups enums, types and methods to control and display what's actually inside the box.

Classes

- struct `DCM::DeviceControl::BoardInfo_t`
Structure to return board configuration.
- struct `DCM::DeviceControl::BoardInfo_V2_t`
Structure to return board configuration.
- struct `DCM::DeviceControl::BoardCfg_t`
Structure to get or set port information.
- struct `DCM::DeviceControl::BoardCfg_V2_t`
Structure to get or set port information.
- struct `DCM::DeviceControl::ComponentTemperature_t`
- struct `DCM::DeviceControl::BoardTemperature_t`
- struct `DCM::DeviceControl::IP_Subnet_t`
- struct `DCM::DeviceControl::NicTeam_Settings`
Structure to get or set NIC team configuration.
- struct `DCM::DeviceControl::NicTeam_MemberStatus_t`
Structure describing the status of a NIC team member.
- struct `DCM::DeviceControl::NicTeamStatus`
Structure to get NIC team status.

Typedefs

- typedef sequence< BoardInfo_t > `DCM::DeviceControl::BoardInfo_List_t`
A sequence of [BoardInfo_t](#) entries.
- typedef sequence< BoardInfo_V2_t > `DCM::DeviceControl::BoardInfo_List_V2_t`
A sequence of [BoardInfo_V2_t](#) entries.
- typedef sequence< BoardCfg_t > `DCM::DeviceControl::BoardCfg_List_t`
A sequence of [BoardCfg_t](#) entries.
- typedef sequence< BoardCfg_V2_t > `DCM::DeviceControl::BoardCfg_V2_List_t`
A sequence of [BoardCfg_V2_t](#) entries.
- typedef sequence< unsigned short > `DCM::DeviceControl::PortList_t`
A sequence of shorts used to filter ports.
- typedef sequence< unsigned short > `DCM::DeviceControl::BoardList_t`
A sequence of shorts used to filter boards.
- typedef sequence < ComponentTemperature_t > `DCM::DeviceControl::ComponentTemperature_List_t`
- typedef sequence < BoardTemperature_t > `DCM::DeviceControl::BoardTemperature_List_t`
- typedef sequence< IP_Subnet_t > `DCM::DeviceControl::IP_SubnetList_t`
A sequence of [IP_Subnet_t](#).
- typedef sequence< IPS_Ref_t > `DCM::DeviceControl::NicTeam_MemberList_t`
- typedef sequence < NicTeam_MemberStatus_t > `DCM::DeviceControl::NicTeam_MemberStatus_List_t`

Enumerations

- enum `DCM::DeviceControl::eIOInterfaceType` { `DCM::DeviceControl::IOInterfaceType_IP`, `DCM::DeviceControl::IOInterfaceType_ASI`, `DCM::DeviceControl::IOInterfaceType_SDI` }

Types of ports or IO interfaces..

- enum `DCM::DeviceControl::eIOInterfaceType_V2` { `DCM::DeviceControl::IOInterfaceType_V2_IP`, `DCM::DeviceControl::IOInterfaceType_V2_ASI`, `DCM::DeviceControl::IOInterfaceType_V2_SDI`, `DCM::DeviceControl::IOInterfaceType_V2_8VSB`, `DCM::DeviceControl::IOInterfaceType_V2_DVBS2`, `DCM::DeviceControl::IOInterfaceType_V2_AES`, `DCM::DeviceControl::IOInterfaceType_V2_Reserved7`, `DCM::DeviceControl::IOInterfaceType_V2_Reserved8`, `DCM::DeviceControl::IOInterfaceType_V2_Reserved9`, `DCM::DeviceControl::IOInterfaceType_V2_Reserved10`, `DCM::DeviceControl::IOInterfaceType_V2_Reserved11`, `DCM::DeviceControl::IOInterfaceType_V2_Reserved12`, `DCM::DeviceControl::IOInterfaceType_V2_Reserved13`, `DCM::DeviceControl::IOInterfaceType_V2_Reserved14`, `DCM::DeviceControl::IOInterfaceType_V2_Reserved15` }

Types of ports or IO interfaces - Version 2.

- enum `DCM::DeviceControl::eIOType` { `DCM::DeviceControl::IOType_I0`, `DCM::DeviceControl::IOType_FixedIn`, `DCM::DeviceControl::IOType_FixedOut`, `DCM::DeviceControl::IOType_CfgIn`, `DCM::DeviceControl::IOType_CfgOut` }

Configuration types of a port.

- enum `DCM::DeviceControl::eIOType_V2` { `DCM::DeviceControl::IOType_V2_I0`, `DCM::DeviceControl::IOType_V2_FixedIn`, `DCM::DeviceControl::IOType_V2_FixedOut`, `DCM::DeviceControl::IOType_V2_CfgIn`, `DCM::DeviceControl::IOType_V2_CfgOut`, `DCM::DeviceControl::IOType_V2_Reserved6`, `DCM::DeviceControl::IOType_V2_Reserved7`, `DCM::DeviceControl::IOType_V2_Reserved8`, `DCM::DeviceControl::IOType_V2_Reserved9`, `DCM::DeviceControl::IOType_V2_Reserved10` }

Configuration types of a port.

- enum `DCM::DeviceControl::ePortEnabledMode` { `DCM::DeviceControl::ePortMode_Enabled`, `DCM::DeviceControl::ePortMode_Disabled`, `DCM::DeviceControl::ePortMode_AutoEnabled`, `DCM::DeviceControl::ePortMode_Reserved4`, `DCM::DeviceControl::ePortMode_Reserved5`, `DCM::DeviceControl::ePortMode_Reserved6`, `DCM::DeviceControl::ePortMode_Reserved7`, `DCM::DeviceControl::ePortMode_Reserved8`, `DCM::DeviceControl::ePortMode_Reserved9`, `DCM::DeviceControl::ePortMode_Reserved10` }

Enum to denote the port mode Note: Only ASI and Gbe ports can be set in AutoEnabled mode.

- enum `DCM::DeviceControl::ePortDisableMode` { `DCM::DeviceControl::ePortDisable_PortOnly`, `DCM::DeviceControl::ePortDisable_FullLink` }
- enum `DCM::DeviceControl::eGbePortMode_t` { `DCM::DeviceControl::ePortPairMode`, `DCM::DeviceControl::eIndividualPortMode`, `DCM::DeviceControl::eGbePortModeReserved1`, `DCM::DeviceControl::eGbePortModeReserved2`, `DCM::DeviceControl::eGbePortModeReserved3`, `DCM::DeviceControl::eGbePortModeReserved4`, `DCM::DeviceControl::eGbePortModeReserved5` }

Configuration values for Gbe port mode.

- enum `DCM::DeviceControl::eNicTeamMode` { `DCM::DeviceControl::NicTeamMode_Revertive`, `DCM::DeviceControl::NicTeamMode_Floating`, `DCM::DeviceControl::NicTeamMode_Reserved3`, `DCM::DeviceControl::NicTeamMode_Reserved4`, `DCM::DeviceControl::NicTeamMode_Reserved5`, `DCM::DeviceControl::NicTeamMode_Reserved6`, `DCM::DeviceControl::NicTeamMode_Reserved7`, `DCM::DeviceControl::NicTeamMode_Reserved8`, `DCM::DeviceControl::NicTeamMode_Reserved9` }

NIC team configuration modes used in NicTeam_Settings.

- enum `DCM::DeviceControl::eLinkStatus` { `DCM::DeviceControl::LinkStatus_Down`, `DCM::DeviceControl::LinkStatus_Up`, `DCM::DeviceControl::LinkStatus_Reserved3`, `DCM::DeviceControl::LinkStatus_Reserved4`, `DCM::DeviceControl::LinkStatus_Reserved5`, `DCM::DeviceControl::LinkStatus_Reserved6`, `DCM::DeviceControl::LinkStatus_Reserved7`, `DCM::DeviceControl::LinkStatus_Reserved8`, `DCM::DeviceControl::LinkStatus_Reserved9` }

Management port link status, used in NicTeam_MemberStatus_t.

Functions

- BoardInfo_List_t [DCM::DeviceControl::BoardGetL](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Gets a list of present boards in the device and their board type.
- BoardInfo_List_V2_t [DCM::DeviceControl::BoardGetL_V2](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Gets a list of present boards in the device and their board type.
- BoardCfg_List_t [DCM::DeviceControl::BoardCfgGetL](#) (in unsigned short BoardNumber, in PortList_t PortList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
(Deprecated) Gets the configuration of a number of ports.
- void [DCM::DeviceControl::BoardCfgSet](#) (in BoardCfg_t BoardCfg) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
(Deprecated) Configure one port.
- BoardCfg_V2_List_t [DCM::DeviceControl::BoardCfg_V2_GetL](#) (in unsigned short BoardNumber, in PortList_t PortList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Gets the configuration of a number of ports - version 2.
- void [DCM::DeviceControl::BoardCfg_V2_Set](#) (in BoardCfg_V2_t BoardCfg) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange, LicenseError)
Configure one port - version 2.
- void [DCM::DeviceControl::PortDisableModeSet](#) (in IPS_Ref_t RefPhys, in ePortDisableMode PortDisableMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Configure the port disable mode for a GbE portset.
- void [DCM::DeviceControl::PortDisableModeGet](#) (in IPS_Ref_t RefPhys, out ePortDisableMode - PortDisableMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Request the port disable mode for a GbE portset.
- void [DCM::DeviceControl::BoardsConnected](#) (in unsigned short BoardNr, out BoardList_t BoardList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Gets a list of all boards (hw) connected to a specified BoardNr.
- void [DCM::DeviceControl::BoardGetTemperatures](#) (in unsigned short BoardNr, out BoardTemperature_List_t BoardTemperature_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Gets a list of all temperatures which can be measured.
- void [DCM::DeviceControl::IPS_IP_ParamsMbGet](#) (in IPS_Ref_t RefPhys, out string IPAddress, out string SubNetMask, out string DefaultGw, out string MacAddress) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Gets the IP address, network mask, default gateway and MAC address for a mainboard interface.
- void [DCM::DeviceControl::IPS_IP_ParamsMbSet](#) (in IPS_Ref_t RefPhys, in string IPAddress, in string SubNetMask, in string DefaultGw, in boolean Apply) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Sets the IP address, network mask and default gateway for a mainboard interface.
- void [DCM::DeviceControl::IPS_IPv6_ParamsMbGet](#) (in IPS_Ref_t RefPhys, out string IPAddress, out string SubNetMask, out string DefaultGw, out string MacAddress) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Gets the IP address, network mask, default gateway and MAC address for a mainboard interface.
- void [DCM::DeviceControl::IPS_IPv6_ParamsMbSet](#) (in IPS_Ref_t RefPhys, in string IPAddress, in string SubNetMask, in string DefaultGw) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the IP address, network mask, default gateway and MAC address for a mainboard interface.

- void [DCM::DeviceControl::IPS_IP_ParamsMbGet_V2](#) (in [IPS_Ref_t](#) RefPhys, out [IP_SubnetList_t](#) IPConfig, out string MacAddress) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets all the IP addresses, prefix lengths, default gateways, aliases and MAC address for a mainboard interface.

- void [DCM::DeviceControl::IPS_IP_ParamsMbSet_V2](#) (in [IPS_Ref_t](#) RefPhys, in [IP_SubnetList_t](#) IPConfig, in boolean Apply) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Sets all the IP addresses, prefix lengths, default gateways and aliases for a mainboard interface.

- void [DCM::DeviceControl::SetGbePortMode](#) (in unsigned short BoardNr, in [eGbePortMode_t](#) Mode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the given board in either individual port mode (2I2O) or port pairs mode.

- [eGbePortMode_t](#) [DCM::DeviceControl::GetGbePortMode](#) (in unsigned short BoardNr) raises (TimeOut, OpNotAllowed, OpNotSupported)

Returns the Gbe port mode of the given board.

- void [DCM::DeviceControl::GetNicTeamStatus](#) (out [NicTeamStatus](#) status) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the NIC team status.

- void [DCM::DeviceControl::GetNicTeamSettings](#) (out [NicTeam_Settings](#) settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the NIC team configuration.

- void [DCM::DeviceControl::SetNicTeamSettings](#) (in [NicTeam_Settings](#) settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set the NIC team configuration.

Variables

- const unsigned short [DCM::DeviceControl::INVALID_BOARD](#) = 0xffff

Undefined board.

- const unsigned short [DCM::DeviceControl::MAINBOARD](#) = 0

- const unsigned short [DCM::DeviceControl::INVALID_PORT](#) = 0xffff

Undefined port.

- const unsigned short [DCM::DeviceControl::ANY_PORT](#) = 0xffff

Only for input parameters.

8.6.1 Detailed Description

This groups enums, types and methods to control and display what's actually inside the box.

8.6.2 Typedef Documentation

8.6.2.1 typedef sequence<[BoardCfg_t](#)> [DCM::DeviceControl::BoardCfg_List_t](#)

A sequence of [BoardCfg_t](#) entries.

Definition at line 1724 of file DCM.idl.

8.6.2.2 typedef sequence<BoardCfg_V2_t> DCM::DeviceControl::BoardCfg_V2_List_t

A sequence of [BoardCfg_V2_t](#) entries.

Definition at line 1729 of file DCM.idl.

8.6.2.3 typedef sequence<BoardInfo_t> DCM::DeviceControl::BoardInfo_List_t

A sequence of [BoardInfo_t](#) entries.

Definition at line 1584 of file DCM.idl.

8.6.2.4 typedef sequence<BoardInfo_V2_t> DCM::DeviceControl::BoardInfo_List_V2_t

A sequence of [BoardInfo_V2_t](#) entries.

Definition at line 1587 of file DCM.idl.

8.6.2.5 typedef sequence<unsigned short> DCM::DeviceControl::BoardList_t

A sequence of shorts used to filter boards.

Definition at line 1735 of file DCM.idl.

8.6.2.6 typedef sequence<BoardTemperature_t> DCM::DeviceControl::BoardTemperature_List_t

Definition at line 1958 of file DCM.idl.

8.6.2.7 typedef sequence<ComponentTemperature_t> DCM::DeviceControl::Component-Temperature_List_t

Definition at line 1946 of file DCM.idl.

8.6.2.8 typedef sequence<IP_Subnet_t> DCM::DeviceControl::IP_SubnetList_t

A sequence of [IP_Subnet_t](#).

Definition at line 2070 of file DCM.idl.

8.6.2.9 typedef sequence<IPS_Ref_t> DCM::DeviceControl::NicTeam_MemberList_t

Definition at line 2181 of file DCM.idl.

8.6.2.10 typedef sequence<NicTeam_MemberStatus_t> DCM::DeviceControl::NicTeam_Member-StatusList_t

Definition at line 2211 of file DCM.idl.

8.6.2.11 typedef sequence<unsigned short> DCM::DeviceControl::PortList_t

A sequence of shorts used to filter ports.

Definition at line 1732 of file DCM.idl.

8.6.3 Enumeration Type Documentation**8.6.3.1 enum DCM::DeviceControl::eGbePortMode_t**

Configuration values for Gbe port mode.

Version

Release 8.0

Enumerator:

ePortPairMode ports are configured in bidirectional port pairs.
eIndividualPortMode ports are configured in 2 input ports (1 and 3) and 2 output ports (2 and 4).
eGbePortModeReserved1 reserved for future use
eGbePortModeReserved2 reserved for future use
eGbePortModeReserved3 reserved for future use
eGbePortModeReserved4 reserved for future use
eGbePortModeReserved5 reserved for future use

Definition at line 1740 of file DCM.idl.

8.6.3.2 enum DCM::DeviceControl::eIOInterfaceType

Types of ports or IO interfaces..

Enumerator:

IOInterfaceType_IP Gigabit Ethernet.
IOInterfaceType_ASI ASI.
IOInterfaceType_SDI SDI.

Definition at line 1590 of file DCM.idl.

8.6.3.3 enum DCM::DeviceControl::eIOInterfaceType_V2

Types of ports or IO interfaces - Version 2.

Version

Release 8.1

Enumerator:

IOInterfaceType_V2_IP Gigabit Ethernet.
IOInterfaceType_V2_ASI ASI.
IOInterfaceType_V2_SDI SDI.
IOInterfaceType_V2_8VSB 8VSB
IOInterfaceType_V2_DVBS2 DVBS2.
IOInterfaceType_V2_AES AES (AudioGW)
IOInterfaceType_V2_Reserved7 Reserved for future use.
IOInterfaceType_V2_Reserved8 Reserved for future use.
IOInterfaceType_V2_Reserved9 Reserved for future use.
IOInterfaceType_V2_Reserved10 Reserved for future use.
IOInterfaceType_V2_Reserved11 Reserved for future use.
IOInterfaceType_V2_Reserved12 Reserved for future use.
IOInterfaceType_V2_Reserved13 Reserved for future use.
IOInterfaceType_V2_Reserved14 Reserved for future use.
IOInterfaceType_V2_Reserved15 Reserved for future use.

Definition at line 1602 of file DCM.idl.

8.6.3.4 enum DCM::DeviceControl::eIOType

Configuration types of a port.

Enumerator:

IOType_I0 A GbE port always is input/output.

IOType_FixedIn GbE port configured as input only (e.g. first port of port-pair in 2I2O mode).

IOType_FixedOut GbE port configured as output only (e.g. second port of port-pair in 2I2O mode).

IOType_CfgIn An ASI port set for input.

IOType_CfgOut An ASI port set for output.

Definition at line 1623 of file DCM.idl.

8.6.3.5 enum DCM::DeviceControl::eIOType_V2

Configuration types of a port.

- version 2

Enumerator:

IOType_V2_I0 A port which is bidirectional (e.g. Gbe).

IOType_V2_FixedIn A port that is input only (e.g. first port of Gbe port-pair in 2I2O mode or 8VSB input port)

IOType_V2_FixedOut A port that is output only (e.g. second port of Gbe port-pair in 2I2O mode).

IOType_V2_CfgIn A port configured for input.

IOType_V2_CfgOut A port configured for output.

IOType_V2_Reserved6 Reserved for future use.

IOType_V2_Reserved7 Reserved for future use.

IOType_V2_Reserved8 Reserved for future use.

IOType_V2_Reserved9 Reserved for future use.

IOType_V2_Reserved10 Reserved for future use.

Definition at line 1635 of file DCM.idl.

8.6.3.6 enum DCM::DeviceControl::eLinkStatus

Management port link status, used in [NicTeam_MemberStatus_t](#).

Version

Release 11.10

Enumerator:

LinkStatus_Down

LinkStatus_Up

LinkStatus_Reserved3

LinkStatus_Reserved4

LinkStatus_Reserved5

LinkStatus_Reserved6

LinkStatus_Reserved7

LinkStatus_Reserved8

LinkStatus_Reserved9

Definition at line 2166 of file DCM.idl.

8.6.3.7 enum DCM::DeviceControl::eNicTeamMode

NIC team configuration modes used in [NicTeam_Settings](#).

Version

Release 11.10

Enumerator:

NicTeamMode_Revertive

NicTeamMode_Floating

NicTeamMode_Reserved3

NicTeamMode_Reserved4

NicTeamMode_Reserved5

NicTeamMode_Reserved6

NicTeamMode_Reserved7

NicTeamMode_Reserved8

NicTeamMode_Reserved9

Definition at line 2148 of file DCM.idl.

8.6.3.8 enum DCM::DeviceControl::ePortDisableMode

Enumerator:

ePortDisable_PortOnly If the port is disabled and the disable mode is set to port only, the link is enabled.

ePortDisable_FullLink If the port is disabled and the disable mode is set to full link, the link is disabled.

Definition at line 1717 of file DCM.idl.

8.6.3.9 enum DCM::DeviceControl::ePortEnabledMode

Enum to denote the port mode Note: Only ASI and Gbe ports can be set in AutoEnabled mode.

Enumerator:

ePortMode_Enabled Port is configured enabled.

ePortMode_Disabled Port is configured disabled.

ePortMode_AutoEnabled Port is configured auto enabled, will be enabled/disabled depending on whether the device is active or in backup.

ePortMode_Reserved4 Reserved for future use.
ePortMode_Reserved5 Reserved for future use.
ePortMode_Reserved6 Reserved for future use.
ePortMode_Reserved7 Reserved for future use.
ePortMode_Reserved8 Reserved for future use.
ePortMode_Reserved9 Reserved for future use.
ePortMode_Reserved10 Reserved for future use.

Definition at line 1676 of file DCM.idl.

8.6.4 Function Documentation

8.6.4.1 BoardCfg_V2_List_t DCM::DeviceControl::BoardCfg_V2_GetL (in unsigned short *BoardNumber*, in PortList_t *PortList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the configuration of a number of ports - version 2.

Parameters

in	<i>BoardNumber</i>	An unsigned short to indicate the slot.
in	<i>PortList</i>	A sequence of ports to get information about.

Returns

BoardCfg_V2_List_t A sequence of [BoardCfg_V2_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When - BoardNumber = 0 = Main board. - The board is a IPGW board.
<i>OpNotSucceeded</i>	In case invalid references (BoardNumber, PortNbr) are used

Note

Send an empty PortList to get info of all ports on the specified board.

Version

Release 8.1

8.6.4.2 void DCM::DeviceControl::BoardCfg_V2_Set (in BoardCfg_V2_t *BoardCfg*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange, LicenseError)

Configure one port - version 2.

Parameters

in	<i>BoardCfg</i>	BoardCfg_V2_t structure holding the information to set.
----	-----------------	---

Exceptions

<i>OpNotSupported</i>	When - BoardNumber = 0 = Main board. - The board is a IPGW board.
<i>OpNotSucceeded</i>	In case of - Invalid references (BoardNumber, PortNumber,...). - Invalid enum values (IOType, IOInterfaceType). - changing the direction of an ASI port from IOType_CfgIn to IOType_CfgOut when input services are passed to an output or settings for input services are present - Port name too long (> 40 char). - When in port pair mode and the port reference is a backup port. - When you try to put a port of 8VSB, AudioGW, or VideoGW in AutoEnabled port mode.
<i>LicenseError</i>	When trying to enable a 8VSB port without a license available

Note

- Switching a port from output to input: the device does the switch including deleting all routing information.
- Switching a port from input to output: the device does the switch if no services are passed to an output, and no input service settings are present, otherwise an exception is generated.
- After switching the port from input -> output or vice versa, default settings will be applied.
- In port pair mode BoardCfg.PortEnabledMode applies to the port pair.
- In individual port mode (2I2O) mode each port can have a different value for BoardCfg.PortEnabledMode.

Version

Release 8.1

8.6.4.3 BoardCfg_List_t DCM::DeviceControl::BoardCfgGetL (in unsigned short *BoardNumber*, in PortList_t *PortList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

(Deprecated) Gets the configuration of a number of ports.

Parameters

in	<i>BoardNumber</i>	An unsigned short to indicate the slot.
in	<i>PortList</i>	A sequence of ports to get information about.

Returns

BoardCfg_List_t A sequence of [BoardCfg_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNumber = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references (BoardNumber, PortNbr) are used
<i>OpNotSucceeded</i>	when the port type is different from Asi, Gbe or SDI.

Note

Send an empty PortList to get info of all ports on the specified board.

Deprecated Use BoardCfg_V2_GetL instead.

8.6.4.4 void DCM::DeviceControl::BoardCfgSet (in BoardCfg_t *BoardCfg*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

(Deprecated) Configure one port.

Parameters

in	<i>BoardCfg</i>	BoardCfg_t structure holding the information to set.
----	-----------------	--

Exceptions

<i>OpNotSupported</i>	When BoardNumber = 0 = Main board.
<i>OpNotSucceeded</i>	In case of - Invalid references (BoardNumber, PortNumber,...). - Invalid enum values (IOType, IOInterfaceType). - changing the direction of an ASI port from IOType_CfgIn to IOType_CfgOut when input services are passed to an output or settings for input services are present - Port name too long (> 40 char).

Note

- Switching a port from output to input: the device does the switch including deleting all routing information.
- Switching a port from input to output: the device does the switch if no services are passed to an output, and no input service settings are present, otherwise an exception is generated.
- After switching the port from input -> output or vice versa, default settings will be applied.
- In port pair mode BoardCfg.enabled applies to the port pair (note that also reference of second port can be used, but the settings of the first port will be used, e.g. some of the settings provided in BoardCfg will be ignored).
- In individual port mode (2I2O) mode each port can have a different value for BoardCfg.enabled.
- When this call is performed the port will be forced to enabled or disabled mode and the auto-enabled port mode settings might be lost.

Deprecated Use BoardCfg_V2_Set instead.

8.6.4.5 BoardInfo_List.t DCM::DeviceControl::BoardGetL () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets a list of present boards in the device and their board type.

This call will only return the board types used in eBoardType (ASI or GbE). If other types of boards are present in the device, these boards are not returned. For boards that are supported by [DCM](#) from release V6.9 onwards, the BoardGetL_V2 call should be used.

Returns

BoardInfo_List_t A list of [BoardInfo_t](#).

Exceptions

<i>OpNotSucceeded</i>	in case of internal error
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Note

To get the version info, the [GetBoardId](#) IDL should be used

Version

Release 1.0

8.6.4.6 BoardInfo_List_V2.t DCM::DeviceControl::BoardGetL_V2 () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets a list of present boards in the device and their board type.

Returns

BoardInfo_List_V2_t A list of [BoardInfo_V2_t](#).

Exceptions

<i>OpNotSucceeded</i>	in case of internal error
-----------------------	---------------------------

Note

To get the version info, the [GetBoardId](#) IDL should be used

Version

Release 6.9

8.6.4.7 void DCM::DeviceControl::BoardGetTemperatures (in unsigned short *BoardNr*, out BoardTemperature_List_t *BoardTemperature_List*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets a list of all temperatures which can be measured.

Parameters

in	<i>BoardNr</i>	0 for main board or 1..n for I/O boards.
out	<i>BoardTemperature_List</i>	list of components with their measured temperature.

Exceptions

<i>OpNotSucceeded</i>	In case of invalid BoardNr
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8.6.4.8 void DCM::DeviceControl::BoardsConnected (in unsigned short *BoardNr*, out BoardList_t *BoardList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets a list of all boards (hw) connected to a specified BoardNr.

Parameters

in	<i>BoardNr</i>	
out	<i>BoardList</i>	

Returns

BoardList contains SlotNbr of connected boards

- for MB (BoardNr = 0): 1 = IO board in slot 1 2 = IO board in slot 2 ...
- for IO (BoardNr > 0): 1 = transrater board 2 = FEC board
- for IP Adapter (> 0): 1 = JPEG2K board

Exceptions

<i>OpNotSucceeded</i>	In case of invalid BoardNr
-----------------------	----------------------------

8.6.4.9 eGbePortMode_t DCM::DeviceControl::GetGbePortMode (in unsigned short *BoardNr*) raises (TimeOut, OpNotAllowed, OpNotSupported)

Returns the Gbe port mode of the given board.

Parameters

in	<i>BoardNr</i>	contains board number.
----	----------------	------------------------

Returns

configured Gbe port mode.

Exceptions

<i>OpNotSupported</i>	: when board nbr does not match a Gbe IO board
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Version

Supported since release 8.0

8.6.4.10 void DCM::DeviceControl::GetNicTeamSettings (out NicTeam_Settings *settings*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the NIC team configuration.

Parameters

out	<i>settings</i>	The NIC team configuration.
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Version

Release 11.10

8.6.4.11 void DCM::DeviceControl::GetNicTeamStatus (out NicTeamStatus *status*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the NIC team status.

Parameters

out	<i>status</i>	The NIC team status.
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Exceptions

<i>OperationFailed</i>	When NIC teaming is disabled.
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Version

Release 11.10

8.6.4.12 void DCM::DeviceControl::IPS_IP_ParamsMbGet (in IPS_Ref_t *RefPhys*, out string *IPAddress*, out string *SubNetMask*, out string *DefaultGw*, out string *MacAddress*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the IP address, network mask, default gateway and MAC address for a mainboard interface.

Parameters

in	<i>RefPhys</i>	Specifies BoardNr & PortNr to get the IP params from.
out	<i>IPAddress</i>	

out	<i>SubNetMask</i>	
out	<i>DefaultGw</i>	
out	<i>MacAddress</i>	

Returns

IPAddress Ip address of the interface
 SubNetMask SubNetMask of the interface
 DefaultGw Default gateway of the interface
 MacAddress MAC address of the interface

Exceptions

<i>OpNotSupported</i>	When called for other boards than the mainboard
<i>OpNotSucceeded</i>	In case invalid references are used (RefPhys).

Version

Supported since release 5.1

8.6.4.13 void DCM::DeviceControl::IPS_IP_ParamsMbGet_V2 (in IPS_Ref_t *RefPhys*, out IP_SubnetList_t *IPConfig*, out string *MacAddress*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets all the IP addresses, prefix lengths, default gateways, aliases and MAC address for a mainboard interface.

Parameters

in	<i>RefPhys</i>	Specifies BoardNr & PortNr to get the IP params from.
out	<i>IPConfig</i>	
out	<i>MacAddress</i>	

Returns

IPConfig IP configuration of the interface
 MacAddress MAC address of the interface

Exceptions

<i>OpNotSupported</i>	When called for other boards than the mainboard
<i>OpNotSucceeded</i>	In case invalid references are used (RefPhys).
<i>OperationFailed</i>	

Version

Supported since release 10.10

8.6.4.14 void DCM::DeviceControl::IPS_IP_ParamsMbSet (in IPS_Ref_t *RefPhys*, in string *IPaddress*, in string *SubNetMask*, in string *DefaultGw*, in boolean *Apply*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the IP address, network mask and default gateway for a mainboard interface.

When a valid gateway is specified, it replaces the currently existing default gateway. To specify no gateway, use 0.0.0.0

Parameters

in	<i>RefPhys</i>	Specifies BoardNr & PortNr to set the IP params.
in	<i>IPaddress</i>	The new IP address
in	<i>SubNetMask</i>	The new netmask
in	<i>DefaultGw</i>	The default gateway or 0.0.0.0
in	<i>Apply</i>	Indicates if you only want to verify the setting or apply it as well

Exceptions

<i>OpNotSupported</i>	When called for other boards than the mainboard
<i>OpNotSucceeded</i>	In case invalid references are used (RefPhys).
<i>OpNotSucceeded</i>	In case an invalid IP address is given.
<i>OpNotSucceeded</i>	In case an invalid SubNetMask address is given.
<i>OpNotSucceeded</i>	In case an invalid Default gateway is given.

Version

Supported since release 8.5

8.6.4.15 void DCM::DeviceControl::IPS_IP_ParamsMbSet_V2 (in IPS_Ref_t *RefPhys*, in IP_SubnetList_t *IPConfig*, in boolean *Apply*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Sets all the IP addresses, prefix lengths, default gateways and aliases for a mainboard interface.

When a valid gateway is specified, it replaces the currently existing default gateway. To specify no gateway, use "0.0.0.0" or "::-"

Parameters

in	<i>RefPhys</i>	Specifies BoardNr & PortNr to set the IP params.
in	<i>IPConfig</i>	The new IP configuration
in	<i>Apply</i>	Indicates if you only want to verify the setting or apply it as well

Exceptions

<i>OpNotSupported</i>	When called for other boards than the mainboard
<i>OpNotSucceeded</i>	In case invalid references are used (RefPhys).
<i>OpNotSucceeded</i>	In case an invalid IP configuration is given.
<i>OperationFailed</i>	

Note

Per protocol (IPv4 or IPv6) only one subnet may have a default gateway entered. The default gateway for IPv4 doesn't need to be on the same interface as for IPv6.

Version

Supported since release 10.10

8.6.4.16 void DCM::DeviceControl::IPS_IPv6_ParamsMbGet (in IPS_Ref_t *RefPhys*, out string *IPAddress*, out string *SubNetMask*, out string *DefaultGw*, out string *MacAddress*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the IP address, network mask, default gateway and MAC address for a mainboard interface.

Parameters

in	<i>RefPhys</i>	Specifies BoardNr & PortNr to get the IP params from.
out	<i>IPAddress</i>	
out	<i>SubNetMask</i>	
out	<i>DefaultGw</i>	
out	<i>MacAddress</i>	

Returns

IPAddress Ip address of the interface
 SubNetMask SubNetMask of the interface
 DefaultGw Default gateway of the interface
 MacAddress MAC address of the interface

Exceptions

<i>OpNotSupported</i>	When called for other boards than the mainboard
<i>OpNotSupported</i>	When called on DCM without IPv6 kernel stack
<i>OpNotSucceeded</i>	In case invalid references are used (RefPhys).

Version

Supported since release 8.2

Note

!!!! EXPERIMENTAL - DO NOT USE !!!!

8.6.4.17 void DCM::DeviceControl::IPS_IPv6_ParamsMbSet (in IPS_Ref_t *RefPhys*, in string *IPAddress*, in string *SubNetMask*, in string *DefaultGw*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the IP address, network mask, default gateway and MAC address for a mainboard interface.

Parameters

in	<i>RefPhys</i>	Specifies BoardNr & PortNr to set the IP params from.
in	<i>IPAddress</i>	
in	<i>SubNetMask</i>	
in	<i>DefaultGw</i>	

Returns

IPAddress Ip address of the interface
 SubNetMask SubNetMask of the interface
 DefaultGw Default gateway of the interface

Exceptions

<i>OpNotSupported</i>	When called for other boards than the mainboard
<i>OpNotSupported</i>	When called on DCM without IPv6 kernel stack
<i>OpNotSucceeded</i>	In case invalid references are used (RefPhys).

Version

Supported since release 8.2

Note

!!!! EXPERIMENTAL - DO NOT USE !!!!

8.6.4.18 void DCM::DeviceControl::PortDisableModeGet (in IPS_Ref_t *RefPhys*, out ePortDisableMode *PortDisableMode*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Request the port disable mode for a GbE portset.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr on which the mode is requested, only for GbE boards
out	<i>PortDisable-Mode</i>	The requested port disable mode.

Returns

PortDisableMode

Exceptions

<i>OpNotSupported</i>	When the board is not a GbE board, IP Video Adapter board or IP Audio Gateway board.
<i>OpNotSucceeded</i>	In case of Invalid references (BoardNumber, PortNumber,...), only valid on GbE board.

Note

- In port pair mode only RefPhys of first port in port pair can be given (otherwise OpNotSucceeded is returned).
- In 2I2O mode the physref of each port in the port pair can be provided.

8.6.4.19 void DCM::DeviceControl::PortDisableModeSet (in IPS_Ref_t *RefPhys*, in ePortDisableMode *PortDisableMode*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Configure the port disable mode for a GbE portset.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr on which the mode must be set, only for GbE boards
in	<i>PortDisableMode</i>	The parameter of the port disable mode.

Exceptions

<i>OpNotSupported</i>	When the board is not a GbE board, IP Video Adapter board or IP Audio Gateway board.
<i>OpNotSucceeded</i>	In case of • Invalid references (BoardNumber, PortNumber,...), only valid on GbE board. • Invalid enum values (PortDisableMode).

Note

- In port pair mode, port disable mode is set for both ports of the port pair when reference of first port is given. An OpNotSucceeded exception is returned if a reference of the second port in the port pair is provided.
- In individual port mode (2I2O) mode it is possible to set the port disable mode for each individual port, hence no exception is generated if the second port is given as port reference.

8.6.4.20 void DCM::DeviceControl::SetGbePortMode (in unsigned short *BoardNr*, in eGbePortMode_t *Mode*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the given board in either individual port mode (2I2O) or port pairs mode.

Parameters

in	<i>BoardNr</i>	contains board number
in	<i>Mode</i>	specifies the board mode to be set

Exceptions

<i>OpNotSupported</i>	when board nbr does not match a Gbe IO board
<i>OpNotSucceed</i>	when port mirroring or backup is active

Version

Supported since release 8.0

8.6.4.21 `void DCM::DeviceControl::SetNicTeamSettings ( in NicTeam_Settings settings ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)`

Set the NIC team configuration.

Parameters

<code>in</code>	<code><i>settings</i></code>	The NIC team configuration to set.
-----------------	------------------------------	------------------------------------

Exceptions

<code><i>OperationFailed</i></code>	in case the configuration is invalid.
-------------------------------------	---------------------------------------

Note

This operation will cause the [DCM](#) to reboot if it enables or disables NIC teaming or changes parameters while NIC teaming is enabled.

Version

Release 11.10

8.6.5 Variable Documentation

8.6.5.1 `const unsigned short DCM::DeviceControl::ANY_PORT = 0xffff`

Only for input parameters.

If you want all ports on a board.

Definition at line 1555 of file DCM.idl.

8.6.5.2 `const unsigned short DCM::DeviceControl::INVALID_BOARD = 0xffff`

Undefined board.

Definition at line 1548 of file DCM.idl.

8.6.5.3 `const unsigned short DCM::DeviceControl::INVALID_PORT = 0xffff`

Undefined port.

Definition at line 1551 of file DCM.idl.

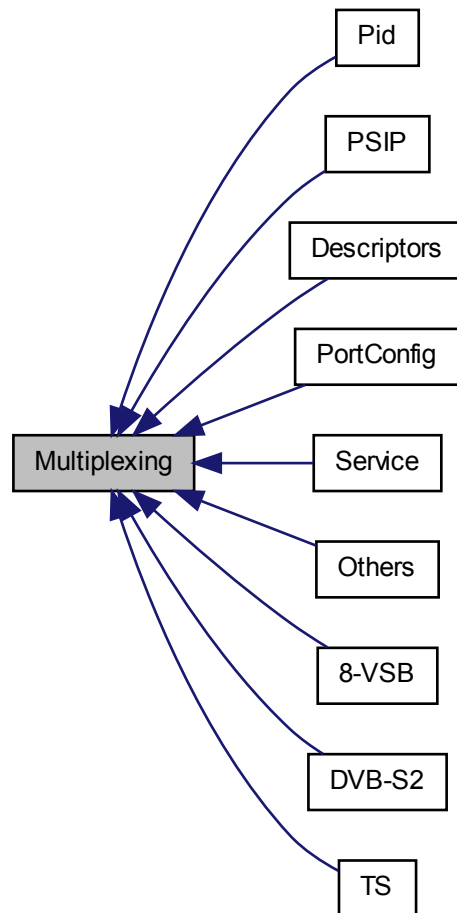
8.6.5.4 `const unsigned short DCM::DeviceControl::MAINBOARD = 0`

Definition at line 1549 of file DCM.idl.

8.7 Multiplexing

This contains types, enums and methods to configure the multiplexer part of the device.

Collaboration diagram for Multiplexing:



Modules

- [TS](#)
This contains types, enums and methods to configure the TSs of the multiplexer part in the device.
- [Service](#)
This contains types, enums and methods to configure the TS Services of the multiplexer part in the device.
- [Pid](#)
This contains types, enums and methods to configure the pid settings of the multiplexer part in the device.
- [PortConfig](#)

This contains types, enums and methods to configure the ports of the multiplexer part in the device.

- [8-VSB](#)

This contains types, enums and methods to configure 8VSB ports.

- [DVB-S2](#)

This contains types, enums and methods to configure DVB-S2 ports.

- [Descriptors](#)

This contains types, enums and methods to configure descriptors settings of the multiplexer part in the device.

- [Others](#)

This contains types, enums and methods to configure other settings of the multiplexer part in the device.

- [PSIP](#)

This module contains types, enums and methods related to ATSC PSIP (Program and System Information Protocol)

8.7.1 Detailed Description

This contains types, enums and methods to configure the multiplexer part of the device.

8.8 TS

This contains types, enums and methods to configure the TSs of the multiplexer part in the device.

Collaboration diagram for TS:



Classes

- struct `DCM::DeviceControl::IPS_UDP_Socket_t`
The socket describes the IP address & UDP port on which a TS is played out.
- struct `DCM::DeviceControl::IPS_InputTS_t`
Information of an incoming TS.
- struct `DCM::DeviceControl::IPS_Gbe_InputTS_t`
Gbe information of an incoming TS.
- struct `DCM::DeviceControl::Debug_Gbe_InputTS_t`
- struct `DCM::DeviceControl::IPS_ChangeInputTS_t`
Information to change an incoming TS.
- struct `DCM::DeviceControl::Debug_Gbe_OutputTS_t`
Information-Settings of an outgoing TS.
- struct `DCM::DeviceControl::IPS_OutputTS_t`
- struct `DCM::DeviceControl::IPS_OutputTS_V2_t`
Information-Settings of an outgoing TS.
- struct `DCM::DeviceControl::IPS_LookupTS_t`
Structure to find a specific TS by IP-address and UDP port.
- struct `DCM::DeviceControl::IPS_ReferenceTS_t`
Structure to find a specific TS by IP-address and UDP port.
- struct `DCM::DeviceControl::IPS_OutPID_Data_t`
Used for PID passing by `IPS_OutPID_AddL()`, `IPS_OutPID_GetL()` and `IPS_OutPID_DeleteL()`
- struct `DCM::DeviceControl::IPS_OutPID_Data2_t`
- struct `DCM::DeviceControl::IPS_InPID_Data_t`
- struct `DCM::DeviceControl::IPS_InPID_Data_V2_t`
- struct `DCM::DeviceControl::InEMM_Ref_t`
Identification of which PID to be created/deleted. Note this is duplicated by `RefPid_t` but must remain for backwards compatability.
- struct `DCM::DeviceControl::EMM_Data_t`
Identification of EMMG EMMs.
- struct `DCM::DeviceControl::Ref_SI_table_ext_t`
- struct `DCM::DeviceControl::SI_Table_Period_t`
- struct `DCM::DeviceControl::SI_Table_GenerationMode_t`

Generation mode for SI tables.

- struct `DCM::DeviceControl::TS_SI_Table_Periods_t`
- struct `DCM::DeviceControl::TableKeys_t`
- struct `DCM::DeviceControl::TOT_Timezone_t`

Structure that represents required data to construct TOT descriptor.

- struct `DCM::DeviceControl::TS_TOT_Timezone_t`

Structure that represents required data to construct all TOT descriptors on a specific TS.

- struct `DCM::DeviceControl::RoutingStatusRecord_t`

Structure that contains information about one error that occurred during routing file upload (pre-config - IPS_ProcessRoutingFile)

- struct `DCM::DeviceControl::IPS_RefPid_t`

Note RefPid_t is effectively a copy of InEMM_Ref_t but that must remain for compatability.

- struct `DCM::DeviceControl::CompPidES_t`

Identification of muxed pids.

- struct `DCM::DeviceControl::CompPidES_V2_t`
- struct `DCM::DeviceControl::TS_AutoPassRules`

MPTS pass through settings.

- struct `DCM::DeviceControl::TS_AutoPassRulesDisableFlags`

MPTS Passthrough disable flags.

- struct `DCM::DeviceControl::DefaultAutoPassRules`

Default Service component behaviour.

- struct `DCM::DeviceControl::Service_AutoPassRules`

Service component behaviour.

- struct `DCM::DeviceControl::SI_AutoPassRules_t`
- struct `DCM::DeviceControl::OutTS_InsertCATDescriptors_t`
- struct `DCM::DeviceControl::TimeBaseSelectionMode_t`
- struct `DCM::DeviceControl::InTS_TimeBaseSelectionMode_t`
- struct `DCM::DeviceControl::BoardDejitterCfg_t`
- struct `DCM::DeviceControl::TimeBaseSelectionMode_V2_t`
- struct `DCM::DeviceControl::InTS_TimeBaseSelectionMode_V2_t`
- struct `DCM::DeviceControl::InTsExistenceReasons_t`

Input Transport stream reason for existence bitmap.

- struct `DCM::DeviceControl::GbeIO_IP_Settings_t`
- struct `DCM::DeviceControl::ForbiddenPidRange_t`
- struct `DCM::DeviceControl::OutTS_NitInPat_t`

NIT in PAT setting for specific TS.

- struct `DCM::DeviceControl::PriorityBitMode_t`

Compact CA descriptor setting (per input TS)

- struct `DCM::DeviceControl::InTS_PriorityBit_t`

Information to change the priority bit of the MPEG packets of an incoming TS.

- struct `DCM::DeviceControl::IPS_OutputTS_LT_t`
- struct `DCM::DeviceControl::IPS_OutputTS_LT_V2_t`
- struct `DCM::DeviceControl::PortTsSvcProps_t`

Typedefs

- typedef sequence< IPS_RefTS_t > DCM::DeviceControl::IPS_RefTS_List_t
A sequence of *IPS_RefTS_t*.
- typedef sequence< unsigned long > DCM::DeviceControl::Ref_List_t
List of Ref's (In this case TS index's) to allow filtering.
- typedef sequence < Debug_Gbe_InputTS_t > DCM::DeviceControl::Debug_Gbe_InputTS_List_t
A sequence of *IPS_Gbe_InputTS_t* entries.
- typedef sequence< IPS_InputTS_t > DCM::DeviceControl::IPS_InputTS_List_t
A sequence of *IPS_InputTS_t* entries.
- typedef sequence < IPS_Gbe_InputTS_t > DCM::DeviceControl::IPS_Gbe_InputTS_List_t
A sequence of *IPS_Gbe_InputTS_t* entries.
- typedef sequence < IPS_ChangeInputTS_t > DCM::DeviceControl::IPS_ChangeInputTS_List_t
A sequence of *IPS_ChangeInputTS_t* entries.
- typedef sequence < Debug_Gbe_OutputTS_t > DCM::DeviceControl::Debug_Gbe_OutputTS_List_t
A sequence of *Debug_Gbe_OutputTS_t* entries.
- typedef sequence< IPS_OutputTS_t > DCM::DeviceControl::IPS_OutputTS_List_t
A sequence of *IPS_OutputTS_t* entries.
- typedef sequence < IPS_OutputTS_V2_t > DCM::DeviceControl::IPS_OutputTS_List_V2_t
A sequence of *IPS_OutputTS_V2_t* entries.
- typedef sequence< IPS_LookupTS_t > DCM::DeviceControl::IPS_LookupTS_List_t
A sequence of *IPS_LookupTS_t* entries.
- typedef sequence < IPS_ReferenceTS_t > DCM::DeviceControl::IPS_ReferenceTS_List_t
A sequence of *IPS_ReferenceTS_t* entries.
- typedef sequence < IPS_OutPID_Data_t > DCM::DeviceControl::IPS_OutPID_DataList_t
A sequence of *IPS_OutPID_Data_t*.
- typedef sequence < IPS_OutPID_Data2_t > DCM::DeviceControl::IPS_OutPID_Data2List_t
A sequence of *IPS_OutPID_Data2_t*.
- typedef sequence < IPS_InPID_Data_t > DCM::DeviceControl::IPS_In_PID_List_t
A sequence of *IPS_InPID_Data_t*.
- typedef sequence < IPS_InPID_Data_V2_t > DCM::DeviceControl::IPS_In_PID_List_V2_t
A sequence of *IPS_InPID_Data_V2_t*.
- typedef sequence< InEMM_Ref_t > DCM::DeviceControl::InEMM_RefList_t
A sequence of *InEMM_Ref_t*.
- typedef sequence< EMM_Data_t > DCM::DeviceControl::EMM_DataList_t
a sequence of *EMM_Data_t*
- typedef sequence < SI_Table_Period_t > DCM::DeviceControl::SI_Table_Period_List_t
- typedef sequence < SI_Table_GenerationMode_t > DCM::DeviceControl::SI_Table_Generation-Mode_List_t
- typedef sequence < TS_SI_Table_Periods_t > DCM::DeviceControl::TS_SI_Table_Periods_List_t
- typedef sequence< TableKeys_t > DCM::DeviceControl::TableKeys_List_t
- typedef sequence< TOT_Timezone_t > DCM::DeviceControl::TOT_Timezone_List_t
- typedef sequence < TS_TOT_Timezone_t > DCM::DeviceControl::TS_TOT_Timezone_List_t
- typedef sequence< char > DCM::DeviceControl::RoutingFileData_t
- typedef sequence < RoutingStatusRecord_t > DCM::DeviceControl::RoutingStatusRecord_List_t
- typedef sequence< char > DCM::DeviceControl::charSequence

- typedef sequence< IPS_RefPid_t > DCM::DeviceControl::IPS_RefPidList_t
A sequence of [IPS_RefPid_t](#).
- typedef sequence< unsigned short > DCM::DeviceControl::PID_List_t
PID range: 0..8190.
- typedef sequence< CompPidES_t > DCM::DeviceControl::CompPidESList_t
A sequence of [CompPidES_t](#).
- typedef sequence< CompPidES_V2_t > DCM::DeviceControl::CompPidESList_V2_t
A sequence of [CompPidES_V2_t](#).
- typedef sequence < TS_AutoPassRules > DCM::DeviceControl::TS_AutoPassRules_List_t
A sequence of [TS_AutoPassRules](#).
- typedef sequence < SI_AutoPassRules_t > DCM::DeviceControl::SI_AutoPassRules_List_t
- typedef sequence < OutTS_InsertCATDescriptors_t > DCM::DeviceControl::OutTS_InsertCAT-
Descriptors_List_t
- typedef sequence < InTS_TimeBaseSelectionMode_t > DCM::DeviceControl::InTS_TimeBaseSelection-
Mode_List_t
- typedef sequence < InTS_TimeBaseSelectionMode_V2_t > DCM::DeviceControl::InTS_TimeBase-
SelectionMode_List_V2_t
- typedef sequence < InTsExistenceReasons_t > DCM::DeviceControl::InTsExistenceReasonsList_
t
A sequence of [InTsExistenceReasons_t](#).
- typedef sequence < GbeIO_IP_Settings_t > DCM::DeviceControl::GbeIO_IP_Settings_List_t
A sequence of [GbeIO_IPv6_t](#) entries.
- typedef sequence < ForbiddenPidRange_t > DCM::DeviceControl::ForbiddenPidRange_List_t
A sequence of [ForbiddenPidRange_t](#) entries.
- typedef sequence < OutTS_NitInPat_t > DCM::DeviceControl::OutTS_NitInPat_List_t
- typedef sequence < InTS_PriorityBit_t > DCM::DeviceControl::InTS_PriorityBit_List_t
A sequence of [ChangePrioBitInputTS_t](#) entries.
- typedef sequence < IPS_OutputTS_LT_t > DCM::DeviceControl::IPS_OutputTS_LT_List_t
A sequence of [IPS_OutputTS_LT_t](#) entries.
- typedef sequence < IPS_OutputTS_LT_V2_t > DCM::DeviceControl::IPS_OutputTS_LT_List_
V2_t
A sequence of [IPS_OutputTS_LT_V2_t](#) entries.
- typedef sequence < PortTsSvcProps_t > DCM::DeviceControl::PortTsSvcProps_List_t
- typedef sequence < enOperatingMode_t > DCM::DeviceControl::OperatingMode_List_t

Enumerations

- enum DCM::DeviceControl::eIPS_IncrScheme { DCM::DeviceControl::IPS_Incr_IP, DCM::Device-
Control::IPS_Incr_Port1, DCM::DeviceControl::IPS_Incr_Port2, DCM::DeviceControl::IPS_Incr_
IP1_Port1 }
Used by [IPS_OutDefaultsSet\(\)](#) and [IPS_OutDefaultsGet\(\)](#) indicating how the next socket must be generated.
- enum DCM::DeviceControl::eEsTypeStandard { DCM::DeviceControl::eTransparent, DCM::Device-
Control::eDVB, DCM::DeviceControl::eATSC, DCM::DeviceControl::eMOTOROLA, DCM::Device-
Control::eForceUplink, DCM::DeviceControl::eForceVideo, DCM::DeviceControl::eForceAudio3 }
- Transport stream type to guide interpretation and play out of elementary stream types.*
- enum DCM::DeviceControl::eIPS_StreamingState { DCM::DeviceControl::IPS_Streaming_Active,
DCM::DeviceControl::IPS_Streaming_Paused }

Describes if the TS is streaming or not.

- enum `DCM::DeviceControl::enStreamingSetting_t` { `DCM::DeviceControl::eStreamingSetting_On`, `DCM::DeviceControl::eStreamingSetting_Off`, `DCM::DeviceControl::eStreamingSetting_Auto`, `DCM::DeviceControl::eStreamingSetting_Reserved4`, `DCM::DeviceControl::eStreamingSetting_Reserved5`, `DCM::DeviceControl::eStreamingSetting_Reserved6`, `DCM::DeviceControl::eStreamingSetting_Reserved7`, `DCM::DeviceControl::eStreamingSetting_Reserved8`, `DCM::DeviceControl::eStreamingSetting_Reserved9`, `DCM::DeviceControl::eStreamingSetting_Reserved10` }

Describes when the TS should stream.

- enum `DCM::DeviceControl::ePID_Type` { `DCM::DeviceControl::ePID_TypeEMM`, `DCM::DeviceControl::ePID_TypeUnref`, `DCM::DeviceControl::ePID_TypeForced`, `DCM::DeviceControl::ePID_TypePrivateDataEMMG` }

PID types.

- enum `DCM::DeviceControl::eMpegStandard` { `DCM::DeviceControl::eStdMpeg2`, `DCM::DeviceControl::eStdDvb`, `DCM::DeviceControl::eStdATSC` }
- enum `DCM::DeviceControl::ePIDPassingStatus` { `DCM::DeviceControl::ePID_StatusBlockedByUser`, `DCM::DeviceControl::ePID_StatusPassed`, `DCM::DeviceControl::ePID_StatusGenerated`, `DCM::DeviceControl::ePID_StatusBlockedBySystem`, `DCM::DeviceControl::ePID_StatusNotPassed`, `DCM::DeviceControl::ePID_StatusTransparent`, `DCM::DeviceControl::ePID_StatusTransparentRegeneration`, `DCM::DeviceControl::ePID_StatusStopped`, `DCM::DeviceControl::ePID_StatusBlockedByDPI`, `DCM::DeviceControl::ePID_StatusBlockedByTsRule`, `DCM::DeviceControl::ePID_StatusBlockedBySvcRule` }

Pid passing and blocking statuses.

- enum `DCM::DeviceControl::ePIDPassingStatus_V2` { `DCM::DeviceControl::ePID_Status_V2_BlockedByUser`, `DCM::DeviceControl::ePID_Status_V2_Passed`, `DCM::DeviceControl::ePID_Status_V2_Generated`, `DCM::DeviceControl::ePID_Status_V2_BlockedBySystem`, `DCM::DeviceControl::ePID_Status_V2_NotPassed`, `DCM::DeviceControl::ePID_Status_V2_Transparent`, `DCM::DeviceControl::ePID_Status_V2_TransparentRegeneration`, `DCM::DeviceControl::ePID_Status_V2_Stopped`, `×` `DCM::DeviceControl::ePID_Status_V2_BlockedByDPI`, `DCM::DeviceControl::ePID_Status_V2_BlockedByTsRule`, `DCM::DeviceControl::ePID_Status_V2_BlockedBySvcRule`, `DCM::DeviceControl::ePID_Status_V2_AutoPassed`, `DCM::DeviceControl::ePID_Status_V2_Reserved12`, `DCM::DeviceControl::ePID_Status_V2_Reserved13`, `DCM::DeviceControl::ePID_Status_V2_Reserved14`, `DCM::DeviceControl::ePID_Status_V2_Reserved15`, `DCM::DeviceControl::ePID_Status_V2_Reserved16`, `DCM::DeviceControl::ePID_Status_V2_Reserved17`, `DCM::DeviceControl::ePID_Status_V2_Reserved18`, `DCM::DeviceControl::ePID_Status_V2_Reserved19`, `DCM::DeviceControl::ePID_Status_V2_Reserved20`, `DCM::DeviceControl::ePID_Status_V2_Reserved21`, `DCM::DeviceControl::ePID_Status_V2_Reserved22`, `DCM::DeviceControl::ePID_Status_V2_Reserved23`, `DCM::DeviceControl::ePID_Status_V2_Reserved24`, `DCM::DeviceControl::ePID_Status_V2_Reserved25`, `DCM::DeviceControl::ePID_Status_V2_Reserved26`, `DCM::DeviceControl::ePID_Status_V2_Reserved27`, `DCM::DeviceControl::ePID_Status_V2_Reserved28`, `DCM::DeviceControl::ePID_Status_V2_Reserved29`, `DCM::DeviceControl::ePID_Status_V2_Reserved30`, `DCM::DeviceControl::ePID_Status_V2_Reserved31`, `DCM::DeviceControl::ePID_Status_V2_Reserved32`, `DCM::DeviceControl::ePID_Status_V2_Reserved33`, `DCM::DeviceControl::ePID_Status_V2_Reserved34`, `DCM::DeviceControl::ePID_Status_V2_Reserved35`, `DCM::DeviceControl::ePID_Status_V2_Reserved36`, `DCM::DeviceControl::ePID_Status_V2_Reserved37`, `DCM::DeviceControl::ePID_Status_V2_Reserved38`, `DCM::DeviceControl::ePID_Status_V2_Reserved39` }

Pid passing and blocking statuses.

- enum `DCM::DeviceControl::eRoutingStatusResult` { `DCM::DeviceControl::eRoutingResultSuccess`, `DCM::DeviceControl::eRoutingStatusSuccessWithWarnings`, `DCM::DeviceControl::eRoutingStatusSuccessWithErrors`, `DCM::DeviceControl::eRoutingStatusFatalError` }

Result of routing file upload operation (pre-config - IPS_ProcessRoutingFile)

- enum `DCM::DeviceControl::eRoutingStatusSeverity` { `DCM::DeviceControl::eRoutingStatusWarning`, `DCM::DeviceControl::eRoutingStatusError`, `DCM::DeviceControl::eRoutingStatusFatal` }

Severity of error that occurred during routing file upload (pre-config - IPS_ProcessRoutingFile)

- enum `DCM::DeviceControl::eNitInPat` { `DCM::DeviceControl::NitInPatOff`, `DCM::DeviceControl::NitInPatOn`, `DCM::DeviceControl::NitInPatAuto` }
NIT in PAT mode.
- enum `DCM::DeviceControl::eInsertCATDescriptors` { `DCM::DeviceControl::eInsertCATDescriptorsOnlyGenerated`, `DCM::DeviceControl::eInsertCATDescriptorsGeneratedAndImported` }
Insert CAT Descriptors.
- enum `DCM::DeviceControl::eTimeBaseSelectionMode` { `DCM::DeviceControl::eTBS_Auto`, `DCM::DeviceControl::eTBS_AutoReferredPCR`, `DCM::DeviceControl::eTBS_ForcedPCR`, `DCM::DeviceControl::eTBS_CBR_Auto`, `DCM::DeviceControl::eTBS_CBR_AutoReferredPCR`, `DCM::DeviceControl::eTBS_CBR_ForcedPCR` }
- enum `DCM::DeviceControl::eTimeBaseSelectionMode_V2` { `DCM::DeviceControl::eTBS_V2_Auto`, `DCM::DeviceControl::eTBS_V2_AutoReferredPCR`, `DCM::DeviceControl::eTBS_V2_ForcedPCR`, `DCM::DeviceControl::eTBS_V2_CBR_Auto`, `DCM::DeviceControl::eTBS_V2_CBR_AutoReferredPCR`, `DCM::DeviceControl::eTBS_V2_CBR_ForcedPCR`, `DCM::DeviceControl::eTBS_V2_Reserved1`, `DCM::DeviceControl::eTBS_V2_Reserved2`, `DCM::DeviceControl::eTBS_V2_Reserved3`, `DCM::DeviceControl::eTBS_V2_Reserved4`, `DCM::DeviceControl::eTBS_V2_Reserved5`, `DCM::DeviceControl::eTBS_V2_Reserved6`, `DCM::DeviceControl::eTBS_V2_Reserved7`, `DCM::DeviceControl::eTBS_V2_Reserved8`, `DCM::DeviceControl::eTBS_V2_Reserved9` }
- enum `DCM::DeviceControl::ePriorityBitMode` { `DCM::DeviceControl::eTPB_Transparent`, `DCM::DeviceControl::eTPB_ForceToZero`, `DCM::DeviceControl::eTPB_ForceToOne` }
Input Transport stream setting that defines how the priority bit in the MPEG header of the incoming packets should be manipulated.

Functions

- `IPS_ReferenceTS_List_t DCM::DeviceControl::IPS_Lookup_TSs` (in unsigned short BoardNumber, in `IPS_LookupTS_List_t` LookUpTS_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed, OutOfRange)
Gets the TS indexes for a number of transport streams.
- `IPS_ReferenceTS_List_t DCM::DeviceControl::IPS_FindTSs` (in unsigned short BoardNumber, in `IPS_LookupTS_List_t` LookUpTS_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Gets the TS indexes for a number of transport streams.
- `void DCM::DeviceControl::ReserveInputTS` (in `IPS_RefTS_t` TS, in unsigned long Reserve) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Reserves input TS If a TS is created and not used (no services or PIDs passed from that TS or TS has no input settings) and the TS is not present at the input, it will be deleted after two minutes.
- `IPS_InputTS_List_t DCM::DeviceControl::IPS_InTS_GetL` (in `IPS_Ref_t` PhysRef, in `Ref_List_t` RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get a list of incoming transport streams.
- `IPS_Gbe_InputTS_List_t DCM::DeviceControl::IPS_Gbe_InTS_GetL` (in `IPS_Ref_t` PhysRef, in `Ref_List_t` RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get a list of Gbe information of incoming transport streams.
- `Debug_Gbe_InputTS_List_t DCM::DeviceControl::DebugGbeStreamInGetL` (in `IPS_Ref_t` PhysRef, in `Ref_List_t` RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get a list of Gbe information of incoming transport streams.
- `void DCM::DeviceControl::InputTsExistenceGetL` (in `IPS_Ref_t` RefPhys, in `IPS_RefTS_List_t` RefTsList, out `InTsExistenceReasonsList_t` lst) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get reason of existence for some input TS.

- Debug_Gbe_OutputTS_List_t [DCM::DeviceControl::DebugGbeStreamOutGetL](#) (in IPS_Ref_t RefPhys, in Ref_List_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get a list of Gbe information of outgoing transport streams.
- void [DCM::DeviceControl::IPS_OutTS_AddL](#) (in IPS_Ref_t RefPhys, in unsigned long NbrOutTS, out IPS_OutputTS_List_t OutputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Create a number of TS on given Slot and Port based on the defined defaults ([IPS_OutDefaultsSet\(\)](#), [IPS_OutDefaultsGet\(\)](#)).
- void [DCM::DeviceControl::IPS_OutTS_AddL_V2](#) (in IPS_Ref_t RefPhys, in unsigned long NbrOutTS, out IPS_OutputTS_List_V2_t OutputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Create a number of TS on given Slot and Port based on the defined defaults ([IPS_OutDefaultsSet\(\)](#), [IPS_OutDefaultsGet\(\)](#)).
- void [DCM::DeviceControl::IPS_OutTS_ChangeL](#) (in IPS_Ref_t RefPhys, in IPS_OutputTS_List_t OutputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)
Change the parameters of one or more existing outgoing TS.
- void [DCM::DeviceControl::IPS_OutTS_ChangeL_V2](#) (in IPS_Ref_t RefPhys, in IPS_OutputTS_List_V2_t OutputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)
Change the parameters of one or more existing outgoing TS.
- void [DCM::DeviceControl::IPS_InTS_ChangeL](#) (in IPS_Ref_t RefPhys, in IPS_ChangeInputTS_List_t InputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Change the parameters of one or more existing incoming TS.
- IPS_OutputTS_List_t [DCM::DeviceControl::IPS_OutTS_GetL](#) (in IPS_Ref_t RefPhys, in Ref_List_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get a list of outgoing transport streams and their parameters.
- IPS_OutputTS_List_V2_t [DCM::DeviceControl::IPS_OutTS_GetL_V2](#) (in IPS_Ref_t RefPhys, in Ref_List_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get a list of outgoing transport streams and their parameters.
- void [DCM::DeviceControl::GbeIO_OutStreamIP_ChangeL](#) (in IPS_Ref_t RefPhys, in GbeIO_IP_Settings_List_t OutputGbeIO_StreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)
Change the IPv4 or IPv6 header parameters of one or more existing outgoing Gbe IO streams.
- GbeIO_IP_Settings_List_t [DCM::DeviceControl::GbeIO_OutStreamIP_GetL](#) (in IPS_Ref_t RefPhys, in Ref_List_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the IPv4 or IPv6 parameters for a list of outgoing transport streams.
- IPS_OutputTS_List_t [DCM::DeviceControl::IPS_OutTS_GetFilteredL](#) (in IPS_Ref_t RefPhys, in Ref_List_t RefList, in boolean ScrambledOnly) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get a filtered list of outgoing transport streams and their parameters.
- IPS_OutputTS_List_V2_t [DCM::DeviceControl::IPS_OutTS_GetFilteredL_V2](#) (in IPS_Ref_t RefPhys, in Ref_List_t RefList, in boolean ScrambledOnly) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get a filtered list of outgoing transport streams and their parameters.
- void [DCM::DeviceControl::IPS_OutTS_DeleteL](#) (in IPS_Ref_t RefPhys, in IPS_RefTS_List_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Delete a list of TSs.

- void **DCM::DeviceControl::IPS_OutDefaultsSet** (in IPS_Ref_t RefPhys, in IPS_UDP_Socket_t - Socket, in long lBirate, in eIPS_IncrScheme Incr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set defaults for new TS created with IPS_OutTS_AddL().

- void **DCM::DeviceControl::IPS_OutDefaultsGet** (in IPS_Ref_t RefPhys, out IPS_UDP_Socket_t - Socket, out long lBirate, out eIPS_IncrScheme Incr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current set of defaults for a new TS.

- void **DCM::DeviceControl::SetDefault_SourceUdp** (in unsigned short Board, in unsigned short - SourceUdp) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default source UDP port number for a new TS.

- void **DCM::DeviceControl::GetDefault_SourceUdp** (in unsigned short Board, out unsigned short - SourceUdp) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current default source UDP port number for a new TS.

- void **DCM::DeviceControl::IPS_SetDefaultStandard** (in IPS_Ref_t RefPhys, in eEsTypeStandard eIn, in eEsTypeStandard eOut) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set defaults eEsTypeStandard for input and output for new TS.

- void **DCM::DeviceControl::IPS_GetDefaultStandard** (in IPS_Ref_t RefPhys, out eEsTypeStandard eIn, out eEsTypeStandard eOut) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current default eEsTypeStandard for input and output.

- void **DCM::DeviceControl::GetSI_DefaultPayoutPeriods** (in IPS_Ref_t RefPhys, out SI_Table_Period_List_t Periods) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

this gets the current defaults for all supported SI tables

- void **DCM::DeviceControl::SetSI_DefaultPayoutPeriods** (in IPS_Ref_t RefPhys, in SI_Table_Period_List_t Periods) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

this sets the defaults for any subset of the supported SI tables (or for all)

- void **DCM::DeviceControl::OutTS_GetSI_PayoutPeriods** (in IPS_Ref_t RefPhys, in IPS_RefTS_List_t TS_List, out TS_SI_Table_Periods_List_t Periods) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

this gets the payout periods for all supported SI tables for one or more TS

- void **DCM::DeviceControl::OutTS_SetSI_PayoutPeriods** (in IPS_Ref_t RefPhys, in TS_SI_Table_Periods_List_t Periods) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

this gets the payout periods for all supported SI tables for one or more TS

- void **DCM::DeviceControl::GetSI_DefaultGenerationModes** (in IPS_Ref_t RefPhys, out SI_Table_GenerationMode_List_t Modes) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

This gets the default generation mode of all supported SI tables for one or more TS.

- void **DCM::DeviceControl::SetSI_DefaultGenerationModes** (in IPS_Ref_t RefPhys, in SI_Table_GenerationMode_List_t Modes) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

This sets the default generation mode of all supported SI tables for one or more TS.

- void **DCM::DeviceControl::SetTOT_Timezones** (in IPS_Ref_t RefPhys, in TS_TOT_Timezone_List_t Timezones) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

This sets the TOT descriptor timezones for one or more TS's.

- void [DCM::DeviceControl::GetTOT_Timezones](#) (in IPS_Ref_t RefPhys, in IPS_RefTS_List_t TS_List, out TS_TOT_Timezone_List_t Timezones) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

This gets the TOT descriptor timezones for one or more TS's.

- void [DCM::DeviceControl::IPS_OutPID_GetL](#) (in IPS_RefTS_t RefTS, in ePID_Type PID_Type, out IPS_OutPID_Data2List_t PID_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the list of PID's on a OutputTS.

- void [DCM::DeviceControl::IPS_InPID_GetL](#) (in IPS_RefTS_t RefTS, in ePID_Type PID_Type, out IPS_In_PID_List_t PID_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the list of PID's on a InputTS.

- void [DCM::DeviceControl::IPS_InPID_GetL_V2](#) (in IPS_RefTS_t RefTS, in ePID_Type PID_Type, out IPS_In_PID_List_V2_t PID_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the list of PID's on a InputTS (including property bits).

- void [DCM::DeviceControl::IPS_OutEMM_AddL](#) (in IPS_RefTS_t RefTS_Out, in InEMM_RefList_t PID_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Routes a number of EMM pids to an output TS.

- void [DCM::DeviceControl::IPS_OutEMM_DelL](#) (in IPS_RefTS_t RefTS_Out, in InEMM_RefList_t PID_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Removes the routing for a number of EMM pids to an output TS.

- void [DCM::DeviceControl::InEMM_GetL](#) (in InEMM_RefList_t EMM_RefList, out EMM_DataList_t EMM_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the list of additional information of all EMM's/PD's at the output.

- void [DCM::DeviceControl::SetDefaultForbiddenPidRanges](#) (in unsigned short SlotNumber, in ForbiddenPidRange_List_t RangeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets a number of default Forbidden Output PID ranges (PIDs that may not be used at the Output).

- void [DCM::DeviceControl::GetDefaultForbiddenPidRanges](#) (in unsigned short SlotNumber, out ForbiddenPidRange_List_t RangeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the default forbidden pid ranges.

- void [DCM::DeviceControl::SetForbiddenPidRanges](#) (in IPS_RefTS_t RefTS, in ForbiddenPidRange_List_t RangeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets a number of Forbidden Output PID ranges (PIDs that may not be used at the Output).

- void [DCM::DeviceControl::GetForbiddenPidRanges](#) (in IPS_RefTS_t RefTS, out ForbiddenPidRange_List_t RangeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the forbidden pid ranges for a specific output transport stream.

- void [DCM::DeviceControl::IPS_OutPID_AddL](#) (in IPS_Ref_t RefPhys, in IPS_OutPID_DataList_t PID_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Passes a list of (unreferenced) PID's to an OutputTS.

- void [DCM::DeviceControl::IPS_OutPID_DeleteL](#) (in IPS_Ref_t RefPhys, in IPS_OutPID_DataList_t PID_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Deletes the list of PID's on a OutputTS.

- void [DCM::DeviceControl::IPS_ProcessRoutingFile](#) (in RoutingFileData_t FileData) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Process the upload of a routing file.

- void [DCM::DeviceControl::IPS_RoutingFileProgress](#) (out boolean Finished, out long CurrentValue, out long TotalValue) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Indicates the progress of the upload of a routing file.

- void **DCM::DeviceControl::IPS_RoutingFileStatus** (out eRoutingStatusResult Result, out RoutingStatusRecord_List_t StatusRecords) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Indicates the status of the upload of a routing file.

- void **DCM::DeviceControl::IPS_RetrieveRoutingFile** (in char Separator, in char DecimalPoint, in charSequence EOLMarker, out RoutingFileData_t FileData) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieve the current routing in CSV format.

- void **DCM::DeviceControl::OutTS_GetTSAutoPassRules** (in IPS_RefTS_t RefOutTS, out TS_AutoPassRules_List_t AutoPassRulesList, out TS_AutoPassRulesDisableFlags AutoPassRulesDisableFlags) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the Auto Pass Rules for an Output TS (MPTS Pass Through).

- void **DCM::DeviceControl::OutTS_SetTSAutoPassRules** (in IPS_RefTS_t RefOutTS, in TS_AutoPassRules_List_t AutoPassRulesList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the Auto Pass Rules for an Output TS (MPTS Pass Through).

- void **DCM::DeviceControl::SetDefaultAutoPassRules** (in unsigned short BoardNr, in DefaultAutoPassRules rules) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the board default auto pass rules for service component passing.

- void **DCM::DeviceControl::GetDefaultAutoPassRules** (in unsigned short BoardNr, out DefaultAutoPassRules rules) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the board default auto pass rules for service component passing.

- void **DCM::DeviceControl::OutTS_GetServiceAutoPassRules** (in IPS_RefTS_t RefOutTS, out Service_AutoPassRules AutoPassRules) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current service component auto pass rules.

- void **DCM::DeviceControl::OutTS_SetServiceAutoPassRules** (in IPS_RefTS_t RefOutTS, in Service_AutoPassRules AutoPassRules) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set service component auto pass rules.

- void **DCM::DeviceControl::OutTS_SetSubtableAutoPass** (in IPS_RefTS_t RefOutTS, in SI_AutoPassRules_List_t SI_AutoPassRules_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set SI subtable auto pass rules.

- void **DCM::DeviceControl::OutTS_GetSubtableAutoPass** (in IPS_RefTS_t RefOutTS, out SI_AutoPassRules_List_t SI_AutoPassRules_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current SI subtable auto pass rules.

- void **DCM::DeviceControl::OutTS_NitInPat_SetL** (in IPS_Ref_t RefPhys, in OutTS_NitInPat_List_t OutTS_NitInPat_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set TS NIT in PAT mode.

- void **DCM::DeviceControl::OutTS_NitInPat_GetL** (in IPS_Ref_t RefPhys, in IPS_RefTS_List_t - RefTsList, out OutTS_NitInPat_List_t OutTS_NitInPat_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get TS NIT in PAT mode.

- void **DCM::DeviceControl::SetDefault_NitInPat** (in unsigned short BoardNumber, in eNitInPat NitInPat) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default Nit in PAT mode settings to be used for newly created output TSs Defaults are attached to a board.

- void [DCM::DeviceControl::GetDefault_NitInPat](#) (in unsigned short BoardNumber, out eNitInPat - NitInPat) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get default Nit in Pat mode setting Defaults are attached to a board.
- void [DCM::DeviceControl::OutTS_InsertCATDescriptors_SetL](#) (in IPS_Ref_t RefPhys, in OutTS_InsertCATDescriptors_List_t OutTS_InsertCATDescriptors_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
Set TS Insert CAT Descriptors mode.
- void [DCM::DeviceControl::OutTS_InsertCATDescriptors_GetL](#) (in IPS_Ref_t RefPhys, in IPS_RefTS_List_t RefTsList, out OutTS_InsertCATDescriptors_List_t OutTS_InsertCATDescriptors_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
Get TS Insert CAT Descriptors mode.
- void [DCM::DeviceControl::SetDefault_InsertCATDescriptors](#) (in unsigned short BoardNumber, in eInsertCATDescriptors InsertCATDescriptors) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
Set default Insert CAT Descriptors mode settings to be used for newly created output TSs Defaults are attached to a board.
- void [DCM::DeviceControl::GetDefault_InsertCATDescriptors](#) (in unsigned short BoardNumber, out eInsertCATDescriptors InsertCATDescriptors) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
Get default Insert CAT Descriptors mode setting Defaults are attached to a board.
- void [DCM::DeviceControl::TimeBaseSelectionMode_SetL](#) (in IPS_Ref_t RefPhys, in InTS_TimeBaseSelectionMode_List_t TBS_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the Time Base Selection Mode for a list of input TSs.
- void [DCM::DeviceControl::TimeBaseSelectionMode_GetL](#) (in IPS_Ref_t RefPhys, in IPS_RefTS_List_t RefTsList, out InTS_TimeBaseSelectionMode_List_t TBS_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the Time Base Selection Mode for a list of input TSs.
- void [DCM::DeviceControl::TimeBaseSelectionMode_DeL](#) (in IPS_Ref_t RefPhys, in IPS_RefTS_List_t RefTsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Revert the Time Base Selection Mode to default for a list of input TSs.
- void [DCM::DeviceControl::SetDefaultTimeBaseSelectionMode](#) (in unsigned short BoardNumber, in eTimeBaseSelectionMode TBS_Mode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set default Time Base Selection Mode to be used for newly created input TSs.
- void [DCM::DeviceControl::GetDefaultTimeBaseSelectionMode](#) (in unsigned short BoardNumber, out eTimeBaseSelectionMode TBS_Mode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get default Time Base Selection Mode that is used for newly created input TSs.
- void [DCM::DeviceControl::BoardDejitterCfgSet](#) (in unsigned short BoardNumber, in BoardDejitterCfg_t CfgIn) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the board default VBR and CBR latency.
- void [DCM::DeviceControl::BoardDejitterCfgGet](#) (in unsigned short BoardNumber, out BoardDejitterCfg_t CfgOut) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the board default VBR and CBR latency.
- void [DCM::DeviceControl::TimeBaseSelectionMode_V2_SetL](#) (in IPS_Ref_t RefPhys, in InTS_TimeBaseSelectionMode_List_V2_t TBS_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
Set the Time Base Selection Mode for a list of input TSs.

- void `DCM::DeviceControl::TimeBaseSelectionMode_V2_GetL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`, out `InTS_TimeBaseSelectionMode_List_V2_t TBS_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the Time Base Selection Mode for a list of input TSs.

- void `DCM::DeviceControl::SetDefaultTBSMode_V2` (in unsigned short BoardNumber, in `eTimeBaseSelectionMode_V2 TBS_Mode`, in boolean FastLock) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default Time Base Selection Mode to be used for newly created input TSs.

- void `DCM::DeviceControl::GetDefaultTBSMode_V2` (in unsigned short BoardNumber, out `eTimeBaseSelectionMode_V2 TBS_Mode`, out boolean FastLock) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default Time Base Selection Mode that is used for newly created input TSs.

- void `DCM::DeviceControl::InTS_PriorityBits_SetL` (in `IPS_Ref_t RefPhys`, in `InTS_PriorityBit_List_t InTS_PriorityBit_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Change the transport priority bit behavior for one or more existing incoming TS.

- `InTS_PriorityBit_List_t DCM::DeviceControl::InTS_PriorityBits_GetL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of transport priority bit settings for a number of incoming transport streams.

- void `DCM::DeviceControl::InTS_PriorityBits_DelL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Revert the Priority Bit setting to default for a list of input TSs.

- void `DCM::DeviceControl::SetDefaultPriorityBit` (in unsigned short SlotNbr, in `ePriorityBitMode PriorityBitSetting`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set default priority setting for new input TS.

- void `DCM::DeviceControl::GetDefaultPriorityBit` (in unsigned short SlotNbr, out `ePriorityBitMode PriorityBitSetting`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current default PrioBitSetting.

- void `DCM::DeviceControl::SetPassMotorolaTables` (in unsigned short BoardNumber, in boolean Pass) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the Pass Motorola C0/C1 table setting.

- void `DCM::DeviceControl::GetPassMotorolaTables` (in unsigned short BoardNumber, out boolean Pass) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current Pass Motorola C0/C1 table setting.

- void `DCM::DeviceControl::IPS_OutTS_LT_AddL` (in `IPS_Ref_t RefPhys`, in `IPS_OutputTS_LT_List_t OutputTSList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Create a number of Transparent Loop Through TSs on given Slot and Port.

- void `DCM::DeviceControl::IPS_OutTS_LT_AddL_V2` (in `IPS_Ref_t RefPhys`, in `IPS_OutputTS_LT_List_V2_t OutputTSList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Create a number of Transparent Loop Through TSs on given Slot and Port.

- void `DCM::DeviceControl::IPS_OutTS_LT_ChangeL` (in unsigned short BoardNumber, in `IPS_OutputTS_LT_List_t OutputTSList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Change the parameters of one or more existing outgoing TS.

- void `DCM::DeviceControl::IPS_OutTS_LT_ChangeL_V2` (in unsigned short BoardNumber, in `IPS_OutputTS_LT_List_V2_t OutputTSList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Change the parameters of one or more existing outgoing TS.

- `IPS_OutputTS_LT_List_t DCM::DeviceControl::IPS_OutTS_LT_GetL` (in `IPS_Ref_t RefPhys`, in `Ref_List_t RefList`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of outgoing Transparent Loop Through TSs and their parameters.

- `IPS_OutputTS_LT_List_V2_t DCM::DeviceControl::IPS_OutTS_LT_GetL_V2` (in `IPS_Ref_t RefPhys`, in `Ref_List_t RefList`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of outgoing Transparent Loop Through TSs and their parameters.

- `PortTsSvcProps_List_t DCM::DeviceControl::PortInTsSvcPropsGetL` (in `IPS_Ref_t RefPhys`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the aggregated TS and Service Properties per Input Port.

- `PortTsSvcProps_List_t DCM::DeviceControl::PortOutTsSvcPropsGetL` (in `IPS_Ref_t RefPhys`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the aggregated TS and Service Properties per Output Port.

- `IPS_OutputTS_List_V2_t DCM::DeviceControl::IPS_OutTS_GetFilteredL_V3` (in `IPS_Ref_t RefPhys`, in `Ref_List_t RefList`, in boolean `ScrambledOnly`, in `OperatingMode_List_t OperatingModes`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a filtered list of outgoing transport streams and their parameters.

Variables

- const unsigned long `DCM::DeviceControl::INVALID_REF` = 0xffffffff

Undefined Ref.

- const unsigned long `DCM::DeviceControl::ANY_REF` = 0xffffffff

Only for input parameters.

- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_TS_EMMS_PRESENT` = 0x1
- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_TS_UNREF_PIDS_PRESENT` = 0x2
- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_TS_PRIV_DATA_EMMG` = 0x4
- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_TS_RTP_ON` = 0x8
- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_TS_VLAN_ON` = 0x10

May be senseless on input but let's try to be symmetrically.

- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_TS_VBR_ON` = 0x20

May be senseless on input but let's try to be symmetrically.

- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_TS_ROUTED` = 0x40

Will be set when any component is routed to an output.

- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_TS_INPUT_PRESENT` = 0x80

Will be set when there is signal detected.

- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_TS_ALARM_ACTIVE` = 0x100

Will be set when Asi sync Loss of UDP Stream Loss detected.

- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_TS_FEC_COL_PRESENT` = 0x200

Will be set when FEC column stream is present.

- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_TS_FEC_ROW_PRESENT` = 0x400

Will be set when FEC row stream is present.

- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_TS_IN_BACKUP` = 0x800

Will be set when TS is in Backup.

- const unsigned long [DCM::DeviceControl::BITMAP_INPUT_TS_UNREF_PIDS_ROUTED](#) = 0x1000

Will be set when unreferenced PIDs are routed.

- const unsigned long [DCM::DeviceControl::BITMAP_INPUT_TS_TSLOSS_ALARM_ACTIVE](#) = 0x2000

Will be set when TsLoss Alarm is active (backup trigger).

- const unsigned long [DCM::DeviceControl::BITMAP_OUTPUT_TS_EMMS_PRESENT](#) = 0x1
- const unsigned long [DCM::DeviceControl::BITMAP_OUTPUT_TS_UNREF_PIDS_PRESENT](#) = 0x2
- const unsigned long [DCM::DeviceControl::BITMAP_OUTPUT_TS_PRIV_DATA_EMMG](#) = 0x4
- const unsigned long [DCM::DeviceControl::BITMAP_OUTPUT_TS_RTP_ON](#) = 0x8
- const unsigned long [DCM::DeviceControl::BITMAP_OUTPUT_TS_VLAN_ON](#) = 0x10
- const unsigned long [DCM::DeviceControl::BITMAP_OUTPUT_TS_VBR_ON](#) = 0x20
- const unsigned long [DCM::DeviceControl::BITMAP_OUTPUT_TS_FEC_COL_PRESENT](#) = 0x200

Will be set when FEC column stream is enabled.

- const unsigned long [DCM::DeviceControl::BITMAP_OUTPUT_TS_FEC_ROW_PRESENT](#) = 0x400

Will be set when FEC row stream is enabled.

8.8.1 Detailed Description

This contains types, enums and methods to configure the TSs of the multiplexer part in the device.

8.8.2 Typedef Documentation

8.8.2.1 typedef sequence<char> DCM::DeviceControl::charSequence

Definition at line 2808 of file DCM.idl.

8.8.2.2 typedef sequence<CompPidES_t> DCM::DeviceControl::CompPidESList_t

A sequence of [CompPidES_t](#).

Definition at line 2832 of file DCM.idl.

8.8.2.3 typedef sequence<CompPidES_V2_t> DCM::DeviceControl::CompPidESList_V2_t

A sequence of [CompPidES_V2_t](#).

Definition at line 2850 of file DCM.idl.

8.8.2.4 typedef sequence<Debug_Gbe_InputTS_t> DCM::DeviceControl::Debug_Gbe_InputTS_List_t

A sequence of [IPS_Gbe_InputTS_t](#) entries.

Definition at line 2391 of file DCM.idl.

8.8.2.5 typedef sequence<Debug_Gbe_OutputTS_t> DCM::DeviceControl::Debug_Gbe_OutputTS_List_t

A sequence of [Debug_Gbe_OutputTS_t](#) entries.

Definition at line 2455 of file DCM.idl.

8.8.2.6 typedef sequence< EMM_Data_t > DCM::DeviceControl::EMM_DataList_t

a sequence of [EMM_Data_t](#)

Definition at line 2645 of file DCM.idl.

8.8.2.7 typedef sequence<ForbiddenPidRange_t> DCM::DeviceControl::ForbiddenPidRange_List_t

A sequence of [ForbiddenPidRange_t](#) entries.

Definition at line 3727 of file DCM.idl.

8.8.2.8 typedef sequence<GbeIO_IP_Settings_t> DCM::DeviceControl::GbeIO_IP_Settings_List_t

A sequence of [GbeIO_IPv6_t](#) entries.

Definition at line 3317 of file DCM.idl.

8.8.2.9 typedef sequence< InEMM_Ref_t > DCM::DeviceControl::InEMM_RefList_t

A sequence of [InEMM_Ref_t](#).

Definition at line 2630 of file DCM.idl.

8.8.2.10 typedef sequence<InTS_PriorityBit_t> DCM::DeviceControl::InTS_PriorityBit_List_t

A sequence of [ChangePrioBitInputTS_t](#) entries.

Definition at line 4356 of file DCM.idl.

8.8.2.11 typedef sequence<InTS_TimeBaseSelectionMode_t> DCM::DeviceControl::InTS_TimeBaseSelectionMode_List_t

Deprecated Use V2 structure instead

Definition at line 3000 of file DCM.idl.

8.8.2.12 typedef sequence<InTS_TimeBaseSelectionMode_V2_t> DCM::DeviceControl::InTS_TimeBaseSelectionMode_List_V2_t

Definition at line 3002 of file DCM.idl.

8.8.2.13 typedef sequence<InTsExistenceReasons_t> DCM::DeviceControl::InTsExistenceReasons_List_t

A sequence of [InTsExistenceReasons_t](#).

Definition at line 3141 of file DCM.idl.

8.8.2.14 typedef sequence<IPS_ChangeInputTS_t> DCM::DeviceControl::IPS_ChangeInputTS_List_t

A sequence of [IPS_ChangeInputTS_t](#) entries.

Definition at line 2435 of file DCM.idl.

8.8.2.15 typedef sequence<IPS_Gbe_InputTS_t> DCM::DeviceControl::IPS_Gbe_InputTS_List_t

A sequence of [IPS_Gbe_InputTS_t](#) entries.

Definition at line 2432 of file DCM.idl.

8.8.2.16 `typedef sequence<IPS_InPID_Data_t> DCM::DeviceControl::IPS_In_PID_List_t`

A sequence of [IPS_InPID_Data_t](#).

Definition at line 2609 of file DCM.idl.

8.8.2.17 `typedef sequence<IPS_InPID_Data_V2_t> DCM::DeviceControl::IPS_In_PID_List_V2_t`

A sequence of [IPS_InPID_Data_V2_t](#).

Definition at line 2620 of file DCM.idl.

8.8.2.18 `typedef sequence<IPS_InputTS_t> DCM::DeviceControl::IPS_InputTS_List_t`

A sequence of [IPS_InputTS_t](#) entries.

Definition at line 2429 of file DCM.idl.

8.8.2.19 `typedef sequence<IPS_LookupTS_t> DCM::DeviceControl::IPS_LookupTS_List_t`

A sequence of [IPS_LookupTS_t](#) entries.

Definition at line 2549 of file DCM.idl.

8.8.2.20 `typedef sequence<IPS_OutPID_Data2_t> DCM::DeviceControl::IPS_OutPID_Data2List_t`

A sequence of [IPS_OutPID_Data2_t](#).

Definition at line 2600 of file DCM.idl.

8.8.2.21 `typedef sequence<IPS_OutPID_Data_t> DCM::DeviceControl::IPS_OutPID_DataList_t`

A sequence of [IPS_OutPID_Data_t](#).

Definition at line 2565 of file DCM.idl.

8.8.2.22 `typedef sequence<IPS_OutputTS_t> DCM::DeviceControl::IPS_OutputTS_List_t`

A sequence of [IPS_OutputTS_t](#) entries.

Definition at line 2488 of file DCM.idl.

8.8.2.23 `typedef sequence<IPS_OutputTS_V2_t> DCM::DeviceControl::IPS_OutputTS_List_V2_t`

A sequence of [IPS_OutputTS_V2_t](#) entries.

Definition at line 2528 of file DCM.idl.

8.8.2.24 `typedef sequence<IPS_OutputTS_LT_t> DCM::DeviceControl::IPS_OutputTS_LT_List_t`

A sequence of [IPS_OutputTS_LT_t](#) entries.

Definition at line 4471 of file DCM.idl.

8.8.2.25 `typedef sequence<IPS_OutputTS_LT_V2_t> DCM::DeviceControl::IPS_OutputTS_LT_List_V2_t`

A sequence of [IPS_OutputTS_LT_V2_t](#) entries.

Definition at line 4491 of file DCM.idl.

8.8.2.26 typedef sequence<IPS_ReferenceTS_t> DCM::DeviceControl::IPS_ReferenceTS_List_t

A sequence of [IPS_ReferenceTS_t](#) entries.

Definition at line 2552 of file DCM.idl.

8.8.2.27 typedef sequence<IPS_RefPid_t> DCM::DeviceControl::IPS_RefPidList_t

A sequence of [IPS_RefPid_t](#).

Definition at line 2818 of file DCM.idl.

8.8.2.28 typedef sequence<IPS_RefTS_t> DCM::DeviceControl::IPS_RefTS_List_t

A sequence of [IPS_RefTS_t](#).

Definition at line 2292 of file DCM.idl.

8.8.2.29 typedef sequence<enOperatingMode_t> DCM::DeviceControl::OperatingMode_List_t

Definition at line 28879 of file DCM.idl.

8.8.2.30 typedef sequence<OutTS_InsertCATDescriptors_t> DCM::DeviceControl::OutTS_InsertCATDescriptors_List_t

Definition at line 2931 of file DCM.idl.

8.8.2.31 typedef sequence<OutTS_NitInPat_t> DCM::DeviceControl::OutTS_NitInPat_List_t

Definition at line 4011 of file DCM.idl.

8.8.2.32 typedef sequence<unsigned short> DCM::DeviceControl::PID_List_t

PID range: 0..8190.

Definition at line 2821 of file DCM.idl.

8.8.2.33 typedef sequence<PortTsSvcProps_t> DCM::DeviceControl::PortTsSvcProps_List_t

Definition at line 4645 of file DCM.idl.

8.8.2.34 typedef sequence<unsigned long> DCM::DeviceControl::Ref_List_t

List of Ref's (In this case TS index's) to allow filtering.

Definition at line 2295 of file DCM.idl.

8.8.2.35 typedef sequence<char> DCM::DeviceControl::RoutingFileData_t

Definition at line 2779 of file DCM.idl.

8.8.2.36 typedef sequence<RoutingStatusRecord_t> DCM::DeviceControl::RoutingStatusRecord_List_t

Definition at line 2806 of file DCM.idl.

8.8.2.37 typedef sequence<SI_AutoPassRules_t> DCM::DeviceControl::SI_AutoPassRules_List_t

Definition at line 2910 of file DCM.idl.

8.8.2.38 typedef sequence<SI_Table_GenerationMode_t> DCM::DeviceControl::SI_Table_GenerationMode_List_t

Definition at line 2741 of file DCM.idl.

8.8.2.39 typedef sequence<SI_Table_Period_t> DCM::DeviceControl::SI_Table_Period_List_t

Definition at line 2733 of file DCM.idl.

8.8.2.40 typedef sequence<TableKeys_t> DCM::DeviceControl::TableKeys_List_t

Definition at line 2758 of file DCM.idl.

8.8.2.41 typedef sequence<TOT_Timezone_t> DCM::DeviceControl::TOT_Timezone_List_t

Definition at line 2768 of file DCM.idl.

8.8.2.42 typedef sequence<TS_AutoPassRules> DCM::DeviceControl::TS_AutoPassRules_List_t

A sequence of [TS_AutoPassRules](#).

Definition at line 2864 of file DCM.idl.

8.8.2.43 typedef sequence<TS_SI_Table_Periods_t> DCM::DeviceControl::TS_SI_Table_Periods_List_t

Definition at line 2748 of file DCM.idl.

8.8.2.44 typedef sequence<TS_TOT_Timezone_t> DCM::DeviceControl::TS_TOT_Timezone_List_t

Definition at line 2777 of file DCM.idl.

8.8.3 Enumeration Type Documentation

8.8.3.1 enum DCM::DeviceControl::eEsTypeStandard

Transport stream type to guide interpretation and play out of elementary stream types.

This was formerly known as eOutputStandard.

Enumerator:

- eTransparent* Can only be used as output standard.
- eDVB* Can only be used as input standard;.
- eATSC* Can only be used as input standard.
- eMOTOROLA* Can only be used as input standard; Also known as Digicypher-II.
- eForceUplink* Can only be used as output standard.
- eForceVideo* Can only be used as output standard; Previously known as SA mode.
- eForceAudio3* Can only be used as output standard.

Definition at line 2319 of file DCM.idl.

8.8.3.2 enum DCM::DeviceControl::eInsertCATDescriptors

Insert CAT Descriptors.

Enumerator:

eInsertCATDescriptorsOnlyGenerated Only when mode is generated.

eInsertCATDescriptorsGeneratedAndImported Also when imported (not when pure import)

Definition at line 2921 of file DCM.idl.

8.8.3.3 enum DCM::DeviceControl::eIPS_IncrScheme

Used by [IPS_OutDefaultsSet\(\)](#) and [IPS_OutDefaultsGet\(\)](#) indicating how the next socket must be generated.

Enumerator:

IPS_Incr_IP Take IP address + 1.

IPS_Incr_Port1 Take UDP port + 1.

IPS_Incr_Port2 Take UDP port + 2.

IPS_Incr_IP1_Port1 Take IP address + 1 and UDP port + 1.

Definition at line 2300 of file DCM.idl.

8.8.3.4 enum DCM::DeviceControl::eIPS_StreamingState

Describes if the TS is streaming or not.

Enumerator:

IPS_Streaming_Active

IPS_Streaming_Paused

Definition at line 2402 of file DCM.idl.

8.8.3.5 enum DCM::DeviceControl::eMpegStandard**Enumerator:**

eStdMpeg2

eStdDvb

eStdATSC

Definition at line 2647 of file DCM.idl.

8.8.3.6 enum DCM::DeviceControl::eNitInPat

NIT in PAT mode.

Enumerator:

NitInPatOff NIT never in PAT.

NitInPatOn NIT always in PAT.

NitInPatAuto NIT in PAT when present (NIT mode != blocked) (default default)

Definition at line 2913 of file DCM.idl.

8.8.3.7 enum DCM::DeviceControl::enStreamingSetting_t

Describes when the TS should stream.

Enumerator:

eStreamingSetting_On TS should stream.

eStreamingSetting_Off TS should not stream.

eStreamingSetting_Auto TS should stream except for:

- ASI port - Auto will stop streaming as long as TS Out Stream loss alarm is active.
- Gbe port - Auto will stop streaming as long as TS Out Stream loss alarm is active.
- ASI port in DTF - Auto will behave similar as On.
- For Transparent Loop Through TSs- Auto will behave similar as On.

eStreamingSetting_Reserved4 Reserved for future use.

eStreamingSetting_Reserved5 Reserved for future use.

eStreamingSetting_Reserved6 Reserved for future use.

eStreamingSetting_Reserved7 Reserved for future use.

eStreamingSetting_Reserved8 Reserved for future use.

eStreamingSetting_Reserved9 Reserved for future use.

eStreamingSetting_Reserved10 Reserved for future use.

Definition at line 2409 of file DCM.idl.

8.8.3.8 enum DCM::DeviceControl::ePID_Type

PID types.

Enumerator:

ePID_TypeEMM

ePID_TypeUnref

ePID_TypeForced

ePID_TypePrivateDataEMMG

Definition at line 2568 of file DCM.idl.

8.8.3.9 enum DCM::DeviceControl::ePIDPassingStatus

Pid passing and blocking statuses.

Enumerator:

ePID_StatusBlockedByUser Blocked through the IPS_PassBlockPids IDL call.

ePID_StatusPassed Passed ES PIDs or Transparent SI PIDs, read/write. Cannot be changed for SI.

ePID_StatusGenerated Only for SI, readonly.

ePID_StatusBlockedBySystem Blocked through inheritance (parent is blocked so block the children).

ePID_StatusNotPassed PID removed from output, cannot be changed for SI (initial value).

ePID_StatusTransparent Only for SI, to be used through the Get/SetSI_Generation call.

ePID_StatusTransparentRegeneration Only for SI, to be used through the Get/SetSI_Generation call.

ePID_StatusStopped Stop playout of an SI Pid.

ePID_StatusBlockedByDPI Blocked by DPI because no valid rule was present in custom mode.

ePID_StatusBlockedByTsRule Blocked by TS rule because [Service_AutoPassRules](#) block new service components.

ePID_StatusBlockedBySvcRule Blocked by Service rule (e.g. blockCAInfo)

Definition at line 2668 of file DCM.idl.

8.8.3.10 enum DCM::DeviceControl::ePIDPassingStatus_V2

Pid passing and blocking statuses.

Enumerator:

ePID_Status_V2_BlockedByUser Blocked through the IPS_PassBlockPids IDL call.

ePID_Status_V2_Passed Passed ES PIDs or Transparent SI PIDs, read/write. Cannot be changed for SI.

ePID_Status_V2_Generated Only for SI, readonly.

ePID_Status_V2_BlockedBySystem Blocked through inheritance (parent is blocked so block the children).

ePID_Status_V2_NotPassed PID removed from output, cannot be changed for SI (initial value).

ePID_Status_V2_Transparent Only for SI, to be used through the Get/SetSI_Generation call.

ePID_Status_V2_TransparentRegeneration Only for SI, to be used through the Get/SetSI_Generation call.

ePID_Status_V2_Stopped Stop playout of an SI Pid.

ePID_Status_V2_BlockedByDPI Blocked by DPI because no valid rule was present in custom mode.

ePID_Status_V2_BlockedByTsRule Blocked by TS rule because [Service_AutoPassRules](#) block new service components.

ePID_Status_V2_BlockedBySvcRule Blocked by Service rule (e.g. blockCAInfo)

ePID_Status_V2_AutoPassed Only for SI, read only, indicates subtable autopassing.

ePID_Status_V2_Reserved12

ePID_Status_V2_Reserved13

ePID_Status_V2_Reserved14

ePID_Status_V2_Reserved15

ePID_Status_V2_Reserved16

ePID_Status_V2_Reserved17

ePID_Status_V2_Reserved18

ePID_Status_V2_Reserved19

ePID_Status_V2_Reserved20

ePID_Status_V2_Reserved21

ePID_Status_V2_Reserved22

ePID_Status_V2_Reserved23

ePID_Status_V2_Reserved24
ePID_Status_V2_Reserved25
ePID_Status_V2_Reserved26
ePID_Status_V2_Reserved27
ePID_Status_V2_Reserved28
ePID_Status_V2_Reserved29
ePID_Status_V2_Reserved30
ePID_Status_V2_Reserved31
ePID_Status_V2_Reserved32
ePID_Status_V2_Reserved33
ePID_Status_V2_Reserved34
ePID_Status_V2_Reserved35
ePID_Status_V2_Reserved36
ePID_Status_V2_Reserved37
ePID_Status_V2_Reserved38
ePID_Status_V2_Reserved39

Definition at line 2684 of file DCM.idl.

8.8.3.11 enum DCM::DeviceControl::ePriorityBitMode

Input Transport stream setting that defines how the priority bit in the MPEG header of the incoming packets should be manipulated.

Enumerator:

eTPB_Transparent Priority bit will be left unchanged as present on the input.
eTPB_ForceToZero Priority bit will be forced to zero;.
eTPB_ForceToOne Priority bit will be forced to one.

Definition at line 4333 of file DCM.idl.

8.8.3.12 enum DCM::DeviceControl::eRoutingStatusResult

Result of routing file upload operation (pre-config - IPS_ProcessRoutingFile)

Enumerator:

eRoutingResultSuccess No warnings or errors.
eRoutingStatusSuccessWithWarnings Warnings occurred.
eRoutingStatusSuccessWithErrors Errors occurred.
eRoutingStatusFatalError File could not be processed.

Definition at line 2782 of file DCM.idl.

8.8.3.13 enum DCM::DeviceControl::eRoutingStatusSeverity

Severity of error that occurred during routing file upload (pre-config - IPS_ProcessRoutingFile)

Enumerator:

eRoutingStatusWarning Warning (could be executed)
eRoutingStatusError Error (line could not be executed)
eRoutingStatusFatal File could not be processed.

Definition at line 2791 of file DCM.idl.

8.8.3.14 enum DCM::DeviceControl::eTimeBaseSelectionMode

Deprecated Use V2 structure instead

Enumerator:

eTBS_Auto VBR mode, Firmware freely chooses a PCR PID and is allowed to switch.
eTBS_AutoReferredPCR VBR mode, Software selects a PMT referenced PCR PID and locks it.
eTBS_ForcedPCR VBR mode User requests to use and lock the PCR PID referenced in the given Service Id.
eTBS_CBR_Auto CBR mode, firmware chooses a PCR PID and is allowed to switch.
eTBS_CBR_AutoReferredPCR CBR mode, Software selects a PMT referenced PCR PID and locks it.
eTBS_CBR_ForcedPCR CBR mode, User requests to use and lock the PCR PID referenced in the given Service Id.

Definition at line 2934 of file DCM.idl.

8.8.3.15 enum DCM::DeviceControl::eTimeBaseSelectionMode_V2

Enumerator:

eTBS_V2_Auto VBR mode, Firmware freely chooses a PCR PID and is allowed to switch.
eTBS_V2_AutoReferredPCR VBR mode, Software selects a PMT referenced PCR PID and locks it.
eTBS_V2_ForcedPCR VBR mode User requests to use and lock the PCR PID referenced in the given Service Id.
eTBS_V2_CBR_Auto CBR mode, firmware chooses a PCR PID and is allowed to switch.
eTBS_V2_CBR_AutoReferredPCR CBR mode, Software selects a PMT referenced PCR PID and locks it.
eTBS_V2_CBR_ForcedPCR CBR mode, User requests to use and lock the PCR PID referenced in the given Service Id.
eTBS_V2_Reserved1
eTBS_V2_Reserved2
eTBS_V2_Reserved3
eTBS_V2_Reserved4
eTBS_V2_Reserved5
eTBS_V2_Reserved6

eTBS_V2_Reserved7

eTBS_V2_Reserved8

eTBS_V2_Reserved9

Definition at line 2966 of file DCM.idl.

8.8.4 Function Documentation

8.8.4.1 void DCM::DeviceControl::BoardDejitterCfgGet (in unsigned short *BoardNumber*, out BoardDejitterCfg_t *CfgOut*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the board default VBR and CBR latency.

Currently the VBR latency will always be 110ms.

Parameters

in	<i>BoardNumber</i>	The BoardNumber of which parameters need to be changed.
in	<i>CfgOut</i>	The new default setting

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OpNotSucceeded</i>	In case of BoardNumber does not identify a Gbe board

Version

Release 6.5

8.8.4.2 void DCM::DeviceControl::BoardDejitterCfgSet (in unsigned short *BoardNumber*, in BoardDejitterCfg_t *CfgIn*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the board default VBR and CBR latency.

Currently the VBR latency should always be 110ms. Changing the board default applies to all existing input TS's.

Parameters

in	<i>BoardNumber</i>	The BoardNumber of which parameters need to be changed.
in	<i>CfgIn</i>	The new default setting

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OpNotSucceeded</i>	In case of - BoardNumber does not identify a Gbe board - The requested latency is out of range.

Version

Release 6.5

8.8.4.3 `Debug_Gbe_InputTS_List_t DCM::DeviceControl::DebugGbeStreamInGetL ( in IPS_Ref_t PhysRef, in Ref_List_t RefList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of Gbe information of incoming transport streams.

Call mainly meant for troubleshooting information. For each input transport stream, the "hardware index" is also returned now.

Parameters

in	<i>PhysRef</i>	The BoardNr and PortNr of which you want the information.
in	<i>RefList</i>	A Ref_List_t, sequence of Ref's (longs) you want info about.

Returns

A sequence of [Debug_Gbe_InputTS_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references(PhysRef, RefList) are used.

Note

- A value of 0xFFFF for port means all ports.
- An empty RefList means all refs.

Version

Release 8.5

8.8.4.4 `Debug_Gbe_OutputTS_List_t DCM::DeviceControl::DebugGbeStreamOutGetL ( in IPS_Ref_t PhysRef, in Ref_List_t RefList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of Gbe information of outgoing transport streams.

Call mainly meant for troubleshooting information. For each input transport stream, the "hardware index" is also returned.

Parameters

in	<i>PhysRef</i>	The BoardNr and PortNr of which you want the information.
in	<i>RefList</i>	A Ref_List_t, sequence of Ref's (longs) you want info about.

Returns

A sequence of `ebug_Gbe_OutputTS_t` entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references(PhysRef, RefList) are used.

Note

- A value of 0xFFFF for port means all ports.
- An empty RefList means all refs.

Version

Release 8.5

8.8.4.5 void DCM::DeviceControl::GbeIO_OutStreamIP_ChangeL (in IPS_Ref_t *RefPhys*, in GbeIO_IP_Settings_List_t *OutputGbeIO_StreamList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Change the IPv4 or IPv6 header parameters of one or more existing outgoing Gbe IO streams.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr of which parameters need to be changed.
in	<i>OutputGbeIO_StreamList</i>	List of GbeIO_IP_Header_t entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid references (RefPhys). • Inconsistency between RefPhys.BoardNr & OutputTSList[x].Ref.BoardNr. • Inconsistency between RefPhys.PortNr & OutputTSList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF. • Out of range values (UDPPort).

Version

Release 8.2

8.8.4.6 GbeIO_IP_Settings_List_t DCM::DeviceControl::GbeIO_OutStreamIP_GetL (in IPS_Ref_t *RefPhys*, in Ref_List_t *RefList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the IPv4 or IPv6 parameters for a list of outgoing transport streams.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr you want information about.
in	<i>RefList</i>	A sequence of Ref's you want info about.

Returns

OutputGbeIO_StreamList List of GbeIO_IP_Header_t entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references (RefPhys, RefList) are used.

Note

- A value of 0xFFFF for port means all ports.
- An empty list means all refs.

Version

Release 8.2

8.8.4.7 void DCM::DeviceControl::GetDefault_InsertCATDescriptors (in unsigned short *BoardNumber*, out eInsertCATDescriptors *InsertCATDescriptors*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get default Insert CAT Descriptors mode setting Defaults are attached to a board.

Parameters

in	<i>BoardNumber</i>	The BoardNumber you want information about.
out	<i>InsertCAT-Descriptors</i>	The current default.

Exceptions

<i>OpNotSupported</i>	in case • BoardNr = 0 = Main board • DCM version < 9.10 • called for board which doesn't have physical output (e.g. transcoder board)
<i>OperationFailed</i>	In case • BoardNumber does not exist
<i>OpNotSucceeded</i>	Unspecified error

Version

Release 9.10

8.8.4.8 void DCM::DeviceControl::GetDefault_NitInPat (in unsigned short *BoardNumber*, out eNitInPat *NitInPat*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default Nit in Pat mode setting Defaults are attached to a board.

Parameters

in	<i>BoardNumber</i>	The BoardNumber you want information about.
out	<i>NitInPat</i>	The current default.

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OpNotSucceeded</i>	In case of BoardNumber does not exist

8.8.4.9 void DCM::DeviceControl::GetDefault_SourceUdp (in unsigned short *Board*, out unsigned short *SourceUdp*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current default source UDP port number for a new TS.

Parameters

in	<i>Board</i>	An unsigned short to indicate the slot.
out	<i>SourceUdp</i>	The default source UDP port number.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, asi, ..).
<i>OpNotSucceeded</i>	in case of Invalid reference Board

8.8.4.10 void DCM::DeviceControl::GetDefaultAutoPassRules (in unsigned short *BoardNr*, out DefaultAutoPassRules *rules*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the board default auto pass rules for service component passing.

These are the current settings.

Parameters

in	<i>BoardNr</i>	The slot the settings refer to.
in	<i>rules</i>	The current DefaultAutoPassRules .

8.8.4.11 void DCM::DeviceControl::GetDefaultForbiddenPidRanges (in unsigned short *SlotNumber*, out ForbiddenPidRange_List_t *RangeList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the default forbidden pid ranges.

Parameters

in	<i>SlotNumber</i>	Slot number
out	<i>RangeList</i>	The list of forbidden pid ranges

Exceptions

<i>OpNotSupported</i>	When SlotNumber = 0 = Main board.
<i>OpNotSucceeded</i>	In case of

Version

Release 8.0

8.8.4.12 void DCM::DeviceControl::GetDefaultPriorityBit (in unsigned short *SlotNbr*, out ePriorityBitMode *PriorityBitSetting*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current default PrioBitSetting.

Parameters

in	<i>SlotNbr</i>	BoardNr of which we want the information.
out	<i>PriorityBit-Setting</i>	the default Priority Bit Setting.

Exceptions

<i>OpNotSupported</i>	When called for other than IO boards (Main).
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Version

Release 7.5

8.8.4.13 void DCM::DeviceControl::GetDefaultTBSSMode_V2 (in unsigned short *BoardNumber*, out eTimeBaseSelectionMode_V2 *TBS_Mode*, out boolean *FastLock*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default [Time](#) Base Selection Mode that is used for newly created input TSs.

Parameters

in	<i>BoardNumber</i>	The BoardNumber of which parameters need to be queried.
out	<i>TBS_Mode</i>	The current default.
out	<i>FastLock</i>	Indicates board wide fast lock option, will always be false for the moment.

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OperationFailed</i>	in case BoardNumber does not identify a Gbe board
<i>OpNotSucceeded</i>	: Unspecified error

Version

Supported since release 10.30

8.8.4.14 void DCM::DeviceControl::GetDefaultTimeBaseSelectionMode (in unsigned short *BoardNumber*, out eTimeBaseSelectionMode *TBS_Mode*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default **Time** Base Selection Mode that is used for newly created input TSs.

Parameters

in	<i>BoardNumber</i>	The BoardNumber of which parameters need to be queried.
out	<i>TBS_Mode</i>	The current default.

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OpNotSucceeded</i>	In case of BoardNumber does not identify a Gbe board

Deprecated Since version 10.30, use GetDefaultTBSMode_V2 instead

8.8.4.15 void DCM::DeviceControl::GetForbiddenPidRanges (in IPS_RefTS_t *RefTS*, out ForbiddenPidRange_List_t *RangeList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the forbidden pid ranges for a specific output transport stream.

Parameters

in	<i>RefTS</i>	The referenceto the output transport stream
out	<i>RangeList</i>	The list of forbidden pid ranges

Exceptions

<i>OpNotSupported</i>	When SlotNumber = 0 = Main board.
<i>OpNotSucceeded</i>	In case of output TS cannot be found

Version

Release 8.0

8.8.4.16 void DCM::DeviceControl::GetPassMotorolaTables (in unsigned short *BoardNumber*, out boolean *Pass*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current Pass Motorola C0/C1 table setting.

Parameters

in	<i>BoardNumber</i>	The board number of which we want the information.
out	<i>Pass</i>	The current setting.

Exceptions

<i>OpNotSupported</i>	When called for other than IO boards (Main).
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Version

Release 7.5

8.8.4.17 void DCM::DeviceControl::GetSI_DefaultGenerationModes (in IPS_Ref_t *RefPhys*, out SI_Table_GenerationMode_List_t *Modes*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

This gets the default generation mode of all supported SI tables for one or more TS.

Parameters

in	<i>RefPhys</i>	The slot (board) and port to apply the call on. (Port mux be 0xFFFF, because boardsetting)
out	<i>Modes</i>	list with generation modes for tables (only supported for TDT and TOT)

Exceptions

<i>OpNotSupported</i>	RefPhys invalid
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8.8.4.18 void DCM::DeviceControl::GetSI_DefaultPayoutPeriods (in IPS_Ref_t *RefPhys*, out SI_Table_Period_List_t *Periods*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

this gets the current defaults for all supported SI tables

Parameters

in	<i>RefPhys</i>	The slot(board) and port to apply the call on. Port must be 0xFFFF (boardsetting)
out	<i>Periods</i>	

Returns

Periods List of all SI tables for all standards + periods

Exceptions

<i>OpNotSupported</i>	When called for other than IO boards (Main).
<i>OpNotSucceeded</i>	when RefPhys is invalid

8.8.4.19 void DCM::DeviceControl::GetTOT_Timezones (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *TS_List*, out TS_TOT_Timezone_List_t *Timezones*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

This gets the TOT descriptor timezones for one or more TS's.

Parameters

in	<i>RefPhys</i>	reference to board, port
in	<i>TS_List</i>	list of TS's
out	<i>Timezones</i>	A TS_TOT_Timezone_List_t list of TS's with corresponding timezones.

Returns

Timezones list of TS's with corresponding timezones

Exceptions

<i>OpNotSucceeded</i>	in case of invalid references (RefTS)
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8.8.4.20 void DCM::DeviceControl::InEMM_GetL (in InEMM_RefList_t *EMM_RefList*, out EMM_DataList_t *EMM_DataList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the list of additional information of all EMM's/PD's at the output.

Call only meant for the main board.

Parameters

in	<i>EMM_RefList</i>	A sequence of InEMM_Data_t entries.
out	<i>EMM_DataList</i>	

Returns

EMM_DataList A sequence of [EMM_Data_t](#) entries.

8.8.4.21 void DCM::DeviceControl::InputTsExistenceGetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, out InTsExistenceReasonsList_t *lst*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get reason of existence for some input TS.

Parameters

in	<i>RefPhys</i>	The port the Input TS are attached to.
in	<i>RefTsList</i>	List of References of InputTs for which to return the existence reason. Empty list equals all InputTs attached to RefPhys.
out	<i>lst</i>	List of RefTs/ExistenceBitmap pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist. • RefTs does not match RefPhys

Version

Release 6.5

8.8.4.22 void DCM::DeviceControl::InTS_PriorityBits_DeLL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Revert the Priority Bit setting to default for a list of input TSs.

Parameters

in	<i>RefPhys</i>	The port for which to change to settings
in	<i>RefTsList</i>	List of TSs for which to delete the settings

Exceptions

<i>OpNotSupported</i>	When called for other than IO boards (Main).
<i>OpNotSucceeded</i>	in case • Invalid input references are used • TS does not exist or is not for input
<i>LicenseError</i>	In case PRIORITY_BIT_ADAPTATION license is missing.

8.8.4.23 InTS_PriorityBit_List_t DCM::DeviceControl::InTS_PriorityBits_GetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of transport priority bit settings for a number of incoming transport streams.

Parameters

in	<i>RefPhys</i>	The port of which you want the information.
in	<i>RefTsList</i>	A Ref_List_t, sequence of TS Ref's you want info about.

Returns

InTS_PriorityBit_List_t A sequence of ChangePrioBitInputTS_t entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references(RefList) are used.

- An empty ReTsfList means all TS refs.

Version

Release 7.5

8.8.4.24 void DCM::DeviceControl::InTS_PriorityBits_SetL (in IPS_Ref_t *RefPhys*, in InTS_PriorityBit_List_t *InTS_PriorityBit_List*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Change the transport priority bit behavior for one or more existing incoming TS.

Parameters

in	<i>RefPhys</i>	The port for which parameters need to be changed.
in	<i>InTS_PriorityBit_List</i>	List of ChangePrioBitInputTS_t entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Inconsistency between RefPhys & InputTSList[x].Ref.BoardNr. • Inconsistency between PortNr & InputTSList[x].Ref.PortNr in case RefPhys.-PortNr != 0xFFFF. • Invalid enum value (ePrioBitSetting_t).
<i>LicenseError</i>	In case PRIORITY_BIT_ADAPTATION license is missing.

Version

Release 7.5

8.8.4.25 IPS_ReferenceTS_List_t DCM::DeviceControl::IPS_FindTSs (in unsigned short *BoardNumber*, in IPS_LookupTS_List_t *LookUpTS_List*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the TS indexes for a number of transport streams.

NO automatic creation will be done in any case. This function can also be used for IP Video gateway and IP Audio Gateway boards.

Parameters

in	<i>BoardNumber</i>	An unsigned short to indicate the slot.
in	<i>LookUpTS_List</i>	A sequence of board/port/UDP port, ... for which TS Index is to be returned.

Returns

A IPS_ReferenceTS_List_t, a sequence of [IPS_ReferenceTS_t](#) entries with corresponding TSindex.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	when BoardNumber or Ref is invalid.

8.8.4.26 `IPS_Gbe_InputTS_List_t DCM::DeviceControl::IPS_Gbe_InTS_GetL ( in IPS_Ref_t PhysRef, in Ref_List_t RefList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of Gbe information of incoming transport streams.

Parameters

in	<i>PhysRef</i>	The BoardNr and PortNr of which you want the information.
in	<i>RefList</i>	A Ref_List_t, sequence of Ref's (longs) you want info about.

Returns

IPS_Gbe_InputTS_List_t A sequence of [IPS_Gbe_InputTS_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references(<i>PhysRef</i> , <i>RefList</i>) are used.

Note

- A value of 0xFFFF for port means all ports.
- An empty RefList means all refs.

8.8.4.27 `void DCM::DeviceControl::IPS_GetDefaultStandard ( in IPS_Ref_t RefPhys, out eEsTypeStandard eIn, out eEsTypeStandard eOut )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current default eEsTypeStandard for input and output.

Parameters

in	<i>RefPhys</i>	BoardNr & PortNr of which we want the information.
out	<i>eIn</i>	eEsTypeStandard value for input.
out	<i>eOut</i>	eEsTypeStandard value for output.

Note

Defaults are stored per board: the PortNumber in RefPhys is ignored.

Exceptions

<i>OpNotSupported</i>	When called for other than IO boards (Main).
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8.8.4.28 void DCM::DeviceControl::IPS_InPID_GetL (in IPS_RefTS_t *RefTS*, in ePID_Type *PID_Type*, out IPS_In_PID_List_t *PID_DataList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the list of PID's on a InputTS.

Parameters

in	<i>RefTS</i>	BoardNr & PortNr for which to get the PIDs. - If RefTS.Ref==0xFFFFFFFF (i.e. wildcard), then all output TS's on the specified port are processed. - If Ref.PortNr == INVALID_PORT (i.e. wildcard) all ports are processed.
in	<i>PID_Type</i>	An ePID_Type to specify the type of the PID to get.
out	<i>PID_DataList</i>	

Returns

PID_DataList A sequence of [IPS_InPID_Data_t](#) entries.

Exceptions

<i>OpNotSucceeded</i>	In case of Invalid references are used (RefTS which cannot be found)
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8.8.4.29 void DCM::DeviceControl::IPS_InPID_GetL_V2 (in IPS_RefTS_t *RefTS*, in ePID_Type *PID_Type*, out IPS_In_PID_List_V2_t *PID_DataList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the list of PID's on a InputTS (including property bits).

Parameters

in	<i>RefTS</i>	BoardNr & PortNr for which to get the PIDs. - If RefTS.Ref==0xFFFFFFFF (i.e. wildcard), then all output TS's on the specified port are processed. - If Ref.PortNr == INVALID_PORT (i.e. wildcard) all ports are processed.
in	<i>PID_Type</i>	An ePID_Type to specify the type of the PID to get.
out	<i>PID_DataList</i>	List of PIDs with property bits.

Returns

PID_DataList A sequence of [IPS_InPID_Data_V2_t](#) entries.

Exceptions

<i>OpNotSucceeded</i>	In case of Invalid references are used (RefTS which cannot be found)
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Version

Release 7.5

8.8.4.30 void DCM::DeviceControl::IPS_InTS_ChangeL (in IPS_Ref_t *RefPhys*, in IPS_ChangeInputTS_List_t *InputTSList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Change the parameters of one or more existing incoming TS.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr of which parameters need to be changed.
in	<i>InputTSList</i>	List of IPS_ChangeInputTS_List_t entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of - Invalid references (RefPhys). - Inconsistency between RefPhys.BoardNr & InputTSList[x].Ref.BoardNr. - Inconsistency between RefPhys.PortNr & InputTSList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF. - Invalid enum value (eEsTypeStandard).

8.8.4.31 IPS_InputTS_List_t DCM::DeviceControl::IPS_InTS_GetL (in IPS_Ref_t *PhysRef*, in Ref_List_t *RefList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of incoming transport streams.

Parameters

in	<i>PhysRef</i>	The BoardNr and PortNr of which you want the information.
in	<i>RefList</i>	A Ref_List_t, sequence of Ref's (longs) you want info about.

Returns

IPS_InputTS_List_t A sequence of [IPS_InputTS_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references(PhysRef, RefList) are used.

Note

- A value of 0xFFFF for port means all ports.
- An empty RefList means all refs.

8.8.4.32 `IPS_ReferenceTS_List_t DCM::DeviceControl::IPS_Lookup_TSs ( in unsigned short BoardNumber, in IPS_LookupTS_List_t LookUpTS_List )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed, OutOfRange)

Gets the TS indexes for a number of transport streams.

If an input TS is looked up, this one will automatically be created when not found. This function can also be used for IP Video gateway and IP Audio Gateway boards.

Parameters

in	<i>BoardNumber</i>	An unsigned short to indicate the slot.
in	<i>LookUpTS_List</i>	A sequence of board/port/UDP port, ... for which TS Index is to be returned.

Returns

A `IPS_ReferenceTS_List_t`, a sequence of [IPS_ReferenceTS_t](#) entries with corresponding TSindex.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	when BoardNumber or Ref is invalid. • When looking up an INPUT GBE TS only a multicast ip address or else 0.0.-0.0 should be used • When a unicast IP address other than 0.0.0.0 is given to lookup an input TS, this is internally converted to 0.0.0.0 • 0.0.0.0 is used to identify the current unicast address of the GBE port

8.8.4.33 `void DCM::DeviceControl::IPS_OutDefaultsGet ( in IPS_Ref_t RefPhys, out IPS_UDP_Socket_t Socket, out long IBitrate, out eIPS_IncrScheme Incr )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current set of defaults for a new TS.

Parameters

in	<i>RefPhys</i>	BoardNr & PortNr of which we want the information.
out	<i>Socket</i>	Default ip address & UDP port.
out	<i>IBitrate</i>	Default bitrate value.
out	<i>Incr</i>	Default incremental scheme.

Note

Output defaults are stored per board: the PortNumber in RefPhys is ignored.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, ASI,...).
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8.8.4.34 void DCM::DeviceControl::IPS_OutDefaultsSet (in IPS_Ref_t *RefPhys*, in IPS_UDP_Socket_t *Socket*, in long *IBitrate*, in eIPS_IncrScheme *Incr*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set defaults for new TS created with [IPS_OutTS_AddL\(\)](#).

Parameters

in	<i>RefPhys</i>	Specifies the BoardNr & PortNr on which to apply these defaults.
in	<i>Socket</i>	Default ip address & UDP port.
in	<i>IBitrate</i>	Default bitrate values: range 0.1 Mbps..200Mbps
in	<i>Incr</i>	Default incremental scheme.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, ASI,...).
<i>OpNotSucceeded</i>	In case of • Out of range values (Ip address, UDP port, Bitrate). • Invalid enum values.

Note

If a new TS is created, the software will check if the default (IP address, UDP port) already exist. If not, a new TS is created with default IP address and UDP port. If the IP address, UDP port already exist, the incremental scheme is used to find an IP address, UDP port combination that is free. Output defaults are stored per board: PortNumber in RefPhys is ignored. IP address and UDP port combination is not unique over different I/O boards.

8.8.4.35 void DCM::DeviceControl::IPS_OutEMM_AddL (in IPS_RefTS_t *RefTS_Out*, in InEMM_RefList_t *PID_DataList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Routes a number of EMM pids to an output TS.

Parameters

in	<i>RefTS_Out</i>	BoardNr & PortNr & TSRef to which EMMs should be routed.
in	<i>PID_DataList</i>	A sequence of InEMM_Data_t entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid reference is used (RefTS_Out)

8.8.4.36 void DCM::DeviceControl::IPS_OutEMM_DelL (in IPS_RefTS_t *RefTS_Out*, in InEMM_RefList_t *PID_DataList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Removes the routing for a number of EMM pids to an output TS.

Parameters

in	<i>RefTS_Out</i>	BoardNr & PortNr & TSRef for which EMMs should no longer be routed.
in	<i>PID_DataList</i>	A sequence of InEMM_Data_t entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of Invalid reference is used (RefTS_Out)

8.8.4.37 void DCM::DeviceControl::IPS_OutPID_AddL (in IPS_Ref_t *RefPhys*, in IPS_OutPID_DataList_t *PID_DataList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Passes a list of (unreferenced) PID's to an OutputTS.

Parameters

in	<i>RefPhys</i>	BoardNr & PortNr on which to apply these PIDs.
in	<i>PID_DataList</i>	A sequence of IPS_OutPID_Data_t entries with the PIDs to add.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of - Invalid references (RefPhys, PID_DataList). - Inconsistency between RefPhys.BoardNr & PID_DataList[x].Ref.BoardNr. - Inconsistency between RefPhys.PortNr & PID_DataList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF.

8.8.4.38 void DCM::DeviceControl::IPS_OutPID_DeleteL (in IPS_Ref_t *RefPhys*, in IPS_OutPID_DataList_t *PID_DataList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Deletes the list of PID's on a OutputTS.

Parameters

in	<i>RefPhys</i>	BoardNr & PortNr on which to delete these PIDs.
in	<i>PID_DataList</i>	A sequence of IPS_OutPID_Data_t entries with the PIDs to delete.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of - Invalid references (RefPhys, PID_DataList). - Inconsistency between RefPhys.BoardNr & PID_DataList[x].Ref.BoardNr. - Inconsistency between RefPhys.PortNr & PID_DataList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF.

8.8.4.39 void DCM::DeviceControl::IPS_OutPID_GetL (in IPS_RefTS_t *RefTS*, in ePID_Type *PID_Type*, out IPS_OutPID_Data2List_t *PID_DataList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the list of PID's on a OutputTS.

Parameters

in	<i>RefTS</i>	BoardNr & PortNr for which to get the PIDs. If RefTS.Ref==0xFFFFFFF, then all output TS's are processed.
in	<i>PID_Type</i>	An ePID_Type to specify the type of the PID to get.
out	<i>PID_DataList</i>	

Returns

PID_DataList A sequence of [IPS_OutPID_Data2_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of Invalid references are used (RefTS)

8.8.4.40 void DCM::DeviceControl::IPS_OutTS_AddL (in IPS_Ref_t *RefPhys*, in unsigned long *NbrOutTS*, out IPS_OutputTS_List_t *OutputTSList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Create a number of TS on given Slot and Port based on the defined defaults ([IPS_OutDefaultsSet\(\)](#), [IPS_OutDefaultsGet\(\)](#)).

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr on which TSs need to be added.
in	<i>NbrOutTS</i>	The number of TS's to create.
out	<i>OutputTSList</i>	Parameters of the new TS's.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, asi, ..).
<i>OpNotSucceeded</i>	In case of • Invalid references (RefPhys). • Maximum number of supported TSs/board is reached. • Maximum number of supported TSs/GBE port is reached.

8.8.4.41 void DCM::DeviceControl::IPS_OutTS_AddL_V2 (in IPS_Ref_t *RefPhys*, in unsigned long *NbrOutTS*, out IPS_OutputTS_List_V2_t *OutputTSList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Create a number of TS on given Slot and Port based on the defined defaults ([IPS_OutDefaultsSet\(\)](#), [IPS_OutDefaultsGet\(\)](#)).

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr on which TSs need to be added.
in	<i>NbrOutTS</i>	The number of TS's to create.
out	<i>OutputTSList</i>	Parameters of the new TS's.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, asi, ..).
<i>OpNotSucceeded</i>	In case of • Invalid references (RefPhys). • Maximum number of supported TSs/board is reached. • Maximum number of supported TSs/GBE port is reached.

Version

Release 8.5

8.8.4.42 void DCM::DeviceControl::IPS_OutTS_ChangeL (in IPS_Ref_t *RefPhys*, in IPS_OutputTS_List_t *OutputTSList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Change the parameters of one or more existing outgoing TS.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr of which parameters need to be changed.
in	<i>OutputTSList</i>	List of IPS_OutputTS_t entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid references (RefPhys). • Inconsistency between RefPhys.BoardNr & OutputTSList[x].Ref.BoardNr. • Inconsistency between RefPhys.PortNr & OutputTSList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF. • Out of range values (Bitrate, UDPPort, TSID, ONID). • Invalid enum value (State, eEsTypeStandard).

Note

The maximum bitrate allowed on an ASI I/O board depends on the output mode of the ASI port.

8.8.4.43 void DCM::DeviceControl::IPS_OutTS_ChangeL_V2 (in IPS_Ref_t *RefPhys*, in IPS_OutputTS_List_V2_t *OutputTSList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Change the parameters of one or more existing outgoing TS.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr of which parameters need to be changed.
in	<i>OutputTSList</i>	List of IPS_OutputTS_V2_t entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid references (RefPhys). • Inconsistency between RefPhys.BoardNr & OutputTSList[x].Ref.BoardNr. • Inconsistency between RefPhys.PortNr & OutputTSList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF. • Out of range values (Bitrate, UDPPort, TSID, ONID). • Invalid enum value (State, eEsTypeStandard).

Note

The maximum bitrate allowed on an ASI I/O board depends on the output mode of the ASI port.

Version

Release 8.5

8.8.4.44 void DCM::DeviceControl::IPS_OutTS_DeleteL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a list of TSs.

Parameters

in	<i>RefPhys</i>	BoardNr & PortNr where TSs need to be deleted.
in	<i>RefList</i>	list of IPS_RefTS_t , references to the TSs that need to be deleted.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case - Invalid references are used (RefPhys, RefList). - Inconsistency between RefPhys.BoardNr & RefList[x].BoardNr. - Inconsistency between RefPhys.PortNr & RefList[x].PortNr in case RefPhys.PortNr != 0xFFFF.

Note

- Services are also deleted when output TS gets deleted.
- The IPS_OutTS_Delete version of this method is no longer supported.
- When called on an ASI board, a new TS is created for the ports where the TS is deleted

8.8.4.45 [IPS_OutputTS_List_t](#) DCM::DeviceControl::IPS_OutTS_GetFilteredL (in [IPS_Ref_t](#) *RefPhys*, in [Ref_List_t](#) *RefList*, in boolean *ScrambledOnly*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a filtered list of outgoing transport streams and their parameters.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr you want information about.
in	<i>RefList</i>	A sequence of Ref's you want info about.
in	<i>ScrambledOnly</i>	Return only TS's where scrambling of services can be done

Returns

An [IPS_OutputTS_List_t](#) list, a sequence of [IPS_OutputTS_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references (RefPhys, RefList) are used.

Note

- A value of 0xFFFF for port means all ports.
- An empty list means all refs.

8.8.4.46 `IPS_OutputTS_List_V2_t DCM::DeviceControl::IPS_OutTS_GetFilteredL_V2 ( in IPS_Ref_t RefPhys, in Ref_List_t RefList, in boolean ScrambledOnly )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a filtered list of outgoing transport streams and their parameters.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr you want information about.
in	<i>RefList</i>	A sequence of Ref's you want info about.
in	<i>ScrambledOnly</i>	Return only TS's where scrambling of services can be done

Returns

An `IPS_OutputTS_List_V2_t` list, a sequence of [IPS_OutputTS_V2_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references (RefPhys, RefList) are used.

Note

- A value of 0xFFFF for port means all ports.
- An empty list means all refs.

Version

Release 8.5

8.8.4.47 `IPS_OutputTS_List_V2_t DCM::DeviceControl::IPS_OutTS_GetFilteredL_V3 ( in IPS_Ref_t RefPhys, in Ref_List_t RefList, in boolean ScrambledOnly, in OperatingMode_List_t OperatingModes )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a filtered list of outgoing transport streams and their parameters.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr you want information about.
in	<i>RefList</i>	A sequence of Ref's you want info about.
in	<i>ScrambledOnly</i>	Return only TS's where scrambling of services can be done
in	<i>Operating-Modes</i>	Return only TS's with provided operating mode

Returns

An `IPS_OutputTS_List_V2_t` list, a sequence of `IPS_OutputTS_V2_t` entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references (RefPhys, RefList) are used.
<i>OpNotSupported</i>	In case invalid enumeration value is used

Note

- A value of 0xFFFF for port means all ports.
- An empty list means all refs.
- An empty OperatingModes list means all operating modes

Version

Release 8.9

8.8.4.48 `IPS_OutputTS_List_t DCM::DeviceControl::IPS_OutTS_GetL ( in IPS_Ref_t RefPhys, in Ref_List_t RefList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of outgoing transport streams and their parameters.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr you want information about.
in	<i>RefList</i>	A sequence of Ref's you want info about.

Returns

`IPS_OutputTS_List_t`, a sequence of `IPS_OutputTS_t` entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references (RefPhys, RefList) are used.

Note

- A value of 0xFFFF for port means all ports.
- An empty list means all refs.
- The `IPS_OutTS_Get` version of this method is no longer supported.

8.8.4.49 `IPS_OutputTS_List_V2_t DCM::DeviceControl::IPS_OutTS_GetL_V2 ( in IPS_Ref_t RefPhys, in Ref_List_t RefList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of outgoing transport streams and their parameters.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr you want information about.
in	<i>RefList</i>	A sequence of Ref's you want info about.

Returns

IPS_OutputTS_List_V2_t, a sequence of [IPS_OutputTS_V2_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references (RefPhys, RefList) are used.

Note

- A value of 0xFFFF for port means all ports.
- An empty list means all refs.
- The IPS_OutTS_Get version of this method is no longer supported.

Version

Release 8.5

8.8.4.50 void DCM::DeviceControl::IPS_OutTS_LT_AddL (in IPS_Ref_t *RefPhys*, in IPS_OutputTS_LT_List_t *OutputTSList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Create a number of Transparent Loop Through TSs on given Slot and Port.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr on which TSs need to be added.
in	<i>OutputTSList</i>	Parameters of the new TS's. if IP and UDP is Invalid, boarddefault will be used.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE or ASI ones (Main, Transcoder, ..).
<i>OpNotSucceeded</i>	In case of • Invalid references (RefPhys). • Maximum number of supported TSs/board is reached. • Maximum number of supported TSs/port is reached. • ASI SFN MKII board which is in Deterministic Remux mode

Note

On a loop through output TS only limited settings are possible: It is possible to change IP related settings on a GbE TS (Ip address, UDP port, TOS, TTL, VLAN and FEC). Other TS settings are not supported by a loop through TS and these IDL calls will then return an OpNotSucceeded exception

Version

Release 5.1

Note

From release 8.2 more strict checking is done : trying to create a second loop through on an ASI output port will now return an OpNotSucceeded instead of overwriting any older loop through transport stream.

8.8.4.51 void DCM::DeviceControl::IPS_OutTS_LT_AddL_V2 (in IPS_Ref_t *RefPhys*, in IPS_OutputTS_LT_List_V2_t *OutputTSList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Create a number of Transparent Loop Through TSs on given Slot and Port.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr on which TSs need to be added.
in	<i>OutputTSList</i>	Parameters of the new TS's. if IP and UDP is Invalid, boarddefault will be used.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE or ASI ones (Main, Transcoder, ..).
<i>OpNotSucceeded</i>	In case of • Invalid references (RefPhys). • Maximum number of supported TSs/board is reached. • Maximum number of supported TSs/port is reached. • ASI SFN MKII board which is in Deterministic Remux mode

Note

On a loop through output TS only limited settings are possible: It is possible to change IP related settings on a GbE TS (Ip address, UDP port, TOS, TTL, VLAN and FEC). Other TS settings are not supported by a loop through TS and these IDL calls will then return an OpNotSucceeded exception

Version

Release 8.5

8.8.4.52 void DCM::DeviceControl::IPS_OutTS_LT_ChangeL (in unsigned short *BoardNumber*, in IPS_OutputTS_LT_List_t *OutputTSList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Change the parameters of one or more existing outgoing TS.

Parameters

in	<i>BoardNumber</i>	The BoardNr which parameters need to be changed.
in	<i>OutputTSList</i>	List of IPS_OutputTS_LT_t entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid references (RefPhys). • Inconsistency between RefPhys.BoardNr & OutputTSList[x].Ref.BoardNr. • Inconsistency between RefPhys.PortNr & OutputTSList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF. • Out of range values (UDPPort). • Invalid enum value (State).

8.8.4.53 void DCM::DeviceControl::IPS_OutTS_LT_ChangeL_V2 (in unsigned short *BoardNumber*, in IPS_OutputTS_LT_List_V2_t *OutputTSList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Change the parameters of one or more existing outgoing TS.

Parameters

in	<i>BoardNumber</i>	The BoardNr which parameters need to be changed.
in	<i>OutputTSList</i>	List of IPS_OutputTS_LT_V2_t entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid references (RefPhys). • Inconsistency between RefPhys.BoardNr & OutputTSList[x].Ref.BoardNr. • Inconsistency between RefPhys.PortNr & OutputTSList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF. • Out of range values (UDPPort). • Invalid enum value (State).

Version

Release 8.5

8.8.4.54 IPS_OutputTS_LT_List_t DCM::DeviceControl::IPS_OutTS_LT_GetL (in IPS_Ref_t *RefPhys*, in Ref_List_t *RefList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of outgoing Transparent Loop Through TSs and their parameters.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr you want information about.
in	<i>RefList</i>	A sequence of Ref's you want info about.

Returns

IPS_OutputTS_LT_List_t, a sequence of [IPS_OutputTS_LT_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references (RefPhys, RefList) are used.

Note

- A value of 0xFFFF for port means all ports.
- An empty list means all refs.

8.8.4.55 `IPS_OutputTS_LT_List_V2_t DCM::DeviceControl::IPS_OutTS_LT_GetL_V2 ( in IPS_Ref_t RefPhys, in Ref_List_t RefList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of outgoing Transparent Loop Through TSs and their parameters.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr you want information about.
in	<i>RefList</i>	A sequence of Ref's you want info about.

Returns

IPS_OutputTS_LT_List_V2_t, a sequence of [IPS_OutputTS_LT_V2_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references (RefPhys, RefList) are used.

Note

- A value of 0xFFFF for port means all ports.
- An empty list means all refs.

Version

Release 8.5

8.8.4.56 `void DCM::DeviceControl::IPS_ProcessRoutingFile ( in RoutingFileData_t FileData )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Process the upload of a routing file.

This function is used for pre-configuration of the DCM. The data that is being sent is a CSV file. An example of such a file can be retrieved from the DCM. The current configuration can also be retrieved from the DCM using the function [IPS_RetrieveRoutingFile](#). Refer to these files for the format of the CSV file.

This function will parse the configuration file and then return. The new routings will be applied after this function has already returned. Applying the setting can take a long time (up to 30 min for large files). While the settings are being applied, new calls to [IPS_ProcessRoutingFile](#) will return with an exception code `OpNotSucceeded`. To determine the progress of applying the routings, the function [IPS_RoutingFileProgress](#) can be used. Once the function [IPS_RoutingFileProgress](#) returns with `Finished` set to true, the function [IPS_RoutingFileStatus](#) can be used to obtain the result of the operation. If the uploaded file is invalid (a fatal error occurs during parsing), the function [IPS_RoutingFileProgress](#) will immediately return with `Finished` set to true.

Parameters

in	<i>FileData</i>	RoutingFileData A sequence of char corresponding to the data in the routing file.
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Exceptions

<i>OpNotSucceeded</i>	Processing of a previous IPS_ProcessRoutingFile call has not finished yet.
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See also

[IPS_RoutingFileProgress](#)
[IPS_RoutingFileStatus](#)
[IPS_RetrieveRoutingFile](#)

8.8.4.57 void DCM::DeviceControl::IPS_RetrieveRoutingFile (in char *Separator*, in char *DecimalPoint*, in charSequence *EOLMarker*, out RoutingFileData_t *FileData*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieve the current routing in CSV format.

The file retrieved is in the same format as is to be used for the call [IPS_ProcessRoutingFile](#).

Parameters

in	<i>Separator</i>	The character used to separate fields (usually , or ;).
in	<i>DecimalPoint</i>	The character used to represent a decimal point (usually . or ,).
in	<i>EOLMarker</i>	The character sequence used to separate lines, usually CR, LF or CR+LF.
out	<i>FileData</i>	The data in CSV format.

Exceptions

<i>OpNotSucceeded</i>	An IIOP call to an I/O board has failed.
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See also

[IPS_ProcessRoutingFile](#)

8.8.4.58 void DCM::DeviceControl::IPS_RoutingFileProgress (out boolean *Finished*, out long *CurrentValue*, out long *TotalValue*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Indicates the progress of the upload of a routing file.

Call this function repeatedly after calling [IPS_ProcessRoutingFile](#) until *Finished* is set to true. The parameter *CurrentValue* allows to display progress information in a user interface, and will increase from 0 up to *TotalValue*. The parameter *TotalValue* currently contains the number of routings to be processed, but this behavior should not be relied on.

Parameters

out	<i>Finished</i>	Has processing finished yet?
out	<i>CurrentValue</i>	Value that goes up from 0 to <i>TotalValue</i>
out	<i>TotalValue</i>	Scaling factor for the progress information

See also

[IPS_ProcessRoutingFile](#)

8.8.4.59 void DCM::DeviceControl::IPS_RoutingFileStatus (out eRoutingStatusResult *Result*, out RoutingStatusRecord_List_t *StatusRecords*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Indicates the status of the upload of a routing file.

This function will always return the information about the last call to [IPS_ProcessRoutingFile](#) that was made (or success and empty list of no such call was made). When calling this function before [IPS_RoutingFileProgress](#) returns with *Finished* set to true, a partial list of errors will be returned (all errors which have been encountered so far).

Parameters

out	<i>Result</i>	An enumeration indicating if the upload was succesful or not.
out	<i>StatusRecords</i>	A sequence of RoutingStatusRecords indicating the line number of the error, severity and a message indicating the reason of the failure.

See also

[IPS_RoutingFileProgress](#)

[IPS_ProcessRoutingFile](#)

8.8.4.60 void DCM::DeviceControl::IPS_SetDefaultStandard (in IPS_Ref_t *RefPhys*, in eEsTypeStandard *eIn*, in eEsTypeStandard *eOut*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set defaults eEsTypeStandard for input and output for new TS.

Parameters

in	<i>RefPhys</i>	Specifies the BoardNr & PortNr on which to apply these defaults.
in	<i>eIn,eOut</i>	eEsTypeStandard values for input and output.

Exceptions

<i>OpNotSupported</i>	When called for other than IO boards (Main).
<i>OpNotSucceeded</i>	In case of - Invalid enum values. - For input the new value must be one of eDVB, eATSC, eMOTOROLA. - For output the new value must be one of eTransparent, eForceUplink, eForceVideo or eForceAudio3,.

Note

Defaults are stored per board: PortNumber in RefPhys is ignored.

8.8.4.61 void DCM::DeviceControl::OutTS_GetServiceAutoPassRules (in IPS_RefTS_t *RefOutTS*, out Service_AutoPassRules *AutoPassRules*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current service component auto pass rules.

The service components (ES, ECM, ES_ECM) follow the input (pass/delete) or are blocked.

Parameters

in	<i>RefOutTS</i>	The output TS defined by IPS_RefTS_t .
out	<i>AutoPassRules</i>	defined by Service_AutoPassRules .

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	in case - Invalid output references are used - TS does not exist or is not for output.

8.8.4.62 void DCM::DeviceControl::OutTS_GetSI_PlayoutPeriods (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *TS_List*, out TS_SI_Table_Periods_List_t *Periods*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

this gets the playout periods for all supported SI tables for one or more TS

Parameters

in	<i>RefPhys</i>	The slot(board) and port to apply the call on. Port can be 0xFFFF (all ports) but can also be a specific port.
in	<i>TS_List</i>	List of all TS-es we want info upon. Empty->every TS matching Ref-Phys.
out	<i>Periods</i>	

Returns

Periods List of all SI tables for all standards + periods for the requested TS

Exceptions

<i>OpNotSupported</i>	When called for other than IO boards (Main).
<i>OpNotSucceeded</i>	RefTS: TS_List[i].PhysRef does not match RefPhys (BoardNr and/or portnr) or RefPhys is invalid
<i>OpNotSucceeded</i>	TS in TS_list non existent or invalid

8.8.4.63 void DCM::DeviceControl::OutTS_GetSubtableAutoPass (in IPS_RefTS_t *RefOutTS*, out SI_AutoPassRules_List_t *SI_AutoPassRules_List*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current SI subtable auto pass rules.

Parameters

in	<i>RefOutTS</i>	The output TS defined by IPS_RefTS_t .
out	<i>SI_AutoPassRules_List</i>	Subtables to auto-pass and exceptions.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	in case - Invalid output references are used - TS does not exist or is not for output.

Version

Release 7.1

8.8.4.64 void DCM::DeviceControl::OutTS_GetTSAutoPassRules (in IPS_RefTS_t *RefOutTS*, out TS_AutoPassRules_List_t *AutoPassRulesList*, out TS_AutoPassRulesDisableFlags *AutoPassRulesDisableFlags*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the Auto Pass Rules for an Output TS (MPTS Pass Through).

Parameters

in	<i>RefOutTS</i>	The output TS.
out	<i>AutoPassRulesList</i>	A list of the rules that are currently used.
out	<i>AutoPassRulesDisableFlags</i>	The flags that are set by the system.

Exceptions

<i>OpNotSucceeded</i>	TS if - Invalid output references are used. - TS does not exist or is not for output.
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8.8.4.65 void DCM::DeviceControl::OutTS_InsertCATDescriptors_GetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, out OutTS_InsertCATDescriptors_List_t *OutTS_InsertCATDescriptors_List*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get TS Insert CAT Descriptors mode.

Parameters

in	<i>RefPhys</i>	The port from which to retrieve settings
in	<i>RefTsList</i>	List of TSs for which to retrieve settings
in	<i>OutTS_InsertCATDescriptors_List</i>	A list of TSs with their setting

Exceptions

<i>OpNotSupported</i>	in case - BoardNr = 0 = Main board - DCM version < 9.10 - called for board which doesn't have physical output (e.g. transcoder board)
<i>OperationFailed</i>	in case - Invalid output references are used - TS does not exist or is not for output.
<i>OpNotSucceeded,:</i>	Unspecified error.

Version

Release 9.10

8.8.4.66 void DCM::DeviceControl::OutTS_InsertCATDescriptors_SetL (in IPS_Ref_t *RefPhys*, in OutTS_InsertCATDescriptors_List_t *OutTS_InsertCATDescriptors_List*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set TS Insert CAT Descriptors mode.

Parameters

in	<i>RefPhys</i>	The port on which to configure TSs
in	<i>OutTS_InsertCATDescriptors_List</i>	A list of TSs with their setting

Exceptions

<i>OpNotSupported</i>	in case • BoardNr = 0 = Main board • DCM version < 9.10 • called for board which doesn't have physical output (e.g. transcoder board)
<i>OperationFailed</i>	in case • Invalid output references are used • TS does not exist or is not for output.
<i>OpNotSucceeded,:</i>	Unspecified error.

Version

Release 9.10

8.8.4.67 void DCM::DeviceControl::OutTS_NitInPat_GetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, out OutTS_NitInPat_List_t *OutTS_NitInPat_List*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get TS NIT in PAT mode.

Parameters

in	<i>RefPhys</i>	The port from which to retrieve settings
in	<i>RefTsList</i>	List of TSs for which to retrieve settings
in	<i>OutTS_NitInPat_List</i>	A list of TSs with their setting

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board or DCM version < 4.5
<i>OpNotSucceeded</i>	in case • Invalid output references are used • TS does not exist or is not for output.

8.8.4.68 void DCM::DeviceControl::OutTS_NitInPat_SetL (in IPS_Ref_t *RefPhys*, in OutTS_NitInPat_List_t *OutTS_NitInPat_List*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set TS NIT in PAT mode.

Parameters

in	<i>RefPhys</i>	The port on which to configure TSs
in	<i>OutTS_NitInPat_List</i>	A list of TSs with their setting

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board or DCM version < 4.5
<i>OpNotSucceeded</i>	in case - Invalid output references are used - TS does not exist or is not for output.

8.8.4.69 void DCM::DeviceControl::OutTS_SetServiceAutoPassRules (in IPS_RefTS_t *RefOutTS*, in Service_AutoPassRules *AutoPassRules*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set service component auto pass rules.

The service components (ES, ECM, ES_ECM) follow the input (pass/delete) or are blocked.

Parameters

in	<i>RefOutTS</i>	The output TS defined by IPS_RefTS_t .
in	<i>AutoPassRules</i>	defined by Service_AutoPassRules .

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	in case - Invalid output references are used - TS does not exist or is not for output. - User tries to enable one of the options while the corresponding AutoPassRules.Disabled flag is set.

8.8.4.70 void DCM::DeviceControl::OutTS_SetSI_PlayoutPeriods (in IPS_Ref_t *RefPhys*, in TS_SI_Table_Periods_List_t *Periods*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

this gets the playout periods for all supported SI tables for one or more TS

Parameters

in	<i>RefPhys</i>	The slot(board) and port to apply the call on. Port must be 0xFFFF (boardsetting)
in	<i>Periods</i>	List of all periods to set

Exceptions

<i>OpNotSupported</i>	When called for other than IO boards (Main).
<i>OpNotSucceeded</i>	RefTS: Periods[i].TS.PhysRef does not match RefPhys (BoardNr and/or portnr) or RefPhys is invalid
<i>OpNotSucceeded</i>	Periods[i].TS non existent or invalid
<i>OutOfRange</i>	Periods[i].Period above maximum or below minimum

8.8.4.71 void DCM::DeviceControl::OutTS_SetSubtableAutoPass (in IPS_RefTS_t *RefOutTS*, in SI_AutoPassRules_List_t *SI_AutoPassRules_List*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set SI subtable auto pass rules.

Parameters

in	<i>RefOutTS</i>	The output TS defined by IPS_RefTS_t .
in	<i>SI_AutoPassRules_List</i>	Subtables to auto-pass and exceptions.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	in case - Invalid output references are used - TS does not exist or is not for output.

Version

Release 7.1

8.8.4.72 void DCM::DeviceControl::OutTS_SetTSAutoPassRules (in IPS_RefTS_t *RefOutTS*, in TS_AutoPassRules_List_t *AutoPassRulesList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the Auto Pass Rules for an Output TS (MPTS Pass Through).

Specify from which Input TS all Services, EMMs and/or Unreferenced PIDs should be passed to this Output TS.

Parameters

in	<i>RefOutTS</i>	The output ts.
in	<i>AutoPassRulesList</i>	A list of the rules that should be used.

Exceptions

<i>OpNotSucceeded</i>	- Invalid output references are used. - TS does not exist or is not for output. - The TS_AutoPassRules.InputRef member does not exist or is not for input. - User tries to enable one of the options while the corresponding Disabled flag is set.
-----------------------	---

8.8.4.73 PortTsSvcProps_List_t DCM::DeviceControl::PortInTsSvcPropsGetL (in IPS_Ref_t RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported,OperationFailed)

Get the aggregated TS and Service Properties per Input Port.

Parameters

in	RefPhys	The BoardNr and PortNr you want information about.
----	---------	--

Returns

PortTsSvcProps_List_t, sequence of aggregated properties for all TS and services per port

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board
<i>OperationFailed</i>	when given port is not an input port
<i>OperationFailed</i>	when 0xFFFF (all ports) is passed as port number
<i>OperationFailed</i>	when property collection fails

Version

Release 11.10

8.8.4.74 PortTsSvcProps_List_t DCM::DeviceControl::PortOutTsSvcPropsGetL (in IPS_Ref_t RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported,OperationFailed)

Get the aggregated TS and Service Properties per Output Port.

Parameters

in	RefPhys	The BoardNr and PortNr you want information about.
----	---------	--

Returns

PortTsSvcProps_List_t, sequence of aggregated properties for all TS and services per port

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board
<i>OperationFailed</i>	When given port is not an output port
<i>OperationFailed</i>	when property collection fails

Note

- A value of 0xFFFF for port means all ports.

Version

Release 11.10

8.8.4.75 void DCM::DeviceControl::ReserveInputTS (in IPS_RefTS_t *TS*, in unsigned long *Reserve*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Reserves input TS If a TS is created and not used (no services or PIDs passed from that TS or TS has no input settings) and the TS is not present at the input, it will be deleted after two minutes.

With this call it is possible to prevent that the TS will be deleted if it is not present at the input

Parameters

in	<i>TS</i>	specifies BoardNr, PortNr.and TS
in	<i>Reserve</i>	Reserve flag: different from 0 if TS needs to be kept 0 (zero) if TS can be deleted if not present at the input

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
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8.8.4.76 void DCM::DeviceControl::SetDefault_InsertCATDescriptors (in unsigned short *BoardNumber*, in eInsertCATDescriptors *InsertCATDescriptors*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set default Insert CAT Descriptors mode settings to be used for newly created output TSs Defaults are attached to a board.

The change takes effect when a new TS is created.

Parameters

in	<i>BoardNumber</i>	The BoardNumber of which parameters need to be changed.
in	<i>InsertCAT-Descriptors</i>	The new default setting.

Exceptions

<i>OpNotSupported</i>	in case - BoardNr = 0 = Main board - DCM version < 9.10 - called for board which doesn't have physical output (e.g. transcoder board)
<i>OperationFailed</i>	In case - BoardNumber does not exist - InsertCATDescriptors out of range
<i>OpNotSucceeded</i>	Unspecified error

Version

Release 9.10

8.8.4.77 void DCM::DeviceControl::SetDefault_NitInPat (in unsigned short *BoardNumber*, in eNitInPat *NitInPat*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default Nit in PAT mode settings to be used for newly created output TSs Defaults are attached to a board.

The change takes effect when a new TS is created.

Parameters

in	<i>BoardNumber</i>	The BoardNumber of which parameters need to be changed.
in	<i>NitInPat</i>	The new default setting.

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OpNotSucceeded</i>	In case of - BoardNumber does not exist - NitInPat out of range

8.8.4.78 void DCM::DeviceControl::SetDefault_SourceUdp (in unsigned short *Board*, in unsigned short *SourceUdp*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default source UDP port number for a new TS.

Parameters

in	<i>Board</i>	An unsigned short to indicate the slot.
in	<i>SourceUdp</i>	The default source UDP port number.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, asi, ..).
<i>OpNotSucceeded</i>	in case of Invalid reference Board

8.8.4.79 void DCM::DeviceControl::SetDefaultAutoPassRules (in unsigned short *BoardNr*, in DefaultAutoPassRules *rules*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the board default auto pass rules for service component passing.

These settings are copied to any newly created output TS.

Parameters

in	<i>BoardNr</i>	The slot the settings refer to.
in	<i>rules</i>	The new DefaultAutoPassRules .

8.8.4.80 void DCM::DeviceControl::SetDefaultForbiddenPidRanges (in unsigned short *SlotNumber*, in ForbiddenPidRange_List_t *RangeList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets a number of default Forbidden Output PID ranges (PIDs that may not be used at the Output).

The maximum number of total ranges is set to 5, each range should be distinct from another. The maximum width of the range is defined as 1000. Each time a new output transport stream is created, it will take over the default forbidden pid ranges. Any old ranges already present will be replaced with the newly provided list.

Parameters

in	<i>SlotNumber</i>	Slot number
in	<i>RangeList</i>	The list of forbidden pid ranges to be added or removed

Exceptions

<i>OpNotSupported</i>	When SlotNumber = 0 = Main board.
<i>OpNotSucceeded</i>	In case of too many ranges added, ranges overlap, range too wide •

Version

Release 8.0

8.8.4.81 void DCM::DeviceControl::SetDefaultPriorityBit (in unsigned short *SlotNbr*, in ePriorityBitMode *PriorityBitSetting*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set default priority setting for new input TS.

Parameters

in	<i>SlotNbr</i>	Specifies the BoardNr on which to apply these defaults.
in	<i>PriorityBit-Setting</i>	ePrioBitSetting_t values for new input TSs.

Exceptions

<i>OpNotSupported</i>	When called for other than IO boards (Main).
<i>OpNotSucceeded</i>	In case of • Invalid enum values. • For board wide setting the new value must be one of eTransparent, eForceToOne or eForceToZero.
<i>LicenseError</i>	In case PRIORITY_BIT_ADAPTATION license is missing.

Version

Release 7.5

8.8.4.82 void DCM::DeviceControl::SetDefaultTBSMode_V2 (in unsigned short *BoardNumber*, in eTimeBaseSelectionMode_V2 *TBS_Mode*, in boolean *FastLock*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default [Time](#) Base Selection Mode to be used for newly created input TSs.

Defaults are set at the board level. eTBS_ForcedPCR and eTBS_CBR_ForcedPCR are not an option here, since this requires a Service Id as well. The board level default takes effect when a new input TS is created.

Parameters

in	<i>BoardNumber</i>	The BoardNumber of which parameters need to be changed.
in	<i>TBS_Mode</i>	The new default setting
in	<i>FastLock</i>	Should always be set to false.

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OperationFailed</i>	in case - BoardNumber does not identify a Gbe board - The requested default mode is eTBS_ForcedPCR or is out of range.
<i>OpNotSucceeded</i>	: Unspecified error

Version

Supported since release 10.30

8.8.4.83 void DCM::DeviceControl::SetDefaultTimeBaseSelectionMode (in unsigned short *BoardNumber*, in eTimeBaseSelectionMode *TBS_Mode*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default [Time](#) Base Selection Mode to be used for newly created input TSs.

Defaults are set at the board level. eTBS_ForcedPCR and eTBS_CBR_ForcedPCR are not an option here, since this requires a Service Id as well. The board level default takes effect when a new input TS is created.

Parameters

in	<i>BoardNumber</i>	The BoardNumber of which parameters need to be changed.
in	<i>TBS_Mode</i>	The new default setting

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OpNotSucceeded</i>	In case of - BoardNumber does not identify a Gbe board - The requested default mode is eTBS_ForcedPCR or is out of range.

Deprecated Since version 10.30, use SetDefaultTBSMode_V2 instead

8.8.4.84 void DCM::DeviceControl::SetForbiddenPidRanges (in IPS_RefTS_t *RefTS*, in ForbiddenPidRange_List_t *RangeList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets a number of Forbidden Output PID ranges (PIDs that may not be used at the Output).

to a specific output transport stream. The maximum number of total ranges is set to 5, each range should be distinct from another. The maximum width of the range is defined as 1000. Any old ranges already present will be replaced with the newly provided list.

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the output transport stream.
in	<i>RangeList</i>	The list of forbidden pid ranges to be added or removed

Exceptions

<i>OpNotSupported</i>	When SlotNumber = 0 = Main board.
<i>OpNotSucceeded</i>	In case of too many ranges added, ranges overlap, range too wide, output TS cannot be found •

Version

Release 8.0

8.8.4.85 void DCM::DeviceControl::SetPassMotorolaTables (in unsigned short *BoardNumber*, in boolean *Pass*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the Pass Motorola C0/C1 table setting.

Parameters

in	<i>BoardNumber</i>	The board number of which we want the information.
in	<i>Pass</i>	The new setting to apply.

Exceptions

<i>OpNotSupported</i>	When called for other than IO boards (Main).
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Version

Release 7.5

8.8.4.86 void DCM::DeviceControl::SetSI_DefaultGenerationModes (in IPS_Ref_t *RefPhys*, in SI_Table_GenerationMode_List_t *Modes*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

This sets the default generation mode of all supported SI tables for one or more TS.

Parameters

in	<i>RefPhys</i>	The slot (board) and port to apply the call on. (Port mux be 0xFFFF, because boardsetting)
in	<i>Modes</i>	list with generation modes for tables (only supported for TDT and TOT)

Exceptions

<i>OpNotSupported</i>	RefPhys invalid
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8.8.4.87 void DCM::DeviceControl::SetSI_DefaultPayoutPeriods (in IPS_Ref_t *RefPhys*, in SI_Table_Period_List_t *Periods*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

this sets the defaults for any subset of the supported SI tables (or for all)

Parameters

in	<i>RefPhys</i>	The slot(board) and port to apply the call on. Port must be 0xFFFF (boardsetting)
in	<i>Periods</i>	list of SI_Payout_List_t

Exceptions

<i>OpNotSupported</i>	When called for other than IO boards (Main).
<i>OpNotSucceeded</i>	Periods[i].Ref invalid or RefPhys invalid
<i>OutOfRange</i>	Periods[i].Period above maximum or below minimum

8.8.4.88 void DCM::DeviceControl::SetTOT_Timezones (in IPS_Ref_t *RefPhys*, in TS_TOT_Timezone_List_t *Timezones*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

This sets the TOT descriptor timezones for one or more TS's.

Parameters

in	<i>RefPhys</i>	reference to board, port
in	<i>Timezones</i>	list of TS's with corresponding timezones

Exceptions

<i>OpNotSucceeded</i>	in case of invalid references (RefTS)
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8.8.4.89 void DCM::DeviceControl::TimeBaseSelectionMode_DelL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Revert the [Time](#) Base Selection Mode to default for a list of input TSs.

Parameters

in	<i>RefPhys</i>	The port for which to change to settings
in	<i>RefTsList</i>	List of TSs for which to delete the settings

Exceptions

<i>OpNotSupported</i>	When BoardNr does not identify a Gbe board
<i>OpNotSucceeded</i>	in case - Invalid input references are used - Inconsistency between RefPhys.PortNr and RefTsList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF. - TS does not exist or is not for input

8.8.4.90 void DCM::DeviceControl::TimeBaseSelectionMode_GetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, out InTS_TimeBaseSelectionMode_List_t *TBS_List*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the [Time](#) Base Selection Mode for a list of input TSs.

Parameters

in	<i>RefPhys</i>	The port from which to retrieve settings
in	<i>RefTsList</i>	List of TSs for which to retrieve settings
out	<i>TBS_List</i>	A list of Input TSs with their setting

Exceptions

<i>OpNotSupported</i>	When BoardNr does not identify a Gbe board
<i>OpNotSucceeded</i>	in case - Invalid input references are used - Inconsistency between RefPhys.PortNr and RefTsList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF. - TS does not exist or is not for input

Deprecated Since version 10.30, use TimeBaseSelectionMode_V2_GetL instead

8.8.4.91 void DCM::DeviceControl::TimeBaseSelectionMode_SetL (in IPS_Ref_t *RefPhys*, in InTS_TimeBaseSelectionMode_List_t *TBS_List*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the [Time](#) Base Selection Mode for a list of input TSs.

Parameters

in	<i>RefPhys</i>	The port on which to configure TSs
in	<i>TBS_List</i>	A list of input TSs with their setting

Exceptions

<i>OpNotSupported</i>	When BoardNr does not identify a Gbe board
<i>OpNotSucceeded</i>	in case - Invalid input references are used - Inconsistency between RefPhys.PortNr and TBS_List[x].RefTSIn.Ref.PortNr in case RefPhys.PortNr != 0xFFFF. - TS does not exist or is not for input

Deprecated Since version 10.30, use TimeBaseSelectionMode_V2_SetL instead

8.8.4.92 void DCM::DeviceControl::TimeBaseSelectionMode_V2_GetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, out InTS_TimeBaseSelectionMode_List_V2_t *TBS_List*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the [Time](#) Base Selection Mode for a list of input TSs.

Parameters

in	<i>RefPhys</i>	The port from which to retrieve settings
in	<i>RefTsList</i>	List of TSs for which to retrieve settings
out	<i>TBS_List</i>	A list of Input TSs with their setting

Exceptions

<i>OpNotSupported</i>	When BoardNr does not identify a Gbe board
<i>OperationFailed</i>	in case - Invalid input references are used - Inconsistency between RefPhys.PortNr and RefTsList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF. - TS does not exist or is not for input
<i>OpNotSucceeded</i>	: Unspecified error

Version

Supported since release 10.30

8.8.4.93 void DCM::DeviceControl::TimeBaseSelectionMode_V2_SetL (in IPS_Ref_t *RefPhys*, in InTS_TimeBaseSelectionMode_List_V2_t *TBS_List*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set the [Time](#) Base Selection Mode for a list of input TSs.

Parameters

in	<i>RefPhys</i>	The port on which to configure TSs
in	<i>TBS_List</i>	A list of input TSs with their setting

Exceptions

<i>OpNotSupported</i>	When BoardNr does not identify a Gbe board
<i>OperationFailed</i>	in case • Invalid input references are used • Inconsistency between RefPhys.PortNr and TBS_List[x].RefTSIn.Ref.PortNr in case RefPhys.PortNr != 0xFFFF. • TS does not exist or is not for input
<i>OpNotSucceeded,:</i>	Unspecified error

Version

Supported since release 10.30

8.8.5 Variable Documentation**8.8.5.1 const unsigned long DCM::DeviceControl::ANY_REF = 0xffffffff**

Only for input parameters.

If you want all TS on a port or board.

Definition at line 2290 of file DCM.idl.

8.8.5.2 const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_ALARM_ACTIVE = 0x100

Will be set when Asi sync Loss of UDP Stream Loss detected.

Definition at line 2338 of file DCM.idl.

8.8.5.3 const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_EMMS_PRESENT = 0x1

Definition at line 2330 of file DCM.idl.

8.8.5.4 const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_FEC_COL_PRESENT = 0x200

Will be set when FEC column stream is present.

Definition at line 2339 of file DCM.idl.

8.8.5.5 const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_FEC_ROW_PRESENT = 0x400

Will be set when FEC row stream is present.

Definition at line 2340 of file DCM.idl.

8.8.5.6 const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_IN_BACKUP = 0x800

Will be set when TS is in Backup.

Definition at line 2341 of file DCM.idl.

8.8.5.7 `const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_INPUT_PRESENT = 0x80`

Will be set when there is signal detected.

Definition at line 2337 of file DCM.idl.

8.8.5.8 `const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_PRIV_DATA_EMMG = 0x4`

Definition at line 2332 of file DCM.idl.

8.8.5.9 `const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_ROUTED = 0x40`

Will be set when any component is routed to an output.

Definition at line 2336 of file DCM.idl.

8.8.5.10 `const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_RTP_ON = 0x8`

Definition at line 2333 of file DCM.idl.

8.8.5.11 `const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_TSLOSS_ALARM_ACTIVE = 0x2000`

Will be set when TsLoss Alarm is active (backup trigger).

Definition at line 2343 of file DCM.idl.

8.8.5.12 `const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_UNREF_PIDS_PRESENT = 0x2`

Definition at line 2331 of file DCM.idl.

8.8.5.13 `const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_UNREF_PIDS_ROUTED = 0x1000`

Will be set when unreferenced PIDs are routed.

Definition at line 2342 of file DCM.idl.

8.8.5.14 `const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_VBR_ON = 0x20`

May be senseless on input but let's try to be symmetrically.

Definition at line 2335 of file DCM.idl.

8.8.5.15 `const unsigned long DCM::DeviceControl::BITMAP_INPUT_TS_VLAN_ON = 0x10`

May be senseless on input but let's try to be symmetrically.

Definition at line 2334 of file DCM.idl.

8.8.5.16 `const unsigned long DCM::DeviceControl::BITMAP_OUTPUT_TS_EMMS_PRESENT = 0x1`

Definition at line 2437 of file DCM.idl.

8.8.5.17 `const unsigned long DCM::DeviceControl::BITMAP_OUTPUT_TS_FEC_COL_PRESENT = 0x200`

Will be set when FEC column stream is enabled.

Definition at line 2443 of file DCM.idl.

8.8.5.18 `const unsigned long DCM::DeviceControl::BITMAP_OUTPUT_TS_FEC_ROW_PRESENT = 0x400`

Will be set when FEC row stream is enabled.

Definition at line 2444 of file DCM.idl.

8.8.5.19 `const unsigned long DCM::DeviceControl::BITMAP_OUTPUT_TS_PRIV_DATA_EMMG = 0x4`

Definition at line 2439 of file DCM.idl.

8.8.5.20 `const unsigned long DCM::DeviceControl::BITMAP_OUTPUT_TS_RTP_ON = 0x8`

Definition at line 2440 of file DCM.idl.

8.8.5.21 `const unsigned long DCM::DeviceControl::BITMAP_OUTPUT_TS_UNREF_PIDS_PRESENT = 0x2`

Definition at line 2438 of file DCM.idl.

8.8.5.22 `const unsigned long DCM::DeviceControl::BITMAP_OUTPUT_TS_VBR_ON = 0x20`

Definition at line 2442 of file DCM.idl.

8.8.5.23 `const unsigned long DCM::DeviceControl::BITMAP_OUTPUT_TS_VLAN_ON = 0x10`

Definition at line 2441 of file DCM.idl.

8.8.5.24 `const unsigned long DCM::DeviceControl::INVALID_REF = 0xffffffff`

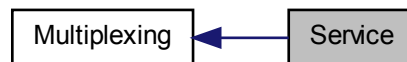
Undefined Ref.

Definition at line 2286 of file DCM.idl.

8.9 Service

This contains types, enums and methods to configure the TS Services of the multiplexer part in the device.

Collaboration diagram for Service:



Classes

- struct [DCM::DeviceControl::IPS_Service_t](#)
SID reference.
- struct [DCM::DeviceControl::IPS_Service_In_t](#)
Incoming service information.
- struct [DCM::DeviceControl::IPS_SDT_Data_t](#)
Structure that contains data about the Service Description Table of a service.
- struct [DCM::DeviceControl::IPS_ServiceData_Out_t](#)
- struct [DCM::DeviceControl::IPS_RefSvc_t](#)
A reference to a service.
- struct [DCM::DeviceControl::IPS_Service_In_V2_t](#)
A definition of an input service as used on the output.
- struct [DCM::DeviceControl::IPS_ServiceData_Out_V2_t](#)
Extended information about an output service.
- struct [DCM::DeviceControl::IPS_ServiceData_Out_V3_t](#)
Extended information about an output service.
- struct [DCM::DeviceControl::ServiceBlockCAInfo_t](#)
Outgoing service information.
- struct [DCM::DeviceControl::TC_ServiceData_t](#)
Structure with service data for a transcoder board.
- struct [DCM::DeviceControl::TrackingCriterium_t](#)
- struct [DCM::DeviceControl::MergeCriterium_t](#)
- struct [DCM::DeviceControl::ComponentMergeCriterium_t](#)
- struct [DCM::DeviceControl::IPS_MergedInService_t](#)
- struct [DCM::DeviceControl::AltSrcMergedSetting_t](#)
- struct [DCM::DeviceControl::IPS_Serv_Dest_t](#)
- struct [DCM::DeviceControl::TC_ServiceDataV2_t](#)
Structure with service data for a transcoder board.

Typedefs

- typedef unsigned long [DCM::DeviceControl::ServiceId_t](#)
service id type
- typedef sequence< IPS_Service_t > [DCM::DeviceControl::IPS_Service_List_t](#)
A sequence of [IPS_Service_t](#).
- typedef unsigned long [DCM::DeviceControl::AlternateSrcId_t](#)
alternate source id type
- typedef sequence< ServiceId_t > [DCM::DeviceControl::ServiceIdList_t](#)
List of service ID's to use as a filter in [IPS_InServiceGetL\(\)](#) and [IPS_OutServiceGetL\(\)](#).
- typedef sequence< octet > [DCM::DeviceControl::DvbString_t](#)
- typedef sequence< IPS_Service_In_t > [DCM::DeviceControl::IPS_ServiceIn_List_t](#)
A sequence of [IPS_Service_In_t](#).
- typedef sequence< IPS_ServiceData_Out_t > [DCM::DeviceControl::IPS_ServiceDataOut_List_t](#)
A sequence of [IPS_ServiceData_Out_t](#) entries.
- typedef sequence< IPS_RefSvc_t > [DCM::DeviceControl::IPS_RefSvc_List_t](#)
A sequence of [IPS_RefSvc_t](#) entries.
- typedef sequence< unsigned short > [DCM::DeviceControl::SidList_t](#)
- typedef sequence< IPS_ServiceData_Out_V2_t > [DCM::DeviceControl::IPS_ServiceDataOut_List_V2_t](#)
A sequence of [IPS_ServiceData_Out_V2_t](#) entries.
- typedef sequence< IPS_ServiceData_Out_V3_t > [DCM::DeviceControl::IPS_ServiceDataOut_List_V3_t](#)
A sequence of [IPS_ServiceData_Out_V3_t](#) entries.
- typedef sequence< ServiceBlockCAInfo_t > [DCM::DeviceControl::ServiceBlockCAInfo_List_t](#)
A sequence of [ServiceBlockCAInfo_t](#) entries.
- typedef sequence< TC_ServiceData_t > [DCM::DeviceControl::TC_ServiceData_List_t](#)
A sequence of [TC_ServiceData_t](#) entries.
- typedef sequence< MergeCriterium_t > [DCM::DeviceControl::MergeCriteriumList_t](#)
- typedef sequence< ComponentMergeCriterium_t > [DCM::DeviceControl::ComponentMergeCriteriumList_t](#)
- typedef sequence< IPS_MergedInService_t > [DCM::DeviceControl::IPS_MergedInServiceList_t](#)
- typedef sequence< AlternateSrcId_t > [DCM::DeviceControl::AlternateSrcIdList_t](#)
- typedef sequence< AltSrcMergedSetting_t > [DCM::DeviceControl::AltSrcMergedSettingList_t](#)
A sequence of [AlternateSvcMergedList_t](#) elements.
- typedef unsigned long [DCM::DeviceControl::SourceType_t](#)
bitmap : bit 0 means it is an alternate source < bit 1 means it is a TS backup source < bit 2 means it is a service backup source < bit 3 means it is a merged service source < bit 4 means it is a merged component source < bit 5 means it is a LPI or Ad source < bit 6 means it is an EBIF source < no bits set means it is the main service that was routed
- typedef sequence< SourceType_t > [DCM::DeviceControl::IPS_Serv_Source_List_t](#)
- typedef sequence< IPS_Serv_Dest_t > [DCM::DeviceControl::IPS_Serv_Dest_List_t](#)
- typedef sequence< TC_ServiceDataV2_t > [DCM::DeviceControl::TC_ServiceDataV2_List_t](#)
A sequence of [TC_ServiceData_t](#) entries.

Enumerations

- enum `DCM::DeviceControl::eEitSchedule` { `DCM::DeviceControl::eEitSch_Transparent`, `DCM::DeviceControl::eEitSch_ForceEitScheduleNotPresent`, `DCM::DeviceControl::eEitSch_ForceEitSchedulePresent` }
EIT Schedule flag.
- enum `DCM::DeviceControl::eEitPresentFollow` { `DCM::DeviceControl::eEitPF_Transparent`, `DCM::DeviceControl::eEitPF_ForceEitPresentFollowingNotPresent`, `DCM::DeviceControl::eEitPF_ForceEitPresentFollowingPresent` }
EIT Present Following present flag.
- enum `DCM::DeviceControl::eCaMode` { `DCM::DeviceControl::eCA_Transparent`, `DCM::DeviceControl::eCA_ForceNotScrambled`, `DCM::DeviceControl::eCA_ForceScrambled` }
The Conditional Access (CA) Mode.
- enum `DCM::DeviceControl::eRunningStatus` { `DCM::DeviceControl::eRS_Undefined`, `DCM::DeviceControl::eRS_NotRunning`, `DCM::DeviceControl::eRS_StartSoon`, `DCM::DeviceControl::eRS_Pausing`, `DCM::DeviceControl::eRS_Running`, `DCM::DeviceControl::eRS_Future`, `DCM::DeviceControl::eRS_Transparent` }
The Running status - This indicates the status of the service.
- enum `DCM::DeviceControl::eServiceType` { `DCM::DeviceControl::eST_Transparent`, `DCM::DeviceControl::eST_DigitalTv`, `DCM::DeviceControl::eST_DigitalRadio`, `DCM::DeviceControl::eST_Teletext`, `DCM::DeviceControl::eST_NVODReference`, `DCM::DeviceControl::eST_NVODTimeShifted`, `DCM::DeviceControl::eST_Mosaic`, `DCM::DeviceControl::eST_Pal`, `DCM::DeviceControl::eST_Secam`, `DCM::DeviceControl::eST_Dd2Mac`, `DCM::DeviceControl::eST_FmRadio`, `DCM::DeviceControl::eST_Ntsc`, `DCM::DeviceControl::eST_DataBroadcast`, `DCM::DeviceControl::eST_Reserved`, `DCM::DeviceControl::eST_RcsMap`, `DCM::DeviceControl::eST_RcsFls`, `DCM::DeviceControl::eST_DvbMhp`, `DCM::DeviceControl::eST_Mpeg2HD`, `DCM::DeviceControl::eST_Reserved18`, `DCM::DeviceControl::eST_Reserved19`, `DCM::DeviceControl::eST_Reserved20`, `DCM::DeviceControl::eST_Reserved21`, `DCM::DeviceControl::eST_AdvancedSD`, `DCM::DeviceControl::eST_AdvancedSD_NVOD_TimeShifted`, `DCM::DeviceControl::eST_AdvancedSD_NVOD_Reference`, `DCM::DeviceControl::eST_AdvancedHD`, `DCM::DeviceControl::eST_AdvancedHD_NVOD_TimeShifted`, `DCM::DeviceControl::eST_AdvancedHD_NVOD_Reference` }
The Service Type.
- enum `DCM::DeviceControl::enuTrackTypeV2` { `DCM::DeviceControl::eTrackV2_ComponentTag`, `DCM::DeviceControl::eTrackV2_Pcr`, `DCM::DeviceControl::eTrackV2_StreamType`, `DCM::DeviceControl::eTrackV2_EsPid`, `DCM::DeviceControl::eTrackV2_EcmPid`, `DCM::DeviceControl::eTrackV2_EsEcmPid`, `DCM::DeviceControl::eTrackV2_EcmCasId`, `DCM::DeviceControl::eTrackV2_EsEcmCasId` }
The type of tracking criterium.

Functions

- `IPS_ServiceIn_List_t DCM::DeviceControl::IPS_InServiceGetL` (in `IPS_RefTS_t RefTS`, in `ServiceIdList_t InputSidList`) raises (`Timeout`, `OpNotSucceeded`, `OpNotAllowed`, `OpNotSupported`)
Gets the list of services on an input TS that are passed to an output or currently present in the incoming transport stream.
- `IPS_ServiceDataOut_List_t DCM::DeviceControl::IPS_OutServiceGetL` (in `IPS_RefTS_t RefTS`, in `ServiceIdList_t OutputSidList`) raises (`Timeout`, `OpNotSucceeded`, `OpNotAllowed`, `OpNotSupported`)
Get the list of services on an output TS.
- `void DCM::DeviceControl::IPS_OutServiceDeleteL` (in `IPS_Ref_t RefPhys`, in `IPS_Service_List_t ServiceList`) raises (`Timeout`, `OpNotSucceeded`, `OpNotAllowed`, `OpNotSupported`)

Delete a list of services in one or more TS on the same board.

- void [DCM::DeviceControl::IPS_OutServiceAddL](#) (in IPS_Ref_t RefPhys, in IPS_ServiceDataOut_List_t ServiceDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a list of services to one or more outgoing TS on the same RefPhys.

- void [DCM::DeviceControl::IPS_InServiceSetL](#) (in IPS_Ref_t RefPhys, in IPS_ServiceIn_List_t ServiceDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set service details via a list on an input TS.

- void [DCM::DeviceControl::IPS_OutServiceSetL](#) (in IPS_Ref_t RefPhys, in IPS_ServiceDataOut_List_t ServiceDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, License-Error)

Set service details via a list on an output TS.

- void [DCM::DeviceControl::IPS_OutServiceAddMergeL](#) (in IPS_Service_t OutService, in IPS_Service_List_t ServiceMergeList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Merge list of input services into an output service.

- void [DCM::DeviceControl::IPS_OutServiceDelMergeL](#) (in IPS_Service_t OutService, in IPS_Service_List_t ServiceMergeList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

remove list of merged services from an output service.

- void [DCM::DeviceControl::IPS_OutServiceGetMergeL](#) (in IPS_Service_t OutService, out IPS_Merged-InServiceList_t ServiceMergeList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

get list of merged services from an output service.

- void [DCM::DeviceControl::IPS_OutServiceAddMergeL_V2](#) (in IPS_Service_t SvcOut, in AltSrc-MergedSetting_t AltSrcMergedSetting) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add merged source settings to an output service.

- void [DCM::DeviceControl::IPS_OutServiceGetMergeL_V2](#) (in IPS_Service_t SvcOut, in AlternateSrcIdList_t AlternateSrcIdList, out AltSrcMergedSettingList_t AltSrcMergedSetting) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

get list of merged services for a specific output service

- void [DCM::DeviceControl::IPS_OutServiceDelMergeL_V2](#) (in IPS_Service_t SvcOut, in AltSrc-MergedSetting_t AltSrcMergedSetting) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

remove list of merged services from output services.

- void [DCM::DeviceControl::IPS_OutServiceSetComponentMergeL](#) (in IPS_Service_t OutService, in ComponentMergeCriteriumList_t ComponentMergeList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the list of merged component tracking criteria for an output service.

- void [DCM::DeviceControl::IPS_OutServiceGetComponentMergeL](#) (in IPS_Service_t OutService, out ComponentMergeCriteriumList_t ComponentMergeList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of all merged component tracking criteria from an output service.

- void [DCM::DeviceControl::IPS_LookupOutService](#) (in IPS_RefTS_t OutputTS, in IPS_Service_t InputService, out IPS_Service_t OutputLookedUpService) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets matching output service for an input service and output TS.

- IPS_Serv_Dest_List_t [DCM::DeviceControl::GetDestinations](#) (in IPS_Service_t InputService) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported)

Find where a certain input service is routed to.

- ServiceBlockCAInfo_List_t [DCM::DeviceControl::ServiceBlockCAInfoGetL](#) (in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves for every service in the given list, if the BlockCA option is turned on.

- void [DCM::DeviceControl::ServiceBlockCAInfoSetL](#) (in IPS_RefTS_t RefTS, in ServiceBlockCAInfo_List_t ServiceBlockCAInfoList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Enables/disables blocking of CA info for a list of services.

- void [DCM::DeviceControl::IPS_OutServiceSetL_V2](#) (in IPS_Ref_t RefPhys, in IPS_ServiceDataOut_List_V2_t ServiceDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set service details via a list on an output TS.

- IPS_ServiceDataOut_List_V2_t [DCM::DeviceControl::IPS_OutServiceGetL_V2](#) (in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of services on an output TS.

- IPS_ServiceDataOut_List_V3_t [DCM::DeviceControl::IPS_OutServiceGetL_V3](#) (in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of services on an output TS.

- TC_ServiceData_List_t [DCM::DeviceControl::TC_ServiceGetL](#) (in unsigned short BoardNr, in IPS_RefSvc_List_t RefSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of services on a transcoder board.

- void [DCM::DeviceControl::TC_ServiceSetL](#) (in unsigned short BoardNr, in TC_ServiceData_List_t ServiceDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set service details of transcoder board services.

- TC_ServiceData_List_t [DCM::DeviceControl::ProcessorServiceAddL](#) (in unsigned short BoardNr, in IPS_RefSvc_List_t InputRefSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a list of services to a transcoder or MFP board and returns the output service data for those services.

- TC_ServiceDataV2_List_t [DCM::DeviceControl::TC_ServiceGetLV2](#) (in unsigned short BoardNr, in IPS_RefSvc_List_t RefSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the list of services on a transcoder board.

- void [DCM::DeviceControl::TC_ServiceSetLV2](#) (in unsigned short BoardNr, in TC_ServiceDataV2_List_t ServiceDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set service details of transcoder board services.

- void [DCM::DeviceControl::TC_ServiceAddL](#) (in unsigned short BoardNr, in IPS_RefSvc_List_t - InputRefSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a list of services to a transcoder board or MFP board.

- void [DCM::DeviceControl::TC_ServiceDeleteL](#) (in unsigned short BoardNr, in IPS_RefSvc_List_t RefSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a list of services on a transcoder board.

Variables

- const ServiceId_t `DCM::DeviceControl::INVALID_SID` = 0xffffffff
Undefined sid.
- const ServiceId_t `DCM::DeviceControl::ANY_SID` = 0xffffffff
Input parameter: Service creation: If you don't want any particular SID.
- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_PRESENT` = 0x1
- const unsigned long `DCM::DeviceControl::BITMAP_SCRAMBLED_BY_DCM` = 0x2
- const unsigned long `DCM::DeviceControl::BITMAP_ACTIVE` = 0x4
- const unsigned long `DCM::DeviceControl::BITMAP_MERGED_SERVICE` = 0x8
For output services.
- const unsigned long `DCM::DeviceControl::BITMAP_SERVICE_ALARM_ACTIVE` = 0x8
For input services.
- const unsigned long `DCM::DeviceControl::BITMAP_SCRAMBLED_ON_INPUT` = 0x10
- const unsigned long `DCM::DeviceControl::BITMAP_OUTPUT_SERVICE_ALARM_ACTIVE` = 0x40
For output services.
- const unsigned long `DCM::DeviceControl::BITMAP_INPUT_SIGNAL_PRESENT` = 0x80000000

8.9.1 Detailed Description

This contains types, enums and methods to configure the TS Services of the multiplexer part in the device.

8.9.2 Typedef Documentation

8.9.2.1 typedef unsigned long DCM::DeviceControl::AlternateSrcId_t

alternate source id type

Definition at line 4720 of file DCM.idl.

8.9.2.2 typedef sequence<AlternateSrcId_t> DCM::DeviceControl::AlternateSrcIdList_t

Definition at line 5262 of file DCM.idl.

8.9.2.3 typedef sequence<AltSrcMergedSetting_t> DCM::DeviceControl::AltSrcMergedSettingList_t

A sequence of AlternateSvcMergedList_t elements.

Definition at line 5271 of file DCM.idl.

8.9.2.4 typedef sequence<ComponentMergeCriterium_t> DCM::DeviceControl::ComponentMergeCriteriumList_t

Definition at line 5076 of file DCM.idl.

8.9.2.5 typedef sequence<octet> DCM::DeviceControl::DvbString_t

Definition at line 4727 of file DCM.idl.

8.9.2.6 typedef sequence<IPS_MergedInService_t> DCM::DeviceControl::IPS_MergedInServiceList_t

Definition at line 5219 of file DCM.idl.

8.9.2.7 typedef sequence<IPS_RefSvc_t> DCM::DeviceControl::IPS_RefSvc_List_t

A sequence of [IPS_RefSvc_t](#) entries.

Definition at line 4909 of file DCM.idl.

8.9.2.8 typedef sequence<IPS_Serv_Dest_t> DCM::DeviceControl::IPS_Serv_Dest_List_t

Definition at line 5409 of file DCM.idl.

8.9.2.9 typedef sequence< SourceType_t > DCM::DeviceControl::IPS_Serv_Source_List_t

Definition at line 5401 of file DCM.idl.

8.9.2.10 typedef sequence<IPS_Service_t> DCM::DeviceControl::IPS_Service_List_t

A sequence of [IPS_Service_t](#).

Definition at line 4717 of file DCM.idl.

8.9.2.11 typedef sequence<IPS_ServiceData_Out_t> DCM::DeviceControl::IPS_ServiceDataOut_List_t

A sequence of [IPS_ServiceData_Out_t](#) entries.

Definition at line 4898 of file DCM.idl.

8.9.2.12 typedef sequence<IPS_ServiceData_Out_V2_t> DCM::DeviceControl::IPS_ServiceDataOut_List_V2_t

A sequence of [IPS_ServiceData_Out_V2_t](#) entries.

Definition at line 4951 of file DCM.idl.

8.9.2.13 typedef sequence<IPS_ServiceData_Out_V3_t> DCM::DeviceControl::IPS_ServiceDataOut_List_V3_t

A sequence of [IPS_ServiceData_Out_V3_t](#) entries.

Definition at line 4983 of file DCM.idl.

8.9.2.14 typedef sequence<IPS_Service_In_t> DCM::DeviceControl::IPS_ServiceIn_List_t

A sequence of [IPS_Service_In_t](#).

Definition at line 4756 of file DCM.idl.

8.9.2.15 typedef sequence<MergeCriterium_t> DCM::DeviceControl::MergeCriteriumList_t

Definition at line 5065 of file DCM.idl.

8.9.2.16 typedef sequence<ServiceBlockCAInfo_t> DCM::DeviceControl::ServiceBlockCAInfo_List_t

A sequence of [ServiceBlockCAInfo_t](#) entries.

Definition at line 4995 of file DCM.idl.

8.9.2.17 typedef unsigned long DCM::DeviceControl::ServiceId_t

service id type

Definition at line 4699 of file DCM.idl.

8.9.2.18 typedef sequence<ServiceId_t> DCM::DeviceControl::ServiceIdList_t

List of service ID's to use as a filter in [IPS_InServiceGetL\(\)](#) and [IPS_OutServiceGetL\(\)](#).

Note

This used to be a list of short which was inconsistent. SID is an unsigned long.

Definition at line 4725 of file DCM.idl.

8.9.2.19 typedef sequence<unsigned short> DCM::DeviceControl::SidList_t

Definition at line 4911 of file DCM.idl.

8.9.2.20 typedef unsigned long DCM::DeviceControl::SourceType_t

bitmap : bit 0 means it is an alternate source < bit 1 means it is a TS backup source < bit 2 means it is a service backup source < bit 3 means it is a merged service source < bit 4 means it is a merged component source < bit 5 means it is a LPI or Ad source < bit 6 means it is an EBIF source < no bits set means it is the main service that was routed

Definition at line 5392 of file DCM.idl.

8.9.2.21 typedef sequence<TC_ServiceData_t> DCM::DeviceControl::TC_ServiceData_List_t

A sequence of [TC_ServiceData_t](#) entries.

Definition at line 5021 of file DCM.idl.

8.9.2.22 typedef sequence<TC_ServiceDataV2_t> DCM::DeviceControl::TC_ServiceDataV2_List_t

A sequence of [TC_ServiceData_t](#) entries.

Definition at line 5614 of file DCM.idl.

8.9.3 Enumeration Type Documentation**8.9.3.1 enum DCM::DeviceControl::eCaMode**

The Conditional Access (CA) Mode.

when set to "eCA_ForceNotScrambled" indicates that all the component streams of the service are not scrambled. When set to "eCA_ForceScrambled" it indicates that access to one or more streams may be controlled by a CA system.

Enumerator:

eCA_Transparent

eCA_ForceNotScrambled

eCA_ForceScrambled

Definition at line 4788 of file DCM.idl.

8.9.3.2 enum DCM::DeviceControl::eEitPresentFollow

EIT Present Following present flag.

when set to "eEitPF_ForceEitPresentFollowingPresent" indicates that EIT_present_following information for the service is present in the current TS,

Enumerator:

eEitPF_Transparent

eEitPF_ForceEitPresentFollowingNotPresent

eEitPF_ForceEitPresentFollowingPresent

Definition at line 4775 of file DCM.idl.

8.9.3.3 enum DCM::DeviceControl::eEitSchedule

EIT Schedule flag.

when set to "eEitSch_ForceEitSchedulePresent" indicates that EIT schedule information for the service is present in the current TS.

Enumerator:

eEitSch_Transparent

eEitSch_ForceEitScheduleNotPresent

eEitSch_ForceEitSchedulePresent

Definition at line 4763 of file DCM.idl.

8.9.3.4 enum DCM::DeviceControl::enuTrackTypeV2

The type of tracking criterium.

Enumerator:

eTrackV2_ComponentTag

eTrackV2_Pcr

eTrackV2_StreamType

eTrackV2_EsPid m_usInputPid <> INVALID_PID_VALUE, m_usInputECM_PID == INVALID_PID_VALUE.

eTrackV2_EcmPid m_usInputECM_PID <> INVALID_PID_VALUE, m_usInputPid == INVALID_PID_VALUE.

eTrackV2_EsEcmPid m_usInputECM_PID <> INVALID_PID_VALUE, m_usInputPid <> INVALID_PID_VALUE.

eTrackV2_EcmCasId

eTrackV2_EsEcmCasId

Definition at line 5024 of file DCM.idl.

8.9.3.5 enum DCM::DeviceControl::eRunningStatus

The Running status - This indicates the status of the service.

Enumerator:

- eRS_Undefined*
- eRS_NotRunning*
- eRS_StartSoon*
- eRS_Pausing*
- eRS_Running*
- eRS_Future*
- eRS_Transparent*

Definition at line 4797 of file DCM.idl.

8.9.3.6 enum DCM::DeviceControl::eServiceType

The Service Type.

NOTE: as of V04-05-22: eST_Undefined was at place 0, but it has been replaced by eST_Transparent because the enum has been expanded.

Enumerator:

- eST_Transparent*
- eST_DigitalTv*
- eST_DigitalRadio*
- eST_Teletext*
- eST_NVODReference*
- eST_NVODTimeShifted*
- eST_Mosaic*
- eST_Pal*
- eST_Secam*
- eST_Dd2Mac*
- eST_FmRadio*
- eST_Ntsc*
- eST_DataBroadcast*
- eST_Reserved*
- eST_RcsMap*
- eST_RcsFls*
- eST_DvbMhp*
- eST_Mpeg2HD*
- eST_Reserved18*
- eST_Reserved19*
- eST_Reserved20*
- eST_Reserved21*

eST_AdvancedSD
eST_AdvancedSD_NVOD_TimeShifted
eST_AdvancedSD_NVOD_Reference
eST_AdvancedHD
eST_AdvancedHD_NVOD_TimeShifted
eST_AdvancedHD_NVOD_Reference

Definition at line 4813 of file DCM.idl.

8.9.4 Function Documentation

8.9.4.1 IPS_Serv_Dest_List_t DCM::DeviceControl::GetDestinations (in IPS_Service_t *InputService*)
raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported)

Find where a certain input service is routed to.

Parameters

in	<i>InputService,:</i>	The IPS_Service_t of the source you want to find the destinations for
----	-----------------------	---

Returns

IPS_Serv_Dest_List_t List if [IPS_Serv_Dest_t](#) entries

Exceptions

<i>OperationFailed</i>	In case invalid input references are used.
------------------------	--

Note

- No wildcard support on the input service, you can only find the destinations of one input service.

8.9.4.2 IPS_ServiceIn_List_t DCM::DeviceControl::IPS_InServiceGetL (in IPS_RefTS_t *RefTS*, in ServiceIdList_t *InputSidList*)
raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the list of services on an input TS that are passed to an output or currently present in the incoming transport stream.

Remark that input services which have Service Loss specific settings that are not present in the input transport stream and not passed to any output are NOT returned in this call. Use the call GetServiceLoss-Triggers to retrieve this info for these services.

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the TS.
in	<i>InputSidList</i>	A list of Service ID's to get info about.

Returns

IPS_ServiceIn_List_t List of [IPS_Service_In_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid input references are used (RefTS, InputSidList).

Note

- A value of 0xFFFFFFFF for Ref means get services on all TS's on a physical port.
- An empty InputSidList list returns information about all services.
- SystemName is the SDT name. If the SDT name doesn't exist (or is empty) the UserName field becomes the displayed name.

8.9.4.3 void DCM::DeviceControl::IPS_InServiceSetL (in IPS_Ref_t *RefPhys*, in IPS_ServiceIn_List_t *ServiceDataList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set service details via a list on an input TS.

Parameters

in	<i>RefPhys</i>	BoardNr and PortNr specifying the port of the service.
in	<i>ServiceDataList</i>	A list of IPS_Service_In_t specifying the service to be modified, holding the ServiceInProperty bitmap and UserName for each service.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid input references are used (RefPhys, ServiceDataList).

Note

- UserName field is only valid and changeable when input ServiceName is NULL.

8.9.4.4 void DCM::DeviceControl::IPS_LookupOutService (in IPS_RefTS_t *OutputTS*, in IPS_Service_t *InputService*, out IPS_Service_t *OutputLookedUpService*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets matching output service for an input service and output TS.

Parameters

in	<i>OutputTS</i>	
in	<i>InputService</i>	
out	<i>OutputLookedUpService</i>	

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid input references are used (RefPhys, OutTS, Service).

Returns

OutputService

8.9.4.5 void DCM::DeviceControl::IPS_OutServiceAddL (in IPS_Ref_t RefPhys, in IPS_ServiceDataOut_List_t ServiceDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a list of services to one or more outgoing TS on the same RefPhys.

Parameters

in	<i>RefPhys</i>	BoardNr and PortNr specifying the port to add services.
in	<i>ServiceDataList</i>	Specifies on which ref to add and which service to be added

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	in case of - Invalid references are used (RefPhys,...) - Inconsistency between RefPhys.BoardNr & ServiceDataList[x].RefOut.Phys-Ref.BoardNr. - Inconsistency between RefPhys.PortNr & ServiceDataList[x].RefOut.Phys-Ref.PortNr in case RefPhys.PortNr != 0xFFFF. - Out of range SIDs

Note

- Pre-configuration is possible.
- An OutputSID value will be assigned by the software when the OutputSID value is set to 0xFFFFFFF in the IDL call. If another value is supplied it will be used for the OutputSID unless the value is already in use (no remapping will occur for a conflict).
- SystemName, UserName, OutputUserName are not used in this function and should be NULL.
- FixedRemap and UseOutputUserName are not used in this function and should be NULL.
- The SDT fields (EIT flags, CA, runningstatus) are not used in this function and should be NULL.

8.9.4.6 void DCM::DeviceControl::IPS_OutServiceAddMergeL (in IPS_Service_t OutService, in IPS_Service_List_t ServiceMergeList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Merge list of input services into an output service.

Parameters

in	<i>OutService</i>	The service in which the input services must be merged.
in	<i>ServiceMerge-List</i>	A list of input services to be merged.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case - invalid input references are used (RefPhys, OutService, ServiceMergeList). - already merged in service in ServiceMergeList

Note

already merged in services are not touched

8.9.4.7 void DCM::DeviceControl::IPS_OutServiceAddMergeL_V2 (in IPS_Service_t *SvcOut*, in AltSrcMergedSetting_t *AltSrcMergedSetting*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add merged source settings to an output service.

Parameters

in	<i>SvcOut</i>	The SvcOut on which the settings should be applied
in	<i>AltSrcMerged-Setting</i>	the settings

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case - invalid input references are used (SvcOut) - an AlternateSrcId does not exist - an merged service is added twice to the same alternate source

Note

Existing merged services are untouched

Version

Release 7.1

8.9.4.8 void DCM::DeviceControl::IPS_OutServiceDeleteL (in IPS_Ref_t *RefPhys*, in IPS_Service_List_t *ServiceList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a list of services in one or more TS on the same board.

Parameters

in	<i>RefPhys</i>	A BoardNr, PortNr and Ref specifying the TS.
in	<i>ServiceList</i>	A list of services to delete.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case • Invalid references are used (RefTS, ServiceList). • Inconsistency between RefTS.PhysRef.BoardNr & ServiceList[x].Ref.PhysRef.BoardNr. • Inconsistency between RefTS.PhysRef.PortNr & ServiceList[x].Ref.PhysRef.PortNr in case RefTS.RefPhys.PortNr != 0xFFFF. • Inconsistency between RefTS.Ref & ServiceList[x].Ref.Ref in case RefTS.-RefPhys.Ref != 0xFFFF.

Note

Services are also deleted when OutputTS gets deleted.

8.9.4.9 void DCM::DeviceControl::IPS_OutServiceDelMergeL (in IPS_Service_t *OutService*, in IPS_Service_List_t *ServiceMergeList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

remove list of merged services from an output service.

Parameters

in	<i>OutService</i>	The service from which the merged services must be removed.
in	<i>ServiceMergeList</i>	A list of merged services to be removed.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case • invalid input references are used (RefPhys, OutService, ServiceMergeList). • not found merged in service in ServiceMergeList

Note

an empty ServiceMergeList means delete all merged in services

8.9.4.10 void DCM::DeviceControl::IPS_OutServiceDelMergeL_V2 (in IPS_Service_t *SvcOut*, in AltSrcMergedSetting_t *AltSrcMergedSetting*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

remove list of merged services from output services.

Parameters

in	<i>SvcOut</i>	The SvcOut on which the settings should be applied
in	<i>AltSrcMerged-Setting</i>	the settings that must be deleted

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case - invalid input references are used (RefPhys, OutService, ServiceMergeList). - not found merged in service in ServiceMergeList

Note

- an empty AlternateSourceMergedList for an Output Service means delete all merged services for this Output Service

Version

Release 7.1

8.9.4.11 void DCM::DeviceControl::IPS_OutServiceGetComponentMergeL (in IPS_Service_t *OutService*, out ComponentMergeCriterionList_t *ComponentMergeList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of all merged component tracking criteria from an output service.

Parameters

in	<i>OutService</i>	: The service from which the merged component criteria must be retrieved.
out	<i>Component-MergeList</i>	: A list of retrieved merged services.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid input references are used (RefPhys, OutService).

Version

Release 7.1

8.9.4.12 IPS_ServiceDataOut_List_t DCM::DeviceControl::IPS_OutServiceGetL (in IPS_RefTS_t *RefTS*, in ServiceIdList_t *OutputSidList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of services on an output TS.

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the TS.
in	<i>OutputSidList</i>	A list of Service ID's to get info about.

Returns

IPS_ServiceDataOut_List_t List of IPS_ServiceOut_t entries

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid output references are used (RefTS, OutputSidList).

Note

- A value of 0xFFFFFFFF for Ref means get services on all TS's on a physical port.
- Also for DPI it will be necessary to set/get a separate user name.
- An empty OutputSidList list returns information about all services.
- SystemName will be the displayed name for the input service, the UserName field is not used and will be empty.
- If UseOutputUserName is unchecked, the SystemName will be the output SDT name.
- If UseOutputUserName is checked, OutputUserName will be the output SDT name.
- The SDT flags reflect the input SDT values (if present), and the other fields reflect the current settings.
- The SDT service provider name will be the input name unless UseOutputServiceProviderName is checked.

8.9.4.13 `IPS_ServiceDataOut_List_V2_t DCM::DeviceControl::IPS_OutServiceGetL_V2 ( in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)`

Get the list of services on an output TS.

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the TS.
in	<i>OutputSidList</i>	A list of Service ID's to get info about.

Returns

IPS_ServiceDataOut_List_V2_t List of [IPS_ServiceData_Out_V2_t](#) entries

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid output references are used (RefTS, OutputSidList).

Note

- A value of 0xFFFFFFFF for Ref means get services on all TS's on a physical port.
- Also for DPI it will be necessary to set/get a separate user name.
- An empty OutputSidList list returns information about all services.
- SystemName will be the displayed name for the input service, the UserName field is not used and will be empty.
- If UseOutputUserName is unchecked, the SystemName will be the output SDT name.
- If UseOutputUserName is checked, OutputUserName will be the output SDT name.
- The SDT flags reflect the input SDT values (if present), and the other fields reflect the current settings.
- The SDT service provider name will be the input name unless UseOutputServiceProviderName is checked.

8.9.4.14 `IPS_ServiceDataOut_List_V3_t DCM::DeviceControl::IPS_OutServiceGetL_V3 ( in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of services on an output TS.

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the TS.
in	<i>OutputSidList</i>	A list of Service ID's to get info about.

Returns

IPS_ServiceDataOut_List_V3_t List of [IPS_ServiceData_Out_V3_t](#) entries

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid output references are used (RefTS, OutputSidList).

Note

- A value of 0xFFFFFFFF for Ref means get services on all TS's on a physical port.
- Also for DPI it will be necessary to set/get a separate user name.
- An empty OutputSidList list returns information about all services.
- SystemName will be the displayed name for the input service, the UserName field is not used and will be empty.
- If UseOutputUserName is unchecked, the SystemName will be the output SDT name.
- If UseOutputUserName is checked, OutputUserName will be the output SDT name.
- The SDT flags reflect the input SDT values (if present), and the other fields reflect the current settings.
- The SDT service provider name will be the input name unless UseOutputServiceProviderName is checked.

8.9.4.15 void DCM::DeviceControl::IPS_OutServiceGetMergeL (in IPS_Service_t *OutService*, out IPS_MergedInServiceList_t *ServiceMergeList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

get list of merged services from an output service.

Parameters

in	<i>OutService</i>	The service from which the merged services must be retrieved.
out	<i>ServiceMergeList</i>	A list of retrieved merged services.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid input references are used (RefPhys, OutService).

8.9.4.16 void DCM::DeviceControl::IPS_OutServiceGetMergeL_V2 (in IPS_Service_t *SvcOut*, in AlternateSrcIdList_t *AlternateSrcIdList*, out AltSrcMergedSettingList_t *AltSrcMergedSetting*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

get list of merged services for a specific output service

Parameters

in	<i>SvcOut</i>	The SvcOut on which the settings are
in	<i>AlternateSrcIdList</i>	The IDs of the alternate sources for which settings are requested. If empty, then settings of all services on the TS are returned.
out	<i>AltSrcMergedSetting</i>	the settings

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid input references are used (RefPhys, OutService).

Version

Release 7.1

8.9.4.17 void DCM::DeviceControl::IPS_OutServiceSetComponentMergeL (in IPS_Service_t *OutService*, in ComponentMergeCriteriumList_t *ComponentMergeList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the list of merged component tracking criteria for an output service.

The MergeCriteriumList of the AlternateService/ServiceIn combinations present in the ComponentMergeList will be updated with the new values. All MergeCriteriumLists of AlternateService/ServiceIn combinations not present in the ComponentMergeList stay unaffected

Parameters

in	<i>OutService</i>	: The service in which the input component(s) must be merged.
in	<i>ComponentMergeList</i>	: A list of input service component tracking criteria.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case : • Invalid input references are used (RefPhys, OutService). • Invalid reference (OutService). • Trying to apply the same rule more than once. • trying to set several MergeCriteriumLists for the same AlternateService/-ServiceIn combination

Note

- The MergedComponents entry in the [MergeCriterium_t](#) is ignored in the Set call.
- An empty MergeCriteriumList for a AlternateService/Servicein combination in the Component-MergeList will delete the component merge criteria for the specific ServiceIn.
- An empty ComponentMergeCriteriumList will delete all component merge tracking criteria for all AlternateService/ServiceIn combinations of the OutService.

Version

Release 7.1

8.9.4.18 void DCM::DeviceControl::IPS_OutServiceSetL (in IPS_Ref_t *RefPhys*, in IPS_ServiceDataOut_List_t *ServiceDataList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set service details via a list on an output TS.

Parameters

in	<i>RefPhys</i>	BoardNr and PortNr specifying the port of the service.
in	<i>ServiceData-List</i>	A list of IPS_Service_In_t . They uniquely identify the output service and specify the ServiceOutProperty, FixedRemap, OutputSID and/or -UseOutputUserName, OutputUserName for each service.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid input references are used (RefPhys, ServiceDataList).
<i>LicenseError</i>	in case of • no licenses left • already existing TS with same ONID/TSID has services with license

Note

- Read/ Write fields of ServiceOutProperty can be set via this call.
- Read only fields are ignored.
- OutputUserName change is specified via UseOutputUserName boolean.

- OutputSID change is specified via FixedRemap boolean.
- EIT output flag changes are specified via corresponding enum setting
- EITschOut
- EITpfOut
- CAmodeOut
- RunStatusOut
- ServiceType
- ServiceProviderNameOut change is specified via UseOutputServiceProviderName boolean.

8.9.4.19 void DCM::DeviceControl::IPS_OutServiceSetL_V2 (in IPS_Ref_t *RefPhys*, in IPS_ServiceDataOut_List_V2_t *ServiceDataList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set service details via a list on an output TS.

Parameters

in	<i>RefPhys</i>	BoardNr and PortNr specifying the port of the service.
in	<i>ServiceDataList</i>	A list of IPS_ServiceDataOut_List_V2_t. They uniquely identify the output service and specify the ServiceOutProperty, FixedRemap, OutputSID and/or UseOutputUserName, OutputUserName for each service.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references are used (RefPhys, ServiceDataList).
<i>LicenseError</i>	in case of • no licenses left • already existing TS with same ONID/TSID has services with license

Note

- Read/Write fields of ServiceOutProperty can be set via this call.
- Read only fields are ignored.
- OutputUserName change is specified via UseOutputUserName boolean.
- OutputSID change is specified via FixedRemap boolean.
- EIT output flag changes are specified via corresponding enum setting
- EITschOut
- EITpfOut
- CAmodeOut
- RunStatusOut
- ServiceType
- ServiceProviderNameOut change is specified via UseOutputServiceProviderName boolean.

8.9.4.20 `TC_ServiceData_List_t DCM::DeviceControl::ProcessorServiceAddL ( in unsigned short BoardNr, in IPS_RefSvc_List_t InputRefSvcList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a list of services to a transcoder or MFP board and returns the output service data for those services.

Parameters

in	<i>BoardNr</i>	number of the board on which services are added
in	<i>InputRefSvcList</i>	list of RefSvc of the (IO board) input services

Returns

`TC_ServiceData_List_t` List of [TC_ServiceData_t](#) entries containing info of the passed services. Note: Service names might still be empty.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing
<i>OpNotSucceeded</i>	- invalid references are used - If the limit of 16 services per transcoder board is exceeded - If the limit of 128 services per MFP board is exceeded
<i>OpNotAllowed</i>	not logged in
<i>OpNotSupported</i>	if BoardNr is not the board number of a transcoder or MFP board

Version

Release 9.0

8.9.4.21 `ServiceBlockCAInfo_List_t DCM::DeviceControl::ServiceBlockCAInfoGetL ( in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves for every service in the given list, if the BlockCA option is turned on.

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the TS.
in	<i>OutputSidList</i>	A list of Service ID's to get info about.

Returns

List of `ServiceBlockCAInfo_List_t` entries

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid output references are used (RefTS, OutputSidList).

8.9.4.22 void DCM::DeviceControl::ServiceBlockCAInfoSetL (in IPS_RefTS_t *RefTS*, in ServiceBlockCAInfo_List_t *ServiceBlockCAInfoList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Enables/disables blocking of CA info for a list of services.

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the TS.
in	<i>ServiceBlockCAInfoList</i>	A list of services and the option to set on each service

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid input references are used (RefTS, InputSidList).

8.9.4.23 void DCM::DeviceControl::TC_ServiceAddL (in unsigned short *BoardNr*, in IPS_RefSvc_List_t *InputRefSvcList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a list of services to a transcoder board or MFP board.

Parameters

in	<i>BoardNr</i>	number of the board on which services are added
in	<i>InputRefSvcList</i>	list of RefSvc of the (IO board) input services

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing
<i>OpNotSucceeded</i>	- invalid references are used - If the limit of 16 services per transcoder board is exceeded - If the limit of 128 services per MFP board is exceeded
<i>OpNotAllowed</i>	not logged in
<i>OpNotSupported</i>	if BoardNr is not the board number of a transcoder board

Version

Release 7.5

8.9.4.24 void DCM::DeviceControl::TC_ServiceDeleteL (in unsigned short *BoardNr*, in IPS_RefSvc_List_t *RefSvcList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a list of services on a transcoder board.

The service is only deleted if the service is not passed anymore to an IO board.

Parameters

in	<i>BoardNr</i>	the number of the transcoder board
in	<i>RefSvcList</i>	A list of services to delete.

Exceptions

<i>OpNotSucceeded</i>	In case - Invalid references are used (RefSvcList). - Inconsistency between BoardNr & ServiceList[x].Ref.PhysRef.BoardNr. - At least one of the services is passed to an IO board.
<i>OpNotAllowed</i>	not logged in
<i>OpNotSupported</i>	if BoardNr is not the board number of a transcoder board

Version

Release 7.5

8.9.4.25 TC_ServiceData_List_t DCM::DeviceControl::TC_ServiceGetL (in unsigned short *BoardNr*, in IPS_RefSvc_List_t *RefSvcList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of services on a transcoder board.

Parameters

in	<i>BoardNr</i>	number of the transcoder board
in	<i>RefSvcList</i>	list of RefSvc of the transcoder board services for which to return the service data. For an empty list, data of all services are returned. The first time this function is called, the list should be empty in order to return all services. Afterwards, a list of RefSvc (first parameter of the returned TC_ServiceData_t structures) can be used to pass as second parameter of this function, in order to get the service data of a subset of services.

Returns

TC_ServiceData_List_t List of [TC_ServiceData_t](#) entries

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing
<i>OpNotSucceeded</i>	invalid references are used
<i>OpNotAllowed</i>	not logged in
<i>OpNotSupported</i>	if BoardNr is not the board number of a transcoder board

Version

Release 7.5

8.9.4.26 `TC_ServiceDataV2_List_t DCM::DeviceControl::TC_ServiceGetLV2 ( in unsigned short BoardNr, in IPS_RefSvc_List_t RefSvcList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the list of services on a transcoder board.

Parameters

in	<i>BoardNr</i>	number of the transcoder board
in	<i>RefSvcList</i>	list of RefSvc of the transcoder board services for which to return the service data. For an empty list, data of all services are returned. The first time this function is called, the list should be empty in order to return all services. Afterwards, a list of RefSvc (first parameter of the returned TC_ServiceData_t structures) can be used to pass as second parameter of this function, in order to get the service data of a subset of services.

Returns

`TC_ServiceDataV2_List_t` List of [TC_ServiceData_t](#) entries

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing
<i>OpNotSucceeded</i>	invalid references are used
<i>OpNotAllowed</i>	not logged in
<i>OpNotSupported</i>	if <i>BoardNr</i> is not the board number of a transcoder board
<i>OperationFailed</i>	TODO

Version

Release 11.10

8.9.4.27 `void DCM::DeviceControl::TC_ServiceSetL ( in unsigned short BoardNr, in TC_ServiceData_List_t ServiceDataList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set service details of transcoder board services.

Parameters

in	<i>BoardNr</i>	number of the transcoder board
in	<i>ServiceData-List</i>	list of TC_ServiceData_t specifying the service data details for modification.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing
<i>OpNotSucceeded</i>	invalid references are used or when trying to change User Tag of a PIP service
<i>OpNotAllowed</i>	not logged in

<i>OpNotSupported</i>	if BoardNr is not the board number of a transcoder board
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Version

Release 7.5

8.9.4.28 void DCM::DeviceControl::TC_ServiceSetLV2 (in unsigned short *BoardNr*, in TC_ServiceDataV2_List_t *ServiceDataList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set service details of transcoder board services.

Parameters

in	<i>BoardNr</i>	number of the transcoder board
in	<i>ServiceDataList</i>	list of TC_ServiceData_t specifying the service data details for modification.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing
<i>OpNotSucceeded</i>	invalid references are used or when trying to change User Tag of a PIP service
<i>OpNotAllowed</i>	not logged in
<i>OpNotSupported</i>	if BoardNr is not the board number of a transcoder board
<i>OperationFailed</i>	TODO

Version

Release 7.5

8.9.5 Variable Documentation

8.9.5.1 const ServiceId_t DCM::DeviceControl::ANY_SID = 0xffffffff

Input parameter: Service creation: If you don't want any particular SID.

Definition at line 4714 of file DCM.idl.

8.9.5.2 const unsigned long DCM::DeviceControl::BITMAP_ACTIVE = 0x4

Definition at line 4732 of file DCM.idl.

8.9.5.3 const unsigned long DCM::DeviceControl::BITMAP_INPUT_PRESENT = 0x1

Definition at line 4730 of file DCM.idl.

8.9.5.4 const unsigned long DCM::DeviceControl::BITMAP_INPUT_SIGNAL_PRESENT = 0x80000000

Definition at line 4737 of file DCM.idl.

8.9.5.5 const unsigned long DCM::DeviceControl::BITMAP_MERGED_SERVICE = 0x8

For output services.

Definition at line 4733 of file DCM.idl.

8.9.5.6 const unsigned long DCM::DeviceControl::BITMAP_OUTPUT_SERVICE_ALARM_ACTIVE = 0x40

For output services.

Definition at line 4736 of file DCM.idl.

8.9.5.7 const unsigned long DCM::DeviceControl::BITMAP_SCRAMBLED_BY_DCM = 0x2

Definition at line 4731 of file DCM.idl.

8.9.5.8 const unsigned long DCM::DeviceControl::BITMAP_SCRAMBLED_ON_INPUT = 0x10

Definition at line 4735 of file DCM.idl.

8.9.5.9 const unsigned long DCM::DeviceControl::BITMAP_SERVICE_ALARM_ACTIVE = 0x8

For input services.

Definition at line 4734 of file DCM.idl.

8.9.5.10 const Serviced_t DCM::DeviceControl::INVALID_SID = 0xffffffff

Undefined sid.

Definition at line 4709 of file DCM.idl.

8.10 Pid

This contains types, enums and methods to configure the pid settings of the multiplexer part in the device.

Collaboration diagram for Pid:



Classes

- struct [DCM::DeviceControl::InPID_Data_t](#)
Identification of which PID to be (un)blocked.
- struct [DCM::DeviceControl::ServicePIDStatus_t](#)
Identification of the service(s) to (un)block PIDs in.
- struct [DCM::DeviceControl::ServiceCompSettings_t](#)
- struct [DCM::DeviceControl::ComponentTag_t](#)
- struct [DCM::DeviceControl::ComponentTrackRule_t](#)
- struct [DCM::DeviceControl::ComponentTrackRule_V2_t](#)
- struct [DCM::DeviceControl::DefaultTrackRule_t](#)
Structure for board default component tracking rules.
- struct [DCM::DeviceControl::ES_TypeSetting_t](#)
- struct [DCM::DeviceControl::SvcOutES_TypeSetting_t](#)
- struct [DCM::DeviceControl::ServiceES_t](#)
- struct [DCM::DeviceControl::IPS_LanguageSettings_t](#)
- struct [DCM::DeviceControl::IPS_Out_PIDSettings_t](#)
- struct [DCM::DeviceControl::IPS_Out_ECMSettings_t](#)
- struct [DCM::DeviceControl::IPS_Out_ESSettings_t](#)
- struct [DCM::DeviceControl::IPS_Out_ServiceComponents_t](#)
- struct [DCM::DeviceControl::IPS_Out_ESSettings_V2_t](#)
- struct [DCM::DeviceControl::IPS_Out_ServiceComponents_V2_t](#)
- struct [DCM::DeviceControl::PcrSetting_t](#)
- struct [DCM::DeviceControl::IPS_In_ECMSettings_t](#)
- struct [DCM::DeviceControl::IPS_In_ESSettings_t](#)
- struct [DCM::DeviceControl::IPS_In_ServiceComponents_t](#)
- struct [DCM::DeviceControl::TableGenerationData_t](#)
- struct [DCM::DeviceControl::TableGenerationData_V2_t](#)
- struct [DCM::DeviceControl::SvcOutStreamingSetting_t](#)

Typedefs

- typedef sequence < ServicePIDStatus_t > DCM::DeviceControl::ServicePIDStatus_List_t
A sequence of *ServicePIDStatus_t*.
- typedef sequence < ServiceCompSettings_t > DCM::DeviceControl::ServiceCompSettingsList_t
A sequence of *ServiceCompSettings_t*.
- typedef sequence < ComponentTag_t > DCM::DeviceControl::ComponentTagList_t
A sequence of *ComponentTag_t*.
- typedef sequence < ComponentTrackRule_t > DCM::DeviceControl::ComponentTrackRuleList_t
A sequence of *ComponentTrackRule_t*.
- typedef sequence < ComponentTrackRule_V2_t > DCM::DeviceControl::ComponentTrackRuleList_V2_t
A sequence of *ComponentTrackRule_V2_t*.
- typedef sequence < DefaultTrackRule_t > DCM::DeviceControl::DefaultTrackRuleList_t
A sequence of *DefaultTrackRule_t*.
- typedef sequence < ES_TypeSetting_t > DCM::DeviceControl::ES_TypeSettingList_t
- typedef sequence < SvcOutES_TypeSetting_t > DCM::DeviceControl::SvcOutES_TypeSettingList_t
- typedef sequence < ServiceES_t > DCM::DeviceControl::ServiceES_List_t
A sequence of *ServiceES_t*.
- typedef sequence < IPS_LanguageSettings_t > DCM::DeviceControl::LanguageList_t
A sequence of *IPS_LanguageSettings_t*.
- typedef sequence < IPS_Out_ECMSettings_t > DCM::DeviceControl::IPS_Out_ECMSettingsTree_t
A sequence of *IPS_Out_ECMSettings_t*.
- typedef sequence < IPS_Out_ESSettings_t > DCM::DeviceControl::IPS_Out_ESSettingsTree_t
A sequence of *IPS_Out_ESSettings_t*.
- typedef sequence < IPS_Out_ServiceComponents_t > DCM::DeviceControl::IPS_Out_ServiceComponentsList_t
A sequence of *IPS_Out_ServiceComponents_t*.
- typedef sequence < IPS_Out_ESSettings_V2_t > DCM::DeviceControl::IPS_Out_ESSettingsTree_V2_t
A sequence of *IPS_Out_ESSettings_V2_t*.
- typedef sequence < IPS_Out_ServiceComponents_V2_t > DCM::DeviceControl::IPS_Out_ServiceComponentsList_V2_t
A sequence of *IPS_Out_ServiceComponents_V2_t*.
- typedef sequence < PcrSetting_t > DCM::DeviceControl::PcrSettingList_t
- typedef sequence < IPS_In_ECMSettings_t > DCM::DeviceControl::IPS_In_ECMSettingsTree_t
A sequence of *IPS_In_ECMSettings_t*.
- typedef sequence < IPS_In_ESSettings_t > DCM::DeviceControl::IPS_In_ESSettingsTree_t
A sequence of *IPS_In_ESSettings_t*.
- typedef sequence < IPS_In_ServiceComponents_t > DCM::DeviceControl::IPS_In_ServiceComponentsList_t
A sequence of *IPS_In_ServiceComponents_t*.
- typedef sequence < TableGenerationData_t > DCM::DeviceControl::TableGenerationDataList_t
A sequence of *TableGenerationData_t*.

- typedef sequence < TableGenerationData_V2_t > [DCM::DeviceControl::TableGenerationDataList_V2_t](#)
A sequence of [TableGenerationData_t](#).
- typedef sequence < SvcOutStreamingSetting_t > [DCM::DeviceControl::SvcOutStreamingSettingList_t](#)
A sequence of [SvcStreamingState_t](#).

Enumerations

- enum [DCM::DeviceControl::enuTrackType](#) { [DCM::DeviceControl::eTrackComponentTag](#), [DCM::DeviceControl::eTrackPcr](#), [DCM::DeviceControl::eTrackStreamType](#), [DCM::DeviceControl::eTrackEsPid](#), [DCM::DeviceControl::eTrackEcmPid](#), [DCM::DeviceControl::eTrackEsEcmPid](#) }
What information of a PID we're tracking.
- enum [DCM::DeviceControl::enuRuleSetting](#) { [DCM::DeviceControl::eRuleBlock](#), [DCM::DeviceControl::eRuleForce](#), [DCM::DeviceControl::eRulePass](#) }
What the intention of a rule can be.
- enum [DCM::DeviceControl::enuDefaultRuleSetting](#) { [DCM::DeviceControl::eDefaultRuleBlock](#), [DCM::DeviceControl::eDefaultRuleForce](#), [DCM::DeviceControl::eDefaultRulePass](#) }
What the intention of a rule can be.

Functions

- void [DCM::DeviceControl::SetSvcOutStreaming](#) (in [IPS_RefTS_t](#) RefTs, in [SvcOutStreamingSettingList_t](#) SvcOutStreamingSettingList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set Output Service streaming state.
- [SvcOutStreamingSettingList_t](#) [DCM::DeviceControl::GetSvcOutStreaming](#) (in [IPS_RefTS_t](#) RefTs, in [ServiceIdList_t](#) SidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get Output Service streaming state.
- void [DCM::DeviceControl::SetDefaultSvcOutStreaming](#) (in unsigned short BoardNr, in boolean - StreamingState) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the board default output service streaming state.
- boolean [DCM::DeviceControl::GetDefaultSvcOutStreaming](#) (in unsigned short BoardNr) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get board default output service streaming state.
- [IPS_Out_ServiceComponents_List_t](#) [DCM::DeviceControl::IPS_OutSvcGetPIDsL](#) (in [IPS_RefTS_t](#) RefTS, in [ServiceIdList_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get a list of service components for services on given port and TS.
- [IPS_Out_ServiceComponents_List_V2_t](#) [DCM::DeviceControl::IPS_OutSvcGetPIDsL_V2](#) (in [IPS_RefTS_t](#) RefTS, in [ServiceIdList_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get a list of service components for services on given port and TS.
- [IPS_In_ServiceComponents_List_t](#) [DCM::DeviceControl::IPS_InSvcGetPIDsL](#) (in [IPS_RefTS_t](#) - RefTS, in [ServiceIdList_t](#) InputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get a list of service components for services on given port and TS.

- void [DCM::DeviceControl::IPS_PassBlockPids](#) (in IPS_RefTS_t RefTS, in ServicePIDStatus_List_t ServicePIDStatusList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Block or unblock pids in a list of services on an output TS.

- void [DCM::DeviceControl::SetSI_Generation](#) (in IPS_RefTS_t OutRefTS, in TableGenerationDataList_t TableSettings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Change the automatic regeneration of a certain SI table so that it can be passed transparently or "alternatively" regenerated from a non-default input or from local disk (table imported over ethernet).

- void [DCM::DeviceControl::GetSI_Generation](#) (in IPS_RefTS_t OutRefTS, out TableGenerationDataList_t TableSettings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

(Deprecated) Returns a list of all output table settings.

- void [DCM::DeviceControl::GetSI_Generation_V2](#) (in IPS_RefTS_t OutRefTS, out TableGenerationDataList_V2_t TableSettings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Returns a list of all output table settings.

- void [DCM::DeviceControl::GetDefaultCompTrackRuleL](#) (in unsigned short BoardNr, in LongStream RuleIds, out DefaultTrackRuleList_t theList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a (filtered) set of default component tracking rules for given TS.

- void [DCM::DeviceControl::SetDefaultCompTrackRuleL](#) (in unsigned short BoardNr, in DefaultTrackRuleList_t theList, in LongStream IDsofRulesToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update set of default component tracking rules for given board.

- void [DCM::DeviceControl::IPS_OutGetComponentTrackRuleL](#) (in IPS_RefTS_t OutRefTS, out ComponentTrackRuleList_t theList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current set of component tracking rules for given TS.

- void [DCM::DeviceControl::IPS_OutGetCompTrackRuleL_Filt](#) (in IPS_RefTS_t OutRefTS, in LongStream RuleIds, out ComponentTrackRuleList_t theList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a filtered set of component tracking rules for given TS.

- void [DCM::DeviceControl::IPS_OutSetComponentTrackRuleL](#) (in IPS_RefTS_t OutRefTS, in ComponentTrackRuleList_t theList, in LongStream IDsofRulesToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update set of component tracking rules for given TS.

- void [DCM::DeviceControl::IPS_OutGetComponentTrackRuleL_V2](#) (in IPS_RefTS_t OutRefTS, out ComponentTrackRuleList_V2_t theList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current set of component tracking rules for given TS.

- void [DCM::DeviceControl::IPS_OutGetCompTrackRuleL_Filt_V2](#) (in IPS_RefTS_t OutRefTS, in LongStream RuleIds, out ComponentTrackRuleList_V2_t theList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a filtered set of component tracking rules for given TS.

- void [DCM::DeviceControl::IPS_OutSetComponentTrackRuleL_V2](#) (in IPS_RefTS_t OutRefTS, in ComponentTrackRuleList_V2_t theList, in LongStream IDsofRulesToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update set of component tracking rules for given TS.

- void [DCM::DeviceControl::IPS_ServiceCompSettingsGetL](#) (in IPS_RefTS_t RefTS, out ServiceCompSettingsList_t ServiceCompSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of service component settings for given TS.

- void [DCM::DeviceControl::IPS_OutSvcGetComponentTagL](#) (in IPS_RefTS_t RefTS, out ComponentTagList_t ComponentTagList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of components (pids) and their tag.

- void [DCM::DeviceControl::OutService_AddESFromPidL](#) (in IPS_RefTS_t RefTS, in CompPidESList_t CompPidESList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a list of pid components to output service(s).

- void [DCM::DeviceControl::OutService_DeleteESFromPidL](#) (in IPS_RefTS_t RefTS, in CompPidESList_t CompPidESList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a list of pid components from output service(s).

- void [DCM::DeviceControl::OutService_GetESFromPidL](#) (in IPS_RefTS_t RefTS, out CompPidESList_t CompPidESList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of pid components from output service(s).

- void [DCM::DeviceControl::OutService_AddESFromPidL_V2](#) (in IPS_RefTS_t RefTS, in CompPidESList_V2_t CompPidESList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a list of pid components to output service(s) V2.

- void [DCM::DeviceControl::OutService_DeleteESFromPidL_V2](#) (in IPS_RefTS_t RefTS, in CompPidESList_V2_t CompPidESList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a list of pid components from output service(s) V2.

- void [DCM::DeviceControl::OutService_GetESFromPidL_V2](#) (in IPS_RefTS_t RefTS, out CompPidESList_V2_t CompPidESList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of pid components from output service(s) V2.

- void [DCM::DeviceControl::SetES_TypeRules](#) (in IPS_RefTS_t RefTS, in SvcOutES_TypeSettingList_t SvcOutES_TypeSettingList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the ES type for a number of output PIDs for a number of services.

- SvcOutES_TypeSettingList_t [DCM::DeviceControl::GetES_TypeRules](#) (in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the ES type settings for a list of services.

- void [DCM::DeviceControl::SetPcrPids](#) (in IPS_RefSvc_t ServiceOut, in PcrSettingList_t PcrSettings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the PCR PID for a (virtual) output service.

- PcrSettingList_t [DCM::DeviceControl::GetPcrPids](#) (in IPS_RefSvc_t ServiceOut, in AlternateSrcIdList_t AlternateSrcIdList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the PCR PID settings from a (virtual) output service.

Variables

- const unsigned short [DCM::DeviceControl::INVALID_PID_VALUE](#) = 0xffff

Undefined pid.

- const unsigned short [DCM::DeviceControl::ANY_PID_VALUE](#) = 0xffff

Only for input parameters.

8.10.1 Detailed Description

This contains types, enums and methods to configure the pid settings of the multiplexer part in the device.

8.10.2 Typedef Documentation

8.10.2.1 typedef sequence<ComponentTag_t> DCM::DeviceControl::ComponentTagList_t

A sequence of [ComponentTag_t](#).

Definition at line 5768 of file DCM.idl.

8.10.2.2 typedef sequence<ComponentTrackRule_t> DCM::DeviceControl::ComponentTrackRuleList_t

A sequence of [ComponentTrackRule_t](#).

Definition at line 5805 of file DCM.idl.

8.10.2.3 typedef sequence<ComponentTrackRule_V2_t> DCM::DeviceControl::ComponentTrackRuleList_V2_t

A sequence of [ComponentTrackRule_V2_t](#).

Definition at line 5817 of file DCM.idl.

8.10.2.4 typedef sequence<DefaultTrackRule_t> DCM::DeviceControl::DefaultTrackRuleList_t

A sequence of [DefaultTrackRule_t](#).

Definition at line 5845 of file DCM.idl.

8.10.2.5 typedef sequence<ES_TypeSetting_t> DCM::DeviceControl::ES_TypeSettingList_t

Definition at line 5853 of file DCM.idl.

8.10.2.6 typedef sequence<IPS_In_ECMSettings_t> DCM::DeviceControl::IPS_In_ECMSettingsTree_t

A sequence of [IPS_In_ECMSettings_t](#).

Definition at line 5991 of file DCM.idl.

8.10.2.7 typedef sequence<IPS_In_ESSettings_t> DCM::DeviceControl::IPS_In_ESSettingsTree_t

A sequence of [IPS_In_ESSettings_t](#).

Definition at line 6010 of file DCM.idl.

8.10.2.8 typedef sequence<IPS_In_ServiceComponents_t> DCM::DeviceControl::IPS_In_ServiceComponents_List_t

A sequence of [IPS_In_ServiceComponents_t](#).

Definition at line 6023 of file DCM.idl.

8.10.2.9 `typedef sequence<IPS_Out_ECMSettings_t> DCM::DeviceControl::IPS_Out_ECMSettings-Tree_t`

A sequence of [IPS_Out_ECMSettings_t](#).

Definition at line 5918 of file DCM.idl.

8.10.2.10 `typedef sequence<IPS_Out_ESSettings_t> DCM::DeviceControl::IPS_Out_ESSettingsTree_t`

A sequence of [IPS_Out_ESSettings_t](#).

Definition at line 5930 of file DCM.idl.

8.10.2.11 `typedef sequence<IPS_Out_ESSettings_V2_t> DCM::DeviceControl::IPS_Out_ESSettings-Tree_V2_t`

A sequence of [IPS_Out_ESSettings_V2_t](#).

Definition at line 5959 of file DCM.idl.

8.10.2.12 `typedef sequence<IPS_Out_ServiceComponents_t> DCM::DeviceControl::IPS_Out_ServiceComponents_List_t`

A sequence of [IPS_Out_ServiceComponents_t](#).

Intermediate structure definition for V6.9/V7.0. Will still be changed in V7.1 where output language list will be added.

Definition at line 5945 of file DCM.idl.

8.10.2.13 `typedef sequence<IPS_Out_ServiceComponents_V2_t> DCM::DeviceControl::IPS_Out_ServiceComponents_List_V2_t`

A sequence of [IPS_Out_ServiceComponents_V2_t](#).

Definition at line 5972 of file DCM.idl.

8.10.2.14 `typedef sequence<IPS_LanguageSettings_t> DCM::DeviceControl::LanguageList_t`

A sequence of [IPS_LanguageSettings_t](#).

Definition at line 5881 of file DCM.idl.

8.10.2.15 `typedef sequence<PcrSetting_t> DCM::DeviceControl::PcrSettingList_t`

Definition at line 5982 of file DCM.idl.

8.10.2.16 `typedef sequence<ServiceCompSettings_t> DCM::DeviceControl::ServiceCompSettings-List_t`

A sequence of [ServiceCompSettings_t](#).

Definition at line 5757 of file DCM.idl.

8.10.2.17 `typedef sequence<ServiceES_t> DCM::DeviceControl::ServiceES_List_t`

A sequence of [ServiceES_t](#).

Definition at line 5872 of file DCM.idl.

8.10.2.18 `typedef sequence<ServicePIDStatus_t> DCM::DeviceControl::ServicePIDStatus_List_t`

A sequence of [ServicePIDStatus_t](#).

Definition at line 5738 of file DCM.idl.

8.10.2.19 `typedef sequence< SvcOutES_TypeSetting_t> DCM::DeviceControl::SvcOutES_TypeSettingList_t`

Definition at line 5861 of file DCM.idl.

8.10.2.20 `typedef sequence< SvcOutStreamingSetting_t> DCM::DeviceControl::SvcOutStreamingSettingList_t`

A sequence of [SvcStreamingState_t](#).

Definition at line 6076 of file DCM.idl.

8.10.2.21 `typedef sequence<TableGenerationData_t> DCM::DeviceControl::TableGenerationDataList_t`

A sequence of [TableGenerationData_t](#).

Definition at line 6045 of file DCM.idl.

8.10.2.22 `typedef sequence<TableGenerationData_V2_t> DCM::DeviceControl::TableGenerationDataList_V2_t`

A sequence of [TableGenerationData_t](#).

Definition at line 6067 of file DCM.idl.

8.10.3 Enumeration Type Documentation

8.10.3.1 `enum DCM::DeviceControl::enuDefaultRuleSetting`

What the intention of a rule can be.

Enumerator:

eDefaultRuleBlock

eDefaultRuleForce

eDefaultRulePass

Definition at line 5820 of file DCM.idl.

8.10.3.2 `enum DCM::DeviceControl::enuRuleSetting`

What the intention of a rule can be.

Enumerator:

eRuleBlock

eRuleForce

eRulePass Supported since v5.1.

Definition at line 5782 of file DCM.idl.

8.10.3.3 enum DCM::DeviceControl::enuTrackType

What information of a PID we're tracking.

Enumerator:

eTrackComponentTag

eTrackPcr

eTrackStreamType

eTrackEsPid m_usInputPid <> INVALID_PID_VALUE, m_usInputECM_PID == INVALID_PID_VALUE.

eTrackEcmPid m_usInputECM_PID <> INVALID_PID_VALUE, m_usInputPid == INVALID_PID_VALUE.

eTrackEsEcmPid m_usInputECM_PID <> INVALID_PID_VALUE, m_usInputPid <> INVALID_PID_VALUE.

Definition at line 5771 of file DCM.idl.

8.10.4 Function Documentation

8.10.4.1 void DCM::DeviceControl::GetDefaultCompTrackRuleL (in unsigned short *BoardNr*, in LongStream *RuleIds*, out DefaultTrackRuleList_t *theList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a (filtered) set of default component tracking rules for given TS.

Parameters

in	<i>BoardNr</i>	The slot.
in	<i>RuleIds</i>	The IDs of the rules to get or an empty list for all rules.
out	<i>theList</i>	of current rules.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of invalid reference (OutRefTS).

Remarks

There's no validity check on the filter list, ID's that don't exist will simply not be found.

8.10.4.2 boolean DCM::DeviceControl::GetDefaultSvcOutStreaming (in unsigned short *BoardNr*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get board default output service streaming state.

Parameters

in	<i>BoardNr</i>	The board the default is requested of.
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Returns

boolean The default service streaming state setting.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
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Version

Release 7.0

8.10.4.3 `SvcOutES_TypeSettingList_t DCM::DeviceControl::GetES_TypeRules ( in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the ES type settings for a list of services.

Parameters

in	<i>RefTS</i>	specifies the TS where we want to get the ES type settings from.
in	<i>OutputSidList</i>	: list of output service ids for which the ES type settings should be returned.

Returns

SvcOutES_TypeSettingList_t : List of [SvcOutES_TypeSetting_t](#) entries

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of Invalid references (RefTS)

Version

Release 6.9

8.10.4.4 `PcrSettingList_t DCM::DeviceControl::GetPcrPids ( in IPS_RefSvc_t ServiceOut, in AlternateSrcIdList_t AlternateSrcIdList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the PCR PID settings from a (virtual) output service.

Parameters

in	<i>ServiceOut</i>	Identifies the output service to get the PCR settings from.
in	<i>AlternateSrcIdList</i>	The IDs of the alternate sources for which settings are requested. If empty, then the settings of all alternate services for the output service are returned

Returns

List [PcrSetting_t](#) of entries

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of - Invalid references (IPS_RefSvc_t) - Invalid alternate source id (AlternateSrcIdList_t)

Version

Release 7.5

8.10.4.5 void DCM::DeviceControl::GetSI_Generation (in IPS_RefTS_t *OutRefTS*, out TableGenerationDataList_t *TableSettings*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

(Deprecated) Returns a list of all output table settings.

This list is filtered: It contains only tables which have a mode that is compatible with the old version of the PID status enum. For backwards compatibility only.

Parameters

in	<i>OutRefTS</i>	Slot, Port and Index identifying the output TS
out	<i>TableSettings,:</i>	list of output table settings

Returns

Requested table settings.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of invalid reference (<i>OutRefTS</i>)

Deprecated

8.10.4.6 void DCM::DeviceControl::GetSI_Generation_V2 (in IPS_RefTS_t *OutRefTS*, out TableGenerationDataList_V2_t *TableSettings*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Returns a list of all output table settings.

Parameters

in	<i>OutRefTS</i>	Slot, Port and Index identifying the output TS
out	<i>TableSettings,:</i>	list of output table settings

Returns

Requested table settings.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of invalid reference (OutRefTS)

8.10.4.7 SvcOutStreamingSettingList_t DCM::DeviceControl::GetSvcOutStreaming (in IPS_RefTS_t RefTs, in ServiceIdList_t SidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output Service streaming state.

Parameters

in	<i>RefTs</i>	The Output TS the services are attached to.
in	<i>SidList</i>	List of Services to return the service streaming settings of.

Returns

SvcOutStreamingSettingList_t

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case the • RefTs not valid or does not exist. • no ServiceId's found for in the TS.

Version

Release 7.0

8.10.4.8 IPS_In_ServiceComponents_List_t DCM::DeviceControl::IPS_InSvcGetPIDsL (in IPS_RefTS_t RefTs, in ServiceIdList_t InputSidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of service components for services on given port and TS.

Parameters

in	<i>RefTs,</i>	The port and TS MUST exist and must be for input.
in	<i>InputSidList</i>	List of services for which to return PID info. An Empty list means all services.

Returns

A IPS_In_ServiceComponents_List_t list of [IPS_In_ServiceComponents_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references are used (RefTS, InputSidList).

8.10.4.9 void DCM::DeviceControl::IPS_OutGetComponentTrackRuleL (in IPS_RefTS_t *OutRefTS*, out ComponentTrackRuleList_t *theList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current set of component tracking rules for given TS.

Parameters

in	<i>OutRefTS</i>	The TS.
out	<i>theList</i>	of current rules.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of invalid reference (OutRefTS).

8.10.4.10 void DCM::DeviceControl::IPS_OutGetComponentTrackRuleL_V2 (in IPS_RefTS_t *OutRefTS*, out ComponentTrackRuleList_V2_t *theList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current set of component tracking rules for given TS.

Parameters

in	<i>OutRefTS</i>	The TS.
out	<i>theList</i>	of current rules.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of invalid reference (OutRefTS).

Version

Release 7.3

8.10.4.11 void DCM::DeviceControl::IPS_OutGetCompTrackRuleL_Filt (in IPS_RefTS_t *OutRefTS*, in LongStream *RuleIds*, out ComponentTrackRuleList_t *theList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a filtered set of component tracking rules for given TS.

Parameters

in	<i>OutRefTS</i>	The TS.
in	<i>RuleIds</i>	The IDs of the rules to get or an empty list for all rules.
out	<i>theList</i>	of current rules.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of invalid reference (OutRefTS).

Remarks

There's no validity check on the filter list, ID's that don't exist will simply not be found.

8.10.4.12 void DCM::DeviceControl::IPS_OutGetCompTrackRuleL_Filt_V2 (in IPS_RefTS_t *OutRefTS*, in LongStream *RuleIds*, out ComponentTrackRuleList_V2_t *theList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a filtered set of component tracking rules for given TS.

Parameters

in	<i>OutRefTS</i>	The TS.
in	<i>RuleIds</i>	The IDs of the rules to get or an empty list for all rules.
out	<i>theList</i>	of current rules.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of invalid reference (OutRefTS).

Remarks

There's no validity check on the filter list, ID's that don't exist will simply not be found.

Version

Release 7.3

8.10.4.13 void DCM::DeviceControl::IPS_OutSetComponentTrackRuleL (in IPS_RefTS_t *OutRefTS*, in ComponentTrackRuleList_t *theList*, in LongStream *IDsOfRulesToDelete*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update set of component tracking rules for given TS.

Parameters

in	<i>OutRefTS</i>	The TS.
in	<i>theList</i>	The rules to apply (new rules have ID==0 existing rules don't).
in	<i>IDsOfRulesToDelete</i>	The ID's of the rules to drop.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid reference (OutRefTS). • Inconsistent rules (either in the list supplied or in combination with the current settings of the device). • If ruleID <> 0 but rule does not exist. (modification of existing rule). • New rule for a perfect match (PCR, ES, ECM or ES ECM) that already has a rule. • Service ID to apply rule to not found. • Tracking type, rule setting, pid value out of range. • Streamtype tracking combined with both a language and a descriptor tag. • Trying to apply the same rule twice. • Trying to force two components with the same tracking type to the same output PID. • Trying to force or block the same component twice (PCR, Tag, Streamtype, ES, ECM). • Trying to force AND block the same component. • Trying to force two ES ECM's under the same ES Pid to the same preferred output pid. • Trying to block an ES ECM under an ES PID that is blocked.

8.10.4.14 void DCM::DeviceControl::IPS_OutSetComponentTrackRuleL_V2 (in IPS_RefTS_t *OutRefTS*, in ComponentTrackRuleList_V2_t *theList*, in LongStream *IDsOfRulesToDelete*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update set of component tracking rules for given TS.

Parameters

in	<i>OutRefTS</i>	The TS.
in	<i>theList</i>	The rules to apply (new rules have ID==0 existing rules don't).
in	<i>IDsOfRulesToDelete</i>	The ID's of the rules to drop.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid reference (OutRefTS). • Inconsistent rules (either in the list supplied or in combination with the current settings of the device). • If ruleID <> 0 but rule does not exist. (modification of existing rule). • New rule for a perfect match (PCR, ES, ECM or ES ECM) that already has a rule. • Service ID to apply rule to not found. • Tracking type, rule setting, pid value out of range. • Streamtype tracking combined with both a language and a descriptor tag. • Trying to apply the same rule twice. • Trying to force two components with the same tracking type to the same output PID. • Trying to force or block the same component twice (PCR, Tag, Streamtype, ES, ECM). • Trying to force AND block the same component. • Trying to force two ES ECM's under the same ES Pid to the same preferred output pid. • Trying to block an ES ECM under an ES PID that is blocked.

Version

Release 7.3

8.10.4.15 void DCM::DeviceControl::IPS_OutSvcGetComponentTagL (in IPS_RefTS_t *RefTS*, out ComponentTagList_t *ComponentTagList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of components (pids) and their tag.

Parameters

in	<i>RefTS</i>	The TS.
out	<i>Component-TagList</i>	The list of tags.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of invalid reference (RefTS).

Note

For now, only components having a tag are returned (descriptor Type == LB_STREAM_IDENTIFIER_DESCRIPTOR).

8.10.4.16 `IPS_Out_ServiceComponents_List_t DCM::DeviceControl::IPS_OutSvcGetPIDsL ( in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of service components for services on given port and TS.

Parameters

in	<i>RefTS</i> ,:	The port and TS MUST exist and must be for output.
in	<i>OutputSidList</i>	List of services for which to return PID info. An empty list means all services.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references are used (<i>RefTS</i> , <i>OutputSidList</i>).

8.10.4.17 `IPS_Out_ServiceComponents_List_V2_t DCM::DeviceControl::IPS_OutSvcGetPIDsL_V2 ( in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of service components for services on given port and TS.

Parameters

in	<i>RefTS</i> ,:	The port and TS MUST exist and must be for output.
in	<i>OutputSidList</i>	List of services for which to return PID info. An empty list means all services.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid references are used (<i>RefTS</i> , <i>OutputSidList</i>).

8.10.4.18 `void DCM::DeviceControl::IPS_PassBlockPids ( in IPS_RefTS_t RefTS, in ServicePIDStatus_List_t ServicePIDStatusList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Block or unblock pids in a list of services on an output TS.

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the TS.
in	<i>ServicePID-StatusList</i>	A list of references to specific service PIDs together with pass or block status

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case an invalid TS reference is used, when the new status is not in the range (e-PID_StatusBlockedByUser, ePID_StatusPassed) or when a PID can not be found.

8.10.4.19 void DCM::DeviceControl::IPS_ServiceCompSettingsGetL (in IPS_RefTS_t *RefTS*, out ServiceCompSettingsList_t *ServiceCompSettingsList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of service component settings for given TS.

Parameters

in	<i>RefTS</i>	The TS.
out	<i>ServiceCompSettingsList</i>	The list of current settings.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of invalid reference (RefTS).

8.10.4.20 void DCM::DeviceControl::OutService_AddESFromPidL (in IPS_RefTS_t *RefTS*, in CompPidESList_t *CompPidESList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a list of pid components to output service(s).

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the output TS to add components to.
in	<i>CompPidESList</i>	A list of components to add specifying input BoardNr, PortNr, Ref, PID and output SID and output streamtype.

Exceptions

<i>OpNotSupported</i>	when RefTS BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of - Invalid reference RefTS (BoardNr, PortNr and TS) - Non existing TS or not an output TS - Service(s) in CompPidESList don't exist

8.10.4.21 void DCM::DeviceControl::OutService_AddESFromPidL_V2 (in IPS_RefTS_t *RefTS*, in CompPidESList_V2_t *CompPidESList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a list of pid components to output service(s) V2.

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the output TS to add components to.
in	<i>CompPidESList</i>	A list of components to add specifying input BoardNr, PortNr, Ref, PID and output SID and output streamtype.

Exceptions

<i>OpNotSupported</i>	when RefTS BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid reference RefTS (BoardNr, PortNr and TS) • Non existing TS or not an output TS • Service(s) in CompPidESList don't exist

Version

release 6.9

8.10.4.22 void DCM::DeviceControl::OutService_DeleteESFromPidL (in IPS_RefTS_t *RefTS*, in CompPidESList_t *CompPidESList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a list of pid components from output service(s).

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the output TS to delete components from.
in	<i>CompPidESList</i>	A list of components to delete specifying input BoardNr, PortNr, Ref, PID.

Exceptions

<i>OpNotSupported</i>	when RefTS BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid reference RefTS (BoardNr, PortNr and TS) • Non existing TS or not an output TS • Service(s) in CompPidESList don't exist

Note

CompPidES.streamtype is ignored

8.10.4.23 void DCM::DeviceControl::OutService_DeleteESFromPidL_V2 (in IPS_RefTS_t *RefTS*, in CompPidESList_V2_t *CompPidESList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a list of pid components from output service(s) V2.

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the output TS to delete components from.
in	<i>CompPidESList</i>	A list of components to delete specifying input BoardNr, PortNr, Ref, PID.

Exceptions

<i>OpNotSupported</i>	when RefTS BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid reference RefTS (BoardNr, PortNr and TS) • Non existing TS or not an output TS • Service(s) in CompPidESList don't exist

Note

CompPidES.streamtype is ignored

Version

release 6.9

8.10.4.24 void DCM::DeviceControl::OutService_GetESFromPidL (in IPS_RefTS_t *RefTS*, out CompPidESList_t *CompPidESList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of pid components from output service(s).

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the output TS to get components from.
out	<i>CompPidES-List</i>	

Returns

CompPidESList A list of components on the output TS service(s).

Exceptions

<i>OpNotSupported</i>	when RefTS BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid reference RefTS (BoardNr, PortNr and TS) • Non existing TS or not an output TS

8.10.4.25 void DCM::DeviceControl::OutService_GetESFromPidL_V2 (in IPS_RefTS_t *RefTS*, out CompPidESList_V2_t *CompPidESList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of pid components from output service(s) V2.

Parameters

in	<i>RefTS</i>	A BoardNr, PortNr and Ref specifying the output TS to get components from.
out	<i>CompPidES-List</i>	

Returns

CompPidESList A list of components on the output TS service(s).

Exceptions

<i>OpNotSupported</i>	when RefTS BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Invalid reference RefTS (BoardNr, PortNr and TS) • Non existing TS or not an output TS

Version

release 6.9

8.10.4.26 void DCM::DeviceControl::SetDefaultCompTrackRuleL (in unsigned short *BoardNr*, in DefaultTrackRuleList_t *theList*, in LongStream *IDsOfRulesToDelete*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update set of default component tracking rules for given board.

Parameters

in	<i>BoardNr</i>	The slot.
in	<i>theList</i>	The rules to apply (new rules have ID==0 existing rules don't).
in	<i>IDsOfRulesToDelete</i>	The ID's of the rules to drop.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • Inconsistent rules (either in the list supplied or in combination with the current settings of the device). • If ruleID <> 0 but rule does not exist. (modification of existing rule). • New rule for a perfect match (PCR, ES, ECM or ES ECM) that already has a rule. • Tracking type, rule setting, pid value out of range. • Streamtype tracking combined with both a language and a descriptor tag. • Trying to apply the same rule twice. • Trying to force two components with the same tracking type to the same output PID. • Trying to force or block the same component twice (PCR, Tag, Streamtype, ES, ECM). • Trying to force AND block the same component. • Trying to force two ES ECM's under the same ES Pid to the same preferred output pid. • Trying to block an ES ECM under an ES PID that is blocked.

8.10.4.27 void DCM::DeviceControl::SetDefaultSvcOutStreaming (in unsigned short *BoardNr*, in boolean *StreamingState*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the board default output service streaming state.

Parameters

in	<i>BoardNr</i>	The Output TS the services are attached to.
in	<i>StreamingState</i>	The default service streaming state setting.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
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Version

Release 7.0

8.10.4.28 void DCM::DeviceControl::SetES_TypeRules (in IPS_RefTS_t *RefTS*, in SvcOutES_TypeSettingList_t *SvcOutES_TypeSettingList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the ES type for a number of output PIDs for a number of services.

A list provided for a certain output service, replaces the previous list completely. This means when an empty list is provided for an output service any existing ES type settings for that service will be deleted. Each PID can be included only once per service.

Parameters

in	<i>RefTS</i>	specifies the output TS on which streamtypes will have to be remapped.
in	<i>SvcOutES_TypeSettingList</i>	: List of SvcOutES_TypeSetting_t entries

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of - Invalid references (RefTS) - PID is not unique for a service

Version

Release 6.9

8.10.4.29 void DCM::DeviceControl::SetPcrPids (in [IPS_RefSvc_t](#) *ServiceOut*, in [PcrSettingList_t](#) *PcrSettings*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the PCR PID for a (virtual) output service.

Parameters

in	<i>ServiceOut</i>	Identifies the output service where the PCR should be added.
in	<i>PcrSettings</i>	A sequence of PCR settings for number of alternate sources.

Returns**Exceptions**

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of - Invalid references (IPS_RefSvc_t) - Invalid settings (PcrSettingList_t)

Version

Release 7.5

8.10.4.30 void DCM::DeviceControl::SetSI_Generation (in [IPS_RefTS_t](#) *OutRefTS*, in [TableGenerationDataList_t](#) *TableSettings*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Change the automatic regeneration of a certain SI table so that it can be passed transparently or "alternatively" regenerated from a non-default input or from local disk (table imported over ethernet).

Also the output pid, on which an SI subtable should be played out, can be set.

Parameters

in	<i>OutRefTS</i>	Slot, Port and Index identifying the output TS
in	<i>TableSettings,:</i>	list of output table settings

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	when any of the following conditions occur. • Invalid references (OutRefTS, OutKeys) • One of the parameters is out of range (Outpid, ForcedOutputPid, Generation-Mode). • One of the tables to change can not be found. • Force a generated SI PID to a transparent SI PID • Force a generated SI PID to a ghost PID • Force a generated SI PID to a forced service PID • Force a transparent SI PID to a forced SI PID • Force a transparent SI PID to a transparent SI PID and input pid reference is different from output pid • Force a transparent SI PID to a ghost PID • Force a transparent SI PID to a forced service PID • Release 1.1 only allowed the regenerated mode, playout stopped and transparent mode as table generation modes.
<i>LicenseError</i>	When trying to activate EIT Filtering or Advanced EIT Filtering when insufficient licenses are available.

Note

Input table settings are ignored in release 1.1. Release 2.0 fully supports all features. Transparent is always forced even if the user specifies otherwise. The opposite goes for stopped where the force flag is always assumed to be false.

8.10.4.31 void DCM::DeviceControl::SetSvcOutStreaming (in IPS_RefTS_t *RefTs*, in SvcOutStreamingSettingList_t *SvcOutStreamingSettingList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output Service streaming state.

Parameters

in	<i>RefTs</i>	The Output TS the services are attached to.
in	<i>SvcOut-Streaming-SettingList</i>	List with settings to apply

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • RefTs does not exist. • an empty list is passed. • a ServiceId is not found in the TS. • a RefSvc doesn't match RefTS

Version

Release 7.0

8.10.5 Variable Documentation**8.10.5.1 const unsigned short DCM::DeviceControl::ANY_PID_VALUE = 0xffff**

Only for input parameters.

If you want to specify all pids.

Definition at line 5707 of file DCM.idl.

8.10.5.2 const unsigned short DCM::DeviceControl::INVALID_PID_VALUE = 0xffff

Undefined pid.

Definition at line 5703 of file DCM.idl.

8.11 PortConfig

This contains types, enums and methods to configure the ports of the multiplexer part in the device.

Collaboration diagram for PortConfig:



Classes

- struct `DCM::DeviceControl::AsiFormatData_t`
Structure to set ASI format and output mode.
- struct `DCM::DeviceControl::ASI_MirrorCfg_t`
Structure to define port mirroring for ASI.
- struct `DCM::DeviceControl::IpCfg_t`
- struct `DCM::DeviceControl::VlanPortSet_t`
structure to Create/Get information on Vlan PortSets
- struct `DCM::DeviceControl::ASI_BW_LimitData_t`

Typedefs

- typedef sequence< `AsiFormatData_t` > `DCM::DeviceControl::AsiFormatDataList_t`
A sequence of `AsiFormatData_t`.
- typedef sequence< `ASI_MirrorCfg_t` > `DCM::DeviceControl::ASI_MirrorCfgList_t`
A sequence of `ASI_MirrorCfg_t`.
- typedef sequence< `IpCfg_t` > `DCM::DeviceControl::IpCfgList_t`
- typedef sequence< `VlanPortSet_t` > `DCM::DeviceControl::VlanPortSetList_t`
- typedef sequence < `ASI_BW_LimitData_t` > `DCM::DeviceControl::ASI_BW_LimitDataList_t`

Enumerations

- enum `DCM::DeviceControl::eIPS_PortSelectMode` { `DCM::DeviceControl::IPS_PSM_ManualA`, `-DCM::DeviceControl::IPS_PSM_ManualB`, `DCM::DeviceControl::IPS_PSM_AutoA`, `DCM::DeviceControl::IPS_PSM_AutoB` }
- enum `DCM::DeviceControl::eIPS_PortSelectRevert` { `DCM::DeviceControl::IPS_PSR_Active`, `DCM::DeviceControl::IPS_PSR_Inactive` }
- enum `DCM::DeviceControl::ePortBackupTrigger` { `DCM::DeviceControl::PBT_LinkLoss`, `DCM::DeviceControl::PBT_LinkAndUdpLoss` }
- enum `DCM::DeviceControl::eIPS_AutoNegociation` { `DCM::DeviceControl::IPS_AN_OFF`, `DCM::DeviceControl::IPS_AN_ON` }
- enum `DCM::DeviceControl::eAsiPacketFormat` { `DCM::DeviceControl::eAsiPacketFormat204Bytes`, `DCM::DeviceControl::eAsiPacketFormat188Bytes`, `DCM::DeviceControl::eAsiPacketFormatNone` }

- enum `DCM::DeviceControl::eAsiOutputMode` { `DCM::DeviceControl::eAsiOutputModeByte`, `DCM::DeviceControl::eAsiOutputModePacket`, `DCM::DeviceControl::eAsiOutputModeNone` }
- enum `DCM::DeviceControl::ePortStreamingType` { `DCM::DeviceControl::PortStreamingType_Off`, `DCM::DeviceControl::PortStreamingType_On`, `DCM::DeviceControl::PortStreamingType_Auto` }

Enumeration of port streaming type.

Functions

- void `DCM::DeviceControl::CreateVlanPortSet` (in `VlanPortSet_t` Settings, out `IPS_Ref_t` RefVlanPortSet) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Creates a Vlan Port Set on a GbE board.
- void `DCM::DeviceControl::DeleteVlanPortSet` (in `IPS_Ref_t` RefVlanPortSet) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Delete a Vlan PortSet.
- void `DCM::DeviceControl::GetVlanPortSets` (in `IPS_Ref_t` RefPhysPortSet, out `VlanPortSetList_t` VlanPortSetList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
get all vlan portsets connect to a physical portset.
- void `DCM::DeviceControl::IPS_IP_ParamsSet` (in `IPS_Ref_t` RefPhys, in string IPAddress, in string SubNetMask, in `eIPS_AutoNegociation` AutoNeg) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Sets the IP addresses, network mask and default gateway for a GbE port.
- void `DCM::DeviceControl::IPS_IP_ParamsGet` (in `IPS_Ref_t` RefPhys, out string IPAddress, out string SubNetMask, out `eIPS_AutoNegociation` AutoNeg, out string MacAddress) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Gets the IP address, network mask and default gateway for a Gigabit ethernet output.
- void `DCM::DeviceControl::IPS_SelectModeSet` (in `IPS_Ref_t` RefPhys, in `eIPS_PortSelectMode` Mode, in `eIPS_PortSelectRevert` Revert, in unsigned long RevertDelay) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Activates a certain GigE output port.
- void `DCM::DeviceControl::IPS_SelectModeGet` (in `IPS_Ref_t` RefPhys, out `eIPS_PortSelectMode` Mode, out `eIPS_PortSelectRevert` Revert, out unsigned long RevertDelay) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Gets the active output mode status.
- unsigned long `DCM::DeviceControl::IPS_SelectedPortGet` (in `IPS_Ref_t` RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Gets the selected port based on the SelectMode and the linkstatuses.
- void `DCM::DeviceControl::IPS_SetPortBackupTrigger` (in `IPS_Ref_t` RefPhys, in `ePortBackupTrigger` eTrigger) raises (Timeout, OpNotSucceeded, OpNotSupported)
Set the port backup trigger mode (trigger on link loss only or on link or udp loss)
- void `DCM::DeviceControl::IPS_GetPortBackupTrigger` (in `IPS_Ref_t` RefPhys, out `ePortBackupTrigger` eTrigger) raises (Timeout, OpNotSucceeded, OpNotSupported)
Gets the port backup trigger mode (trigger on link loss only or on link or udp loss)
- void `DCM::DeviceControl::IPS_SetPortMirrorMode` (in `IPS_Ref_t` RefPhys, in boolean EnablePortMirroring) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set port mirroring on GbE ports A GbE portpair can be used in Port Mirroring mode: both main and backup ports are actively streaming and the backup port streams out an exact copy of the active port.
- void `DCM::DeviceControl::IPS_GetPortMirrorMode` (in `IPS_Ref_t` RefPhys, out boolean EnablePortMirroring) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get port mirroring status of GbE ports A GbE portpair can be used in Port Mirroring mode: both main and backup ports are actively streaming and the backup port streams out an exact copy of the active port.

- void [DCM::DeviceControl::SetAsiFormat](#) (in IPS_Ref_t RefPhys, in AsiFormatDataList_t AsiFormatList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the ASI format and output mode of ASI output ports.
- AsiFormatDataList_t [DCM::DeviceControl::GetAsiFormat](#) (in IPS_Ref_t RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the ASI format (input & output ports) and output mode of ASI output ports.
- void [DCM::DeviceControl::ASI_MirrorCfgGetL](#) (in unsigned short BoardNr, out ASI_MirrorCfgList_t MirrorCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the port mirror configuration of the ASI ports.
- void [DCM::DeviceControl::ASI_MirrorCfgSetL](#) (in unsigned short BoardNr, in ASI_MirrorCfgList_t MirrorCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the port mirror configuration of the ASI ports.
- void [DCM::DeviceControl::InPort_ASI_BW_Limit_SetL](#) (in IPS_Ref_t RefPhys, in ASI_BW_LimitDataList_t Settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Enable/disable the ASI bandwidth limiting feature and set its bitrate.
- ASI_BW_LimitDataList_t [DCM::DeviceControl::InPort_ASI_BW_Limit_GetL](#) (in IPS_Ref_t RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the ASI bandwidth limiting data.
- void [DCM::DeviceControl::PortOutputStreamingSet](#) (in IPS_Ref_t RefPhys, in ePortStreamingType PortOutputStreaming) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the port output streaming setting.
- void [DCM::DeviceControl::PortOutputStreamingGet](#) (in IPS_Ref_t RefPhys, out ePortStreamingType PortOutputStreaming, out boolean bStreaming) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the port output streaming setting.
- void [DCM::DeviceControl::SetPortPairMirror](#) (in IPS_Ref_t RefPhys, in IPS_Ref_t MirroredPort) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the given port pair in mirror mode.
- void [DCM::DeviceControl::GetPortPairMirror](#) (in IPS_Ref_t RefPhys, out IPS_Ref_t MirroredPort) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Returns the port pair mirror for the supplied port.

8.11.1 Detailed Description

This contains types, enums and methods to configure the ports of the multiplexer part in the device.

8.11.2 Typedef Documentation

8.11.2.1 typedef sequence<ASI_BW_LimitData_t> DCM::DeviceControl::ASI_BW_LimitDataList_t

Definition at line 6960 of file DCM.idl.

8.11.2.2 typedef sequence<ASI_MirrorCfg_t> DCM::DeviceControl::ASI_MirrorCfgList_t

A sequence of [ASI_MirrorCfg_t](#).

Definition at line 6657 of file DCM.idl.

8.11.2.3 typedef sequence<AsiFormatData_t> DCM::DeviceControl::AsiFormatDataList_t

A sequence of [AsiFormatData_t](#).

Definition at line 6645 of file DCM.idl.

8.11.2.4 typedef sequence<IpCfg_t> DCM::DeviceControl::IpCfgList_t

Definition at line 6671 of file DCM.idl.

8.11.2.5 typedef sequence<VlanPortSet_t> DCM::DeviceControl::VlanPortSetList_t

Definition at line 6723 of file DCM.idl.

8.11.3 Enumeration Type Documentation**8.11.3.1 enum DCM::DeviceControl::eAsiOutputMode****Note**

Output mode can only be set to byte mode when the output bitrate on that ASI port <= 155 Mbps.

Enumerator:

eAsiOutputModeByte

eAsiOutputModePacket

eAsiOutputModeNone Input ports don't support this.

Definition at line 6629 of file DCM.idl.

8.11.3.2 enum DCM::DeviceControl::eAsiPacketFormat**Enumerator:**

eAsiPacketFormat204Bytes

eAsiPacketFormat188Bytes

eAsiPacketFormatNone Unknown or not set.

Definition at line 6618 of file DCM.idl.

8.11.3.3 enum DCM::DeviceControl::eIPS_AutoNegociation**Enumerator:**

IPS_AN_OFF

IPS_AN_ON

Definition at line 6612 of file DCM.idl.

8.11.3.4 enum DCM::DeviceControl::eIPS_PortSelectMode**Enumerator:**

IPS_PSM_ManualA

IPS_PSM_ManualB

IPS_PSM_AutoA

IPS_PSM_AutoB

Definition at line 6592 of file DCM.idl.

8.11.3.5 enum DCM::DeviceControl::eIPS_PortSelectRevert

Enumerator:

IPS_PSR_Active

IPS_PSR_Inactive

Definition at line 6600 of file DCM.idl.

8.11.3.6 enum DCM::DeviceControl::ePortBackupTrigger

Enumerator:

PBT_LinkLoss

PBT_LinkAndUdpLoss

Definition at line 6606 of file DCM.idl.

8.11.3.7 enum DCM::DeviceControl::ePortStreamingType

Enumeration of port streaming type.

Enumerator:

PortStreamingType_Off

PortStreamingType_On

PortStreamingType_Auto

Definition at line 6660 of file DCM.idl.

8.11.4 Function Documentation

8.11.4.1 void DCM::DeviceControl::ASI_MirrorCfgGetL (in unsigned short *BoardNr*, out ASI_MirrorCfgList_t *MirrorCfgList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the port mirror configuration of the ASI ports.

Parameters

in	<i>BoardNr</i>	Specifies the BoardNr
out	<i>MirrorCfgList</i>	List of port mirror configuration

Exceptions

<i>OpNotSupported</i>	When called for non-ASI boards
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Note

- MirrorPortNr is the output port to where the data is mirrored
- MainPortNr is the corresponding source port (input or output)

8.11.4.2 void DCM::DeviceControl::ASI_MirrorCfgSetL (in unsigned short *BoardNr*, in ASI_MirrorCfgList_t *MirrorCfgList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the port mirror configuration of the ASI ports.

Parameters

in	<i>BoardNr</i>	Specifies the BoardNr
in	<i>MirrorCfgList</i>	List of port mirror configuration

Exceptions

<i>OpNotSupported</i>	When called for non-ASI boards
<i>OpNotSucceeded</i>	In case of • Invalid port specified • MirrorPortNr not unique in list

Note

- MirrorPortNr is the output port to where the data is mirrored
- MainPortNr is the corresponding source port (input or output)
- Deleting a mirror occurs when MirrorPortNr == MainPortNr

8.11.4.3 void DCM::DeviceControl::CreateVlanPortSet (in VlanPortSet_t *Settings*, out IPS_Ref_t *RefVlanPortSet*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Creates a Vlan Port Set on a GbE board.

When creating a VlanPortSet, RefVlanPortSet is ignored. The created vlan will have the same number of ports as the underlying portset, so the length of ItfAddresses must match. This means two vlan ports are created: the main one with the same [IPS_Ref_t](#) as the port set, and a backup one with a port number one higher.

Parameters

in	<i>Settings</i>	Parameters for the Vlan PortSet to create
out	<i>RefVlanPortSet</i>	Handle to the created portset.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, ASI,...).
<i>OpNotSucceeded</i>	In case • RefPhysPortSet is not a physical port set • Invalid VLAN id • VLAN id already in use • Too many VLANs (current limit: 240 vlan ports = 120 vlan portsets) • bad ip address/subnet (see IPS_IP_ParamsSet)

8.11.4.4 void DCM::DeviceControl::DeleteVlanPortSet (in IPS_Ref_t RefVlanPortSet) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a Vlan PortSet.

Parameters

in	RefVlanPortSet	Handle to the Vlan PortSet to destroy. No wildcard allowed
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Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, ASI,...).
<i>OpNotSucceeded</i>	In case • RefVlanPortSet is not a Vlan Port Set • bCanBeDeleted is false (vlan port set is still in use in a way that inhibits deletion, for now: IGMP join is defined on it)

8.11.4.5 AsiFormatDataList_t DCM::DeviceControl::GetAsiFormat (in IPS_Ref_t RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the ASI format (input & output ports) and output mode of ASI output ports.

Parameters

in	RefPhys	Specifies the BoardNr & PortNr
----	---------	--------------------------------

Returns

AsiFormatDataList_t list of asi data.

Exceptions

<i>OpNotSupported</i>	When called for other boards than ASI ones (Main, GbE,...).
<i>OpNotSucceeded</i>	In case invalid references (RefPhys) are used.

Note

Format can be asked for one specific or all ASI ports (input as well as output), this by setting the PortNr to 0xFFFF.

8.11.4.6 void DCM::DeviceControl::GetPortPairMirror (in IPS_Ref_t *RefPhys*, out IPS_Ref_t *MirroredPort*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Returns the port pair mirror for the supplied port.

Parameters

in	<i>RefPhys</i>	Contains board and port number, port number should be either 0 or 2 (port numbers 0 and 1 refer to the 1st port pair, 2 and 3 to the 2nd port pair).
out	<i>MirroredPort</i>	Contains the current setting, when different from RefPhys, port pair RefPhys is mirroring MirroredPort otherwise no port pair mirroring is active.

Exceptions

<i>OpNotSupported</i>	when board nbr does not match a Gbe IO board.
<i>OpNotSucceed</i>	when supplied port number is invalid.

Version

Release 6.5

8.11.4.7 void DCM::DeviceControl::GetVlanPortSets (in IPS_Ref_t *RefPhysPortSet*, out VlanPortSetList_t *VlanPortSetList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

get all vlan portsets connect to a physical portset.

wildcard allowed for portnr.

Parameters

in	<i>RefPhysPortSet</i>	The physical portset. Wildcard allowed for portnr.
out	<i>VlanPortSetList</i>	The list of Vlan PortSets attached to the specified physial portset/board

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, ASI,...).
<i>OpNotSucceeded</i>	In case RefPhysPortSet is not a Physical Port Set

8.11.4.8 ASI_BW_LimitDataList_t DCM::DeviceControl::InPort_ASI_BW_Limit_GetL (in IPS_Ref_t *RefPhys*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the ASI bandwidth limiting data.

Parameters

in	<i>RefPhys</i>	Specifies the BoardNr & PortNr
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Returns

AsiFormatDataList_t list of asi data.

Exceptions

<i>OpNotSupported</i>	When called for other boards than ASI ones (Main, GbE,...).
<i>OpNotSucceeded</i>	In case invalid references (RefPhys) are used.

Note

Data can be asked for one specific port by specifying the proper PortNr or for all input ASI ports by setting the PortNr to 0xFFFF.

8.11.4.9 void DCM::DeviceControl::InPort_ASI_BW_Limit_SetL (in IPS_Ref_t *RefPhys*, in ASI_BW_LimitDataList_t *Settings*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Enable/disable the ASI bandwidth limiting feature and set its bitrate.

Parameters

in	<i>RefPhys</i>	specifies the BoardNr & PortNr.
in	<i>Settings</i>	List of ports with their according ASI Bandwidth limiting settings.

Exceptions

<i>OpNotSupported</i>	When called for other boards than ASI ones (Main, GbE,...).
<i>OpNotSucceeded</i>	In case of - Invalid references (RefPhys, Location). - BitRate out of range. - Inconsistency between RefPhys.BoardNr & Settings[x].Location.BoardNr. - Inconsistency between RefPhys.PortNr & Settings[x].Location.PortNr in case RefPhys.PortNr != 0xFFFF. - When set on a output ASI port.

8.11.4.10 void DCM::DeviceControl::IPS_GetPortBackupTrigger (in IPS_Ref_t *RefPhys*, out ePortBackupTrigger *eTrigger*) raises (TimeOut, OpNotSucceeded, OpNotSupported)

Gets the port backup trigger mode (trigger on link loss only or on link or udp loss)

Parameters

in	<i>RefPhys</i>	Specifies BoardNr & PortNr
out	<i>eTrigger</i>	

Returns

ePortBackupTrigger

Exceptions

<i>OpNotSucceeded</i>	In case of invalid references (RefPhys)
<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, ASI, ...) if the GbE board is in individual port (2I2O) mode.

Returns

Trigger mode (eTrigger)

8.11.4.11 void DCM::DeviceControl::IPS_GetPortMirrorMode (in IPS_Ref_t *RefPhys*, out boolean *EnablePortMirroring*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get port mirroring status of GbE ports A GbE portpair can be used in Port Mirroring mode: both main and backup ports are actively streaming and the backup port streams out an exact copy of the active port.

Parameters

in	<i>RefPhys</i>	Identifies the (main) port. No wildcards allowed.
out	<i>EnablePortMirroring</i>	Is true in case PortMirroring is enabled. Default is false.

Exceptions

<i>OpNotSupported</i>	When the board is not a GbE board, IP Video Adapter board or IP Audio Gateway board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist (or is a backup port). • GbE board is configured in individual port mode (2I2O).

8.11.4.12 void DCM::DeviceControl::IPS_IP_ParamsGet (in IPS_Ref_t *RefPhys*, out string *IPAddress*, out string *SubNetMask*, out eIPS_AutoNegociation *AutoNeg*, out string *MacAddress*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the IP address, network mask and default gateway for a Gigabit ethernet output.

A virtual port is possible.

Parameters

in	<i>RefPhys</i>	Specifies the Port to get the IP params from. A virtual port is possible.
out	<i>IPAddress</i>	
out	<i>SubNetMask</i>	
out	<i>AutoNeg</i>	This value is undefined for a virtual port.
out	<i>MacAddress</i>	This value is undefined for a virtual port.

Returns

IPAddress Ip address of the port.

SubNetMask SubNetMask of the port.

AutoNeg Auto negotiation of the port.

MacAddress MAC address of the port.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, ASI,...).
<i>OpNotSucceeded</i>	In case invalid references are used (RefPhys).

8.11.4.13 void DCM::DeviceControl::IPS_IP_ParamsSet (in IPS_Ref_t *RefPhys*, in string *IPAddress*, in string *SubNetMask*, in eIPS_AutoNegociation *AutoNeg*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the IP addresses, network mask and default gateway for a GbE port.

Parameters

in	<i>RefPhys</i>	Specifies the Port to set the IP params. A virtual port is possible.
in	<i>IPAddress</i>	Ip address of the port.
in	<i>SubNetMask</i>	SubNetMask of the port.
in	<i>AutoNeg</i>	Auto negotiation value of the port. Changing this value is undefined for a virtual port.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, ASI,...).
<i>OpNotSucceeded</i>	In case - Invalid references are used (RefPhys) - Invalid enum values (AutoNeg) - Invalid netmask (should be, binary, all ones followed by all zeros) - IPAddress is in class D or class E subnet - IPAddress is in 127.x.y.z or 0.x.y.z subnet - IPAddress is already in use on the board (the same subnet is allowed though)

8.11.4.14 unsigned long DCM::DeviceControl::IPS_SelectedPortGet (in IPS_Ref_t *RefPhys*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the selected port based on the SelectMode and the linkstatuses.

Parameters

in	<i>RefPhys</i>	Specifies BoardNr & PortNr
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Returns

Selected Port Resulting port number will be 1 or 2 for respective GbE1 Main, GbE2 Backup or GbE3 Main, GbE4 backup.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, ASI,...).
<i>OpNotSucceeded</i>	In case - invalid references are used (RefPhys). - GbE board configured in individual port mode (2I2O).

8.11.4.15 void DCM::DeviceControl::IPS_SelectModeGet (in IPS_Ref_t *RefPhys*, out eIPS_PortSelectMode *Mode*, out eIPS_PortSelectRevert *Revert*, out unsigned long *RevertDelay*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the active output mode status.

Parameters

in	<i>RefPhys</i>	Specifies BoardNr & PortNr to get information from
out	<i>Mode</i>	
out	<i>Revert</i>	
out	<i>RevertDelay</i>	

Returns

Mode see IPS_SelectModeSet
 Revert see IPS_SelectModeSet
 RevertDelay see IPS_SelectModeSet

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, ASI,...).
<i>OpNotSucceeded</i>	In case - invalid references are used (RefPhys). - GbE board configured in individual port mode (2I2O).

8.11.4.16 void DCM::DeviceControl::IPS_SelectModeSet (in IPS_Ref_t *RefPhys*, in eIPS_PortSelectMode *Mode*, in eIPS_PortSelectRevert *Revert*, in unsigned long *RevertDelay*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Activates a certain GigE output port.

Parameters

in	<i>RefPhys</i>	Specifies BoardNr & PortNr.
in	<i>Mode</i>	Manually, automatically,...
in	<i>Revert</i>	If the port selection switches back to previous when a fail occurred.
in	<i>RevertDelay</i>	After which time it should revert, in seconds, 0..60.

Exceptions

<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, ASI,...).
<i>OpNotSucceeded</i>	In case of - Invalid references (RefPhys) - Invalid enum values (Mode, Revert) - Out of range values (RevertDelay) - GbE board configured in individual port mode (2I2O)

Note

- It's possible to manually activate a port or let the device decide in automatic mode.
- If mode is manual, the given output port will be used as default.

8.11.4.17 void DCM::DeviceControl::IPS_SetPortBackupTrigger (in IPS_Ref_t *RefPhys*, in ePortBackupTrigger *eTrigger*) raises (TimeOut, OpNotSucceeded, OpNotSupported)

Set the port backup trigger mode (trigger on link loss only or on link or udp loss)

Parameters

in	<i>RefPhys</i>	Specifies BoardNr & PortNr
in	<i>eTrigger</i>	Trigger mode

Exceptions

<i>OpNotSucceeded</i>	In case of invalid references (RefPhys)
<i>OpNotSucceeded</i>	In case of invalid Trigger mode.
<i>OpNotSupported</i>	When called for other boards than GbE ones (Main, ASI, ...) or if the GbE board is in individual port (2I2O) mode.

8.11.4.18 void DCM::DeviceControl::IPS_SetPortMirrorMode (in IPS_Ref_t *RefPhys*, in boolean *EnablePortMirroring*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set port mirroring on GbE ports A GbE portpair can be used in Port Mirroring mode: both main and backup ports are actively streaming and the backup port streams out an exact copy of the active port.

Parameters

in	<i>RefPhys</i>	Identifies the (main) port. No wildcards allowed.
in	<i>EnablePort-Mirroring</i>	Is true in case PortMirroring is enabled. Default is false.

Exceptions

<i>OpNotSupported</i>	When the board is not a GbE board, IP Video Adapter board or IP Audio Gateway board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist (or is a backup port). • GbE board is configured in individual port mode (2I2O).

8.11.4.19 void DCM::DeviceControl::PortOutputStreamingGet (in IPS_Ref_t *RefPhys*, out ePortStreamingType *PortOutputStreaming*, out boolean *bStreaming*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the port output streaming setting.

Parameters

in	<i>RefPhys</i>	specifies the port-pair
out	<i>PortOutput-Streaming</i>	port streaming setting
out	<i>bStreaming</i>	actual port streaming state

Exceptions

<i>OpNotSupported</i>	when called for boards other than ASI, IP Audio Gateway or IP Video Gateway.
<i>OpNotSucceeded</i>	in case of • invalid port specified • invalid port streaming setting

8.11.4.20 void DCM::DeviceControl::PortOutputStreamingSet (in IPS_Ref_t *RefPhys*, in ePortStreamingType *PortOutputStreaming*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the port output streaming setting.

Parameters

in	<i>RefPhys</i>	specifies the port-pair
in	<i>PortOutput-Streaming</i>	port streaming setting

Exceptions

<i>OpNotSupported</i>	when called for boards other than ASI, IP Audio Gateway or IP Video Gateway.
<i>OpNotSucceeded</i>	in case of • invalid port specified • invalid port streaming setting

8.11.4.21 void DCM::DeviceControl::SetAsiFormat (in IPS_Ref_t *RefPhys*, in AsiFormatDataList_t *AsiFormatList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the ASI format and output mode of ASI output ports.

Parameters

in	<i>RefPhys</i>	specifies the BoardNr & PortNr.
in	<i>AsiFormatList</i>	List of ports with their according ASI format.

Exceptions

<i>OpNotSupported</i>	When called for other boards than ASI ones (Main, GbE,...).
<i>OpNotSucceeded</i>	In case of - Invalid references (RefPhys, Location). - Invalid enum values (PacketFormat, OutputMode). - Inconsistency between RefPhys.BoardNr & AsiFormatList[x].Location.-BoardNr. - Inconsistency between RefPhys.PortNr & AsiFormatList[x].Location.PortNr in case RefPhys.PortNr != 0xFFFF. - When set on a input ASI port.

8.11.4.22 void DCM::DeviceControl::SetPortPairMirror (in IPS_Ref_t *RefPhys*, in IPS_Ref_t *MirroredPort*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the given port pair in mirror mode.

Parameters

in	<i>RefPhys</i>	Contains board and port number, port number should be either 0 or 2 (port numbers 0 and 1 refer to the 1st port pair, 2 and 3 to the 2nd port pair)
in	<i>MirroredPort</i>	When different from RefPhys, RefPhys will be mirroring MirroredPort, otherwise mirroring is disabled. Port number should be either 0 or 2.

Exceptions

<i>OpNotSupported</i>	when called for non-GBE boards
<i>OpNotSucceed</i>	- when trying to activate port pair mirroring and the other pair is already mirroring. - when supplied port number is invalid. - when RefPhys and MirroredPort are not on the same IO board.

Version

Release 6.5

8.12 8-VSB

This contains types, enums and methods to configure 8VSB ports.

Collaboration diagram for 8-VSB:



Classes

- struct [DCM::DeviceControl::InPort_8VSB_TuningParams_t](#)
Tuning parameters for an 8VSB input port.
- struct [DCM::DeviceControl::InPort_8VSB_Config_t](#)
Represents the 8VSB input port specific settings.
- struct [DCM::DeviceControl::InPort_8VSB_Statistics_t](#)
Defines the statistics that can be retrieved per 8VSB input port.

Typedefs

- typedef sequence < [InPort_8VSB_TuningParams_t](#) > [DCM::DeviceControl::InPort_8VSB_TuningParams_List_t](#)
A sequence of [InPort_8VSB_TuningParams_t](#).
- typedef sequence < [InPort_8VSB_Config_t](#) > [DCM::DeviceControl::InPort_8VSB_Config_List_t](#)
A sequence of [InPort_8VSB_Config_t](#).
- typedef sequence < [InPort_8VSB_Statistics_t](#) > [DCM::DeviceControl::InPort_8VSB_Statistics_List_t](#)
A sequence of [InPort_8VSB_Statistics_t](#).

Functions

- void [DCM::DeviceControl::InPort_8VSB_TuningParams_SetL](#) (in [IPS_Ref_t](#) RefPhys, in [InPort_8VSB_TuningParams_List_t](#) Settings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Sets the tuning parameters for the input ports of a board.
- void [DCM::DeviceControl::InPort_8VSB_TuningParams_GetL](#) (in [IPS_Ref_t](#) RefPhys, out [InPort_8VSB_TuningParams_List_t](#) Settings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the tuning parameters of the given input port(s).
- void [DCM::DeviceControl::InPort_8VSB_Config_SetL](#) (in [IPS_Ref_t](#) RefPhys, in [InPort_8VSB_Config_List_t](#) Settings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets 8VSB specific configuration of one or more 8VSB input ports.

- void [DCM::DeviceControl::InPort_8VSB_Config_GetL](#) (in [IPS_Ref_t](#) RefPhys, out [InPort_8VSB_Config_List_t](#) Settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the 8VSB specific configuration of one or more 8VSB input ports.

- void [DCM::DeviceControl::InPort_8VSB_Statistics_GetL](#) (in [IPS_Ref_t](#) RefPhys, out [InPort_8VSB_Statistics_List_t](#) Statistics) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the statistics for one or more 8VSB input ports.

- void [DCM::DeviceControl::InPort_8VSB_Statistics_ResetL](#) (in [IPS_Ref_t](#) RefPhys, in [PortList_t](#) - Ports) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Resets the 8VSB statistics for the given 8VSB input port.

8.12.1 Detailed Description

This contains types, enums and methods to configure 8VSB ports.

8.12.2 Typedef Documentation

8.12.2.1 typedef sequence<[InPort_8VSB_Config_t](#)> [DCM::DeviceControl::InPort_8VSB_Config_List_t](#)

A sequence of [InPort_8VSB_Config_t](#).

Definition at line 7107 of file DCM.idl.

8.12.2.2 typedef sequence<[InPort_8VSB_Statistics_t](#)> [DCM::DeviceControl::InPort_8VSB_Statistics_List_t](#)

A sequence of [InPort_8VSB_Statistics_t](#).

Definition at line 7128 of file DCM.idl.

8.12.2.3 typedef sequence<[InPort_8VSB_TuningParams_t](#)> [DCM::DeviceControl::InPort_8VSB_TuningParams_List_t](#)

A sequence of [InPort_8VSB_TuningParams_t](#).

Definition at line 7090 of file DCM.idl.

8.12.3 Function Documentation

8.12.3.1 void [DCM::DeviceControl::InPort_8VSB_Config_GetL](#) (in [IPS_Ref_t](#) *RefPhys*, out [InPort_8VSB_Config_List_t](#) *Settings*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the 8VSB specific configuration of one or more 8VSB input ports.

Parameters

in	<i>RefPhys</i>	Specifies the BoardNr & PortNr
out	<i>Settings</i>	List of BW limit configuration data.

Exceptions

<i>OpNotSupported</i>	When called for boards not containing 8VSB input ports (Main, GbE,...).
<i>OpNotSucceeded</i>	In case invalid references (RefPhys) are used.

Note

Data can be asked for one specific port by specifying the proper PortNr or for all input 8VSB input ports by setting the PortNr to 0xFFFF. In the latter case the returned list will only contain 8VSB input ports, e.g. if input ports of different types are present on the board.

Version

Release 8.1

8.12.3.2 void DCM::DeviceControl::InPort_8VSB_Config_SetL (in IPS_Ref_t *RefPhys*, in InPort_8VSB_Config_List_t *Settings*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets 8VSB specific configuration of one or more 8VSB input ports.

Parameters

in	<i>RefPhys</i>	Boardnr and PortNr. PortNr can be 0xFFFF if more than one port is configured.
in	<i>Settings</i>	A list containing the configuration of the 8VSB port(s).

Exceptions

<i>OpNotSupported</i>	When called for a board not containing 8VSB input ports, such as main board, GbE board or ASI board.
<i>OpNotSucceeded</i>	In case of • invalid references (RefPhys, Settings[x].InputPortRef) • Inconsistency between RefPhys.BoardNr and Settings[x].Location.BoardNr. • Inconsistency between RefPhys.PortNr and Settings[x].Location.PortNr if - RefPhys.PortNr != 0xFFFF. • When set on an output port. • When set on an input port which is not an 8VSB input port.

Version

Release 8.1

8.12.3.3 void DCM::DeviceControl::InPort_8VSB_Statistics_GetL (in IPS_Ref_t *RefPhys*, out InPort_8VSB_Statistics_List_t *Statistics*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the statistics for one or more 8VSB input ports.

Parameters

in	<i>RefPhys</i>	BoardNr and PortNr. PortNr can be 0xFFFF if more than one port is configured.
out	<i>Statistics</i>	List of statistics per 8VSB input port.

Exceptions

<i>OpNotSupported</i>	When called for boards not containing any 8VSB input ports.
<i>OpNotSucceeded</i>	In case of invalid reference (RefPhys).

Note

Data can be asked for one specific port by specifying the proper PortNr or for all input 8VSB input ports by setting the PortNr to 0xFFFF. In the latter case the returned list will only contain 8VSB input ports, e.g. if input ports of different types are present on the board.

Version

Release 8.1

8.12.3.4 void DCM::DeviceControl::InPort_8VSB_Statistics_ResetL (in IPS_Ref_t *RefPhys*, in PortList_t *Ports*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Resets the 8VSB statistics for the given 8VSB input port.

Parameters

in	<i>RefPhys</i>	Reference of the 8VSB board (PortNr is ignored)
in	<i>Ports</i>	A sequence of ports for which to reset the statistics. If an empty list is provided, the statistics of all 8VSB input ports on the board will be reset.

Exceptions

<i>OpNotSupported</i>	When called for boards not containing 8VSB ports.
<i>OpNotSucceeded</i>	In case • an invalid RefPhys is provided. • an invalid port number is provided in the Ports list. • one of the ports in the Ports list is not an 8VSB input port.

Version

Release 8.1

8.12.3.5 void DCM::DeviceControl::InPort_8VSB_TuningParams_GetL (in IPS_Ref_t *RefPhys*, out InPort_8VSB_TuningParams_List_t *Settings*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the tuning parameters of the given input port(s).

Both channel number and frequency will be filled in in the returned structures, as well as an indication of

the lock status and the (RF) input level. If the channel was selected using the frequency a negative value will be filled in as channel number in the returned settings.

Parameters

in	<i>RefPhys</i>	Specifies the BoardNr & PortNr. If PortNr is 0xFFFF the tuning parameters of all input ports supporting tuning are retrieved.
out	<i>Settings</i>	list of input port tuning parameters.

Exceptions

<i>OpNotSupported</i>	When called for boards not containing 8VSB ports (Main, GbE...).
<i>OpNotSucceeded</i>	In case invalid references (RefPhys) are used.

Note

Data can be asked for one specific port by specifying the proper PortNr or for all input ports by setting the PortNr to 0xFFFF.

Version

Release 8.1

8.12.3.6 void DCM::DeviceControl::InPort_8VSB_TuningParams_SetL (in IPS_Ref_t *RefPhys*, in InPort_8VSB_TuningParams_List_t *Settings*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the tuning parameters for the input ports of a board.

Parameters

in	<i>RefPhys</i>	RefPhys specifies the BoardNr and PortNr. PortNr can be 0xFFFF if more than one port is configured.
in	<i>Settings</i>	A list of input ports with their corresponding tuning parameters.

Exceptions

<i>OpNotSupported</i>	When called for a board not containing 8VSB ports, such as main, GBE, ASI.
<i>OpNotSucceeded</i>	In case of • invalid references (RefPhys, Location) • Tuning parameters out of range • Inconsistency between RefPhys.BoardNr and Settings[x].InputPortRef.-BoardNr. • Inconsistency between RefPhys.PortNr and Settings[x].InputPortRef.PortNr if RefPhys.PortNr!=0xFFFF. • When applied to an output port.

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8.13 DVB-S2

This contains types, enums and methods to configure DVB-S2 ports.

Collaboration diagram for DVB-S2:



Classes

- struct [DCM::DeviceControl::InPort_DvbS2_PortConfig_t](#)
Structure used to configure single stream or multi-stream mode per port.
- struct [DCM::DeviceControl::InPort_DvbS2_TunerCfg_t](#)
Structure used to configure the DVB S2 tuner.
- struct [DCM::DeviceControl::InPort_DvbS2_LncCfg_t](#)
Structure used to configure the DVB S2 LNC.
- struct [DCM::DeviceControl::InPort_DvbS2_Status_t](#)
Structure used to retrieve status information of a DVB S2 port.
- struct [DCM::DeviceControl::InPort_DvbS2_Counters_t](#)
Structure containing the different counters per DVB S2 port.
- struct [DCM::DeviceControl::DvbS2_LookupTS_t](#)
Structure to find a specific TS by port and input stream identifier.
- struct [DCM::DeviceControl::DvbS2_RefTS_t](#)
Structure containing the looked-up transport stream for a given lookupTS.
- struct [DCM::DeviceControl::DvbS2_InputTS_t](#)
DvbS2 information of an incoming DVB-S2 input stream.
- struct [DCM::DeviceControl::Debug_DvbS2_InputTS_t](#)
Information about a DVBS2 input TS, including the hardware index.

Typedefs

- typedef sequence < [InPort_DvbS2_PortConfig_t](#) > [DCM::DeviceControl::InPort_DvbS2_PortConfig_List_t](#)
A sequence of [InPort_DvbS2_PortConfig_t](#).
- typedef sequence < [InPort_DvbS2_TunerCfg_t](#) > [DCM::DeviceControl::InPort_DvbS2_TunerCfg_List_t](#)
A sequence of [InPort_DvbS2_TunerCfg_t](#).
- typedef sequence < [InPort_DvbS2_LncCfg_t](#) > [DCM::DeviceControl::InPort_DvbS2_LncCfg_List_t](#)
- typedef sequence < [InPort_DvbS2_Status_t](#) > [DCM::DeviceControl::InPort_DvbS2_Status_List_t](#)

- typedef sequence < InPort_DvbS2_Counters_t > DCM::DeviceControl::InPort_DvbS2_Counters_List_t
- typedef unsigned short DCM::DeviceControl::DvbS2_Isi_t
DVB-S2 input stream identifier type.
- typedef sequence< DvbS2_Isi_t > DCM::DeviceControl::DvbS2_Isi_list_t
A sequence of DVB-S2 input stream identifiers.
- typedef sequence < DvbS2_LookupTS_t > DCM::DeviceControl::DvbS2_LookupTS_List_t
A sequence of DvbS2_LookupTS_t.
- typedef sequence< DvbS2_RefTS_t > DCM::DeviceControl::DvbS2_RefTS_List_t
A sequence of DvbS2_RefTS_t.
- typedef sequence< DvbS2_InputTS_t > DCM::DeviceControl::DvbS2_InputTS_list_t
A sequence of DvbS2_InputTS_t.
- typedef sequence < Debug_DvbS2_InputTS_t > DCM::DeviceControl::Debug_DvbS2_InputTS_List_t
A sequence of Debug_DvbS2_InputTS_t.

Enumerations

- enum DCM::DeviceControl::eDvbS2_Mode_t { DCM::DeviceControl::eDvbS2_Mode_S, DCM::DeviceControl::eDvbS2_Mode_S2, DCM::DeviceControl::eDvbS2_Mode_Auto, DCM::DeviceControl::eDvbS2_Mode_Reserved1, DCM::DeviceControl::eDvbS2_Mode_Reserved2, DCM::DeviceControl::eDvbS2_Mode_Reserved3 }
- enum DCM::DeviceControl::eDvbS2_Polarization_t { DCM::DeviceControl::eDvbS2_Polarization_Horizontal, DCM::DeviceControl::eDvbS2_Polarization_Vertical, DCM::DeviceControl::eDvbS2_Polarization_Reserved1, DCM::DeviceControl::eDvbS2_Polarization_Reserved2, DCM::DeviceControl::eDvbS2_Polarization_Reserved3 }
- enum DCM::DeviceControl::eDvbS2_Constellation_t { DCM::DeviceControl::eDvbS2_Constellation_QPSK, DCM::DeviceControl::eDvbS2_Constellation_8PSK, DCM::DeviceControl::eDvbS2_Constellation_16APSK, DCM::DeviceControl::eDvbS2_Constellation_32APSK, DCM::DeviceControl::eDvbS2_Constellation_Reserved1, DCM::DeviceControl::eDvbS2_Constellation_Reserved2, DCM::DeviceControl::eDvbS2_Constellation_Reserved3, DCM::DeviceControl::eDvbS2_Constellation_Reserved4, DCM::DeviceControl::eDvbS2_Constellation_Reserved5 }
- enum DCM::DeviceControl::eDvbS2_LNC_Band_t { DCM::DeviceControl::eDvbS2_LNC_Band_Low, DCM::DeviceControl::eDvbS2_LNC_Band_High, DCM::DeviceControl::eDvbS2_LNC_Band_Reserved1, DCM::DeviceControl::eDvbS2_LNC_Band_Reserved2, DCM::DeviceControl::eDvbS2_LNC_Band_Reserved3 }
- enum DCM::DeviceControl::eDvbS2_SpectrumInversion_t { DCM::DeviceControl::eDvbS2_SpectrumInversion_On, DCM::DeviceControl::eDvbS2_SpectrumInversion_Off, DCM::DeviceControl::eDvbS2_SpectrumInversion_Reserved1, DCM::DeviceControl::eDvbS2_SpectrumInversion_Reserved2, DCM::DeviceControl::eDvbS2_SpectrumInversion_Reserved3 }
- enum DCM::DeviceControl::eDvbS2_FEC_CodeRate_t { DCM::DeviceControl::eDvbS2_FEC_CodeRate_1_4, DCM::DeviceControl::eDvbS2_FEC_CodeRate_1_3, DCM::DeviceControl::eDvbS2_FEC_CodeRate_2_5, DCM::DeviceControl::eDvbS2_FEC_CodeRate_1_2, DCM::DeviceControl::eDvbS2_FEC_CodeRate_3_5, DCM::DeviceControl::eDvbS2_FEC_CodeRate_2_3, DCM::DeviceControl::eDvbS2_FEC_CodeRate_3_4, DCM::DeviceControl::eDvbS2_FEC_CodeRate_4_5, DCM::DeviceControl::eDvbS2_FEC_CodeRate_5_6, DCM::DeviceControl::eDvbS2_FEC_CodeRate_7_8, DCM::DeviceControl::eDvbS2_FEC_CodeRate_8_9, DCM::DeviceControl::eDvbS2_FEC_CodeRate_9_10, DCM::DeviceControl::eDvbS2_FEC_CodeRate_Reserved1, DCM::DeviceControl::eDvbS2_FEC_CodeRate_Reserved2, DCM::DeviceControl::eDvbS2_FEC_CodeRate_Reserved3 }

- enum `DCM::DeviceControl::eDvbS2_BandSelection_t` { `DCM::DeviceControl::eDvbS2_BandSelection_Auto`, `DCM::DeviceControl::eDvbS2_BandSelection_ForcedLow`, `DCM::DeviceControl::eDvbS2_BandSelection_ForcedHigh`, `DCM::DeviceControl::eDvbS2_BandSelection_Reserved1`, `DCM::DeviceControl::eDvbS2_BandSelection_Reserved2`, `DCM::DeviceControl::eDvbS2_BandSelection_Reserved3` }
- enum `DCM::DeviceControl::eDvbS2_LncType_t` { `DCM::DeviceControl::eDvbS2_LncType_SingleBand`, `DCM::DeviceControl::eDvbS2_LncType_DualBand`, `DCM::DeviceControl::eDvbS2_LncType_Reserved1`, `DCM::DeviceControl::eDvbS2_LncType_Reserved2`, `DCM::DeviceControl::eDvbS2_LncType_Reserved3` }
- enum `DCM::DeviceControl::eDvbS2_RxMode_t` { `DCM::DeviceControl::eDvbS2_RxMode_SingleStream`, `DCM::DeviceControl::eDvbS2_RxMode_MultiStream`, `DCM::DeviceControl::eDvbS2_RxMode_Reserved1`, `DCM::DeviceControl::eDvbS2_RxMode_Reserved2`, `DCM::DeviceControl::eDvbS2_RxMode_Reserved3` }
- enum `DCM::DeviceControl::eDvbS2_MA_Type_t` { `DCM::DeviceControl::eDvbS2_MA_Type_CCM`, `DCM::DeviceControl::eDvbS2_MA_Type_VCM`, `DCM::DeviceControl::eDvbS2_MA_Type_ACM`, `DCM::DeviceControl::eDvbS2_MA_Type_Reserved1`, `DCM::DeviceControl::eDvbS2_MA_Type_Reserved2`, `DCM::DeviceControl::eDvbS2_MA_Type_Reserved3` }

The coding and modulation type.

Functions

- void `DCM::DeviceControl::InPort_DvbS2_RxModeSetL` (in unsigned short BoardNr, in `InPort_DvbS2_PortConfig_List_t` ConfigList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded, LicenseError)
Configures the reception mode on one or more DVB S2 ports.
- void `DCM::DeviceControl::InPort_DvbS2_RxModeGetL` (in `IPS_Ref_t` RefPhys, out `InPort_DvbS2_PortConfig_List_t` ConfigList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)
Retrieves the reception mode of one or all DVB S2 ports.
- void `DCM::DeviceControl::InPort_DvbS2_TunerCfgSetL` (in unsigned short BoardNr, in `InPort_DvbS2_TunerCfg_List_t` Settings) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)
Configure tuner parameters for one or more DVB S2 ports.
- void `DCM::DeviceControl::InPort_DvbS2_TunerCfgGetL` (in `IPS_Ref_t` RefPhys, out `InPort_DvbS2_TunerCfg_List_t` Settings) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)
Retrieve the tuner parameters for one or all DVB S2 ports.
- void `DCM::DeviceControl::InPort_DvbS2_LncCfgSetL` (in unsigned short BoardNr, in `InPort_DvbS2_LncCfg_List_t` Settings) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)
Configure LNC parameters for one or more DVB S2 ports.
- void `DCM::DeviceControl::InPort_DvbS2_LncCfgGetL` (in `IPS_Ref_t` RefPhys, out `InPort_DvbS2_LncCfg_List_t` Settings) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)
Retrieve the LNC parameters for one or all DVB S2 ports.
- void `DCM::DeviceControl::InPort_DvbS2_StatusGetL` (in `IPS_Ref_t` RefPhys, out `InPort_DvbS2_Status_List_t` StatusList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)
Retrieve the status of one or all DVB S2 ports.
- void `DCM::DeviceControl::InPort_DvbS2_CountersGetL` (in `IPS_Ref_t` RefPhys, out `InPort_DvbS2_Counters_List_t` CounterList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Retrieve the counters of one or all DVB S2 ports.

- void [DCM::DeviceControl::InPort_DvbS2_CountersResetL](#) (in unsigned short BoardNr, in PortList_t Ports) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Reset the counters of one or more DVB S2 ports.

- DvbS2_RefTS_List_t [DCM::DeviceControl::DvbS2_LookupTSs](#) (in unsigned short BoardNumber, in DvbS2_LookupTS_List_t LookupList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the transport stream references for a number of transport streams with given input stream identifier.

- DvbS2_RefTS_List_t [DCM::DeviceControl::DvbS2_FindTSs](#) (in unsigned short BoardNumber, in DvbS2_LookupTS_List_t LookupList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the TS reference for a number of transport streams with given input stream identifier.

- void [DCM::DeviceControl::DvbS2_IsiGetL](#) (in IPS_Ref_t RefPhys, out boolean bIsMultiStream, out DvbS2_Isi_list_t IsiList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the list of all detected input stream identifiers on the given DVB-S2 port.

- DvbS2_InputTS_list_t [DCM::DeviceControl::DvbS2_InTS_GetL](#) (in IPS_Ref_t PhysRef, in Ref_List_t RefList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the list of DVB-S2 input streams.

- Debug_DvbS2_InputTS_List_t [DCM::DeviceControl::DebugDvbS2StreamInGetL](#) (in IPS_Ref_t - PhysRef, in Ref_List_t RefList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get a list of DVBS2 information of incoming transport streams, including the hardware index.

Variables

- const unsigned short [DCM::DeviceControl::INVALID_ISI](#) = 0xffff
ISI value assigned to single stream (e.g. port in single stream mode).

8.13.1 Detailed Description

This contains types, enums and methods to configure DVB-S2 ports.

8.13.2 Typedef Documentation

8.13.2.1 typedef sequence<Debug_DvbS2_InputTS_t> DCM::DeviceControl::Debug_DvbS2_InputTS_List_t

A sequence of [Debug_DvbS2_InputTS_t](#).

Definition at line 7771 of file DCM.idl.

8.13.2.2 typedef sequence<DvbS2_InputTS_t> DCM::DeviceControl::DvbS2_InputTS_list_t

A sequence of [DvbS2_InputTS_t](#).

Definition at line 7741 of file DCM.idl.

8.13.2.3 typedef sequence<DvbS2_Isi_t> DCM::DeviceControl::DvbS2_Isi_list_t

A sequence of DVB-S2 input stream identifiers.

Definition at line 7645 of file DCM.idl.

8.13.2.4 typedef unsigned short DCM::DeviceControl::DvbS2_Isi_t

DVB-S2 input stream identifier type.

Definition at line 7642 of file DCM.idl.

8.13.2.5 typedef sequence<DvbS2_LookupTS_t> DCM::DeviceControl::DvbS2_LookupTS_List_t

A sequence of [DvbS2_LookupTS_t](#).

Definition at line 7655 of file DCM.idl.

8.13.2.6 typedef sequence<DvbS2_RefTS_t> DCM::DeviceControl::DvbS2_RefTS_List_t

A sequence of [DvbS2_RefTS_t](#).

Definition at line 7666 of file DCM.idl.

8.13.2.7 typedef sequence<InPort_DvbS2_Counters_t> DCM::DeviceControl::InPort_DvbS2_Counters_List_t

Definition at line 7599 of file DCM.idl.

8.13.2.8 typedef sequence<InPort_DvbS2_LncCfg_t> DCM::DeviceControl::InPort_DvbS2_LncCfg_List_t

Definition at line 7492 of file DCM.idl.

8.13.2.9 typedef sequence<InPort_DvbS2_PortConfig_t> DCM::DeviceControl::InPort_DvbS2_PortConfig_List_t

A sequence of [InPort_DvbS2_PortConfig_t](#).

Definition at line 7391 of file DCM.idl.

8.13.2.10 typedef sequence<InPort_DvbS2_Status_t> DCM::DeviceControl::InPort_DvbS2_Status_List_t

Definition at line 7568 of file DCM.idl.

8.13.2.11 typedef sequence<InPort_DvbS2_TunerCfg_t> DCM::DeviceControl::InPort_DvbS2_TunerCfg_List_t

A sequence of [InPort_DvbS2_TunerCfg_t](#).

Definition at line 7445 of file DCM.idl.

8.13.3 Enumeration Type Documentation**8.13.3.1 enum DCM::DeviceControl::eDvbS2_BandSelection_t**

Enumerator:

eDvbS2_BandSelection_Auto default
eDvbS2_BandSelection_ForcedLow
eDvbS2_BandSelection_ForcedHigh
eDvbS2_BandSelection_Reserved1
eDvbS2_BandSelection_Reserved2

eDvbS2_BandSelection_Reserved3

Definition at line 7344 of file DCM.idl.

8.13.3.2 enum DCM::DeviceControl::eDvbS2_Constellation_t

Enumerator:

eDvbS2_Constellation_QPSK
eDvbS2_Constellation_8PSK
eDvbS2_Constellation_16APSK
eDvbS2_Constellation_32APSK
eDvbS2_Constellation_Reserved1
eDvbS2_Constellation_Reserved2
eDvbS2_Constellation_Reserved3
eDvbS2_Constellation_Reserved4
eDvbS2_Constellation_Reserved5

Definition at line 7294 of file DCM.idl.

8.13.3.3 enum DCM::DeviceControl::eDvbS2_FEC_CodeRate_t

Enumerator:

eDvbS2_FEC_CodeRate_1_4 1/4
eDvbS2_FEC_CodeRate_1_3 1/3
eDvbS2_FEC_CodeRate_2_5 2/5
eDvbS2_FEC_CodeRate_1_2 1/2
eDvbS2_FEC_CodeRate_3_5 3/5
eDvbS2_FEC_CodeRate_2_3 2/3
eDvbS2_FEC_CodeRate_3_4 3/4
eDvbS2_FEC_CodeRate_4_5 4/5
eDvbS2_FEC_CodeRate_5_6 5/6
eDvbS2_FEC_CodeRate_7_8 7/8
eDvbS2_FEC_CodeRate_8_9 8/9
eDvbS2_FEC_CodeRate_9_10 9/10
eDvbS2_FEC_CodeRate_Reserved1
eDvbS2_FEC_CodeRate_Reserved2
eDvbS2_FEC_CodeRate_Reserved3

Definition at line 7325 of file DCM.idl.

8.13.3.4 enum DCM::DeviceControl::eDvbS2_LNC_Band_t

Enumerator:

eDvbS2_LNC_Band_Low
eDvbS2_LNC_Band_High
eDvbS2_LNC_Band_Reserved1
eDvbS2_LNC_Band_Reserved2
eDvbS2_LNC_Band_Reserved3

Definition at line 7307 of file DCM.idl.

8.13.3.5 enum DCM::DeviceControl::eDvbS2_LncType_t

Enumerator:

eDvbS2_LncType_SingleBand default
eDvbS2_LncType_DualBand
eDvbS2_LncType_Reserved1
eDvbS2_LncType_Reserved2
eDvbS2_LncType_Reserved3

Definition at line 7354 of file DCM.idl.

8.13.3.6 enum DCM::DeviceControl::eDvbS2_MA_Type_t

The coding and modulation type.

Enumerator:

eDvbS2_MA_Type_CCM Constant Coding and Modulation.
eDvbS2_MA_Type_VCM Variable Coding and Modulation.
eDvbS2_MA_Type_ACM Adaptive Coding and Modulation.
eDvbS2_MA_Type_Reserved1
eDvbS2_MA_Type_Reserved2
eDvbS2_MA_Type_Reserved3

Definition at line 7373 of file DCM.idl.

8.13.3.7 enum DCM::DeviceControl::eDvbS2_Mode_t

Enumerator:

eDvbS2_Mode_S
eDvbS2_Mode_S2
eDvbS2_Mode_Auto default
eDvbS2_Mode_Reserved1
eDvbS2_Mode_Reserved2
eDvbS2_Mode_Reserved3

Definition at line 7275 of file DCM.idl.

8.13.3.8 enum DCM::DeviceControl::eDvbS2_Polarization_t

Enumerator:

eDvbS2_Polarization_Horizontal default
eDvbS2_Polarization_Vertical
eDvbS2_Polarization_Reserved1
eDvbS2_Polarization_Reserved2
eDvbS2_Polarization_Reserved3

Definition at line 7285 of file DCM.idl.

8.13.3.9 enum DCM::DeviceControl::eDvbS2_RxMode_t

Enumerator:

eDvbS2_RxMode_SingleStream single stream reception only (default)
eDvbS2_RxMode_MultiStream single or multi-stream reception
eDvbS2_RxMode_Reserved1
eDvbS2_RxMode_Reserved2
eDvbS2_RxMode_Reserved3

Definition at line 7363 of file DCM.idl.

8.13.3.10 enum DCM::DeviceControl::eDvbS2_SpectrumInversion_t

Enumerator:

eDvbS2_SpectrumInversion_On
eDvbS2_SpectrumInversion_Off
eDvbS2_SpectrumInversion_Reserved1
eDvbS2_SpectrumInversion_Reserved2
eDvbS2_SpectrumInversion_Reserved3

Definition at line 7316 of file DCM.idl.

8.13.4 Function Documentation

8.13.4.1 Debug_DvbS2_InputTS_List_t DCM::DeviceControl::DebugDvbS2StreamInGetL (in IPS_Ref_t PhysRef, in Ref_List_t RefList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get a list of DVBS2 information of incoming transport streams, including the hardware index.

Parameters

in	<i>PhysRef</i>	The BoardNr and PortNr of which you want the information.
in	<i>RefList</i>	A Ref_List_t, sequence of Ref's (longs) you want info about.

Returns

A sequence of [Debug_DvbS2_InputTS_t](#) entries.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OperationFailed</i>	In case invalid references(PhysRef, RefList) are used.

Note

- A value of 0xFFFF for port means all ports.
- An empty RefList means all refs.
- A non-empty RefList is only allowed for a specific PhysRef (not if PhysRef has wildcard).

Version

Release 9.10

8.13.4.2 DvbS2_RefTS_List_t DCM::DeviceControl::DvbS2_FindTSs (in unsigned short *BoardNumber*, in DvbS2_LookupTS_List_t *LookupList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the TS reference for a number of transport streams with given input stream identifier.

NO automatic creation will be done in any case.

Parameters

in	<i>BoardNumber</i>	An unsigned short to indicate the slot.
in	<i>LookupList</i>	A sequence of board/port/ISI

Returns

A DvbS2_RefTS_List_t, a sequence of [DvbS2_RefTS_t](#) entries with corresponding TS reference.

Exceptions

<i>Timeout</i>	A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	When board doesn't support this operation.
<i>OpNotSucceeded</i>	- When BoardNumber or LookupList is invalid.

Version

Release 9.0

8.13.4.3 DvbS2_InputTS_list_t DCM::DeviceControl::DvbS2_InTS_GetL (in IPS_Ref_t *PhysRef*, in Ref_List_t *RefList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the list of DVB-S2 input streams.

Parameters

in	<i>PhysRef</i>	Identifies the port. Wildcard allowed for PortNr.
in	<i>RefList</i>	Filter result with list of given TS ids. Empty list to get all.

Returns

Sequence of [DvbS2_InputTS_t](#), mapping the input stream reference to ISI.

Exceptions

<i>Timeout</i>	A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	board does not support this operation.
<i>OpNotSucceeded</i>	if invalid references are used.

Version

Release 9.0

8.13.4.4 void DCM::DeviceControl::DvbS2_IsiGetL (in IPS_Ref_t *RefPhys*, out boolean *bIsMultiStream*, out DvbS2_Isi_list_t *IsiList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the list of all detected input stream identifiers on the given DVB-S2 port.

Parameters

in	<i>RefPhys</i>	identification of the DVB-S2 port.
out	<i>bIsMultiStream</i>	True if multistream is detected. If false <i>IsiList</i> is empty.
out	<i>IsiList</i>	list of detected input stream identifiers. This list contains all ISI's that are detected at the input (can be more than 6).

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	board does not support this operation.
<i>OpNotSucceeded</i>	- invalid port reference

Version

Release 9.10

8.13.4.5 DvbS2_RefTS_List_t DCM::DeviceControl::DvbS2_LookupTSs (in unsigned short *BoardNumber*, in DvbS2_LookupTS_List_t *LookupList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the transport stream references for a number of transport streams with given input stream identifier.

If an input TS is looked up, this one will automatically be created when not found. The number of transport streams that can be created automatically is limited by the number of ISI's that can be supported on a DVB-S2 port (currently 6).

Parameters

in	<i>BoardNumber</i>	An unsigned short to indicate the slot.
in	<i>LookupList</i>	A sequence of board/port/ISI for which TS Index is to be returned.

Returns

A DvbS2_RefTS_List_t, a sequence of [DvbS2_RefTS_t](#) entries with corresponding TS reference.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	When board doesn't support this operation.

<i>OpNotSucceeded</i>	when BoardNumber or Ref is invalid. • When too many TS are looked up for a single DVB-S2 port. • When duplicate ISI's are looked up for a single DVB-S2 port.
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Version

Release 9.0

8.13.4.6 void DCM::DeviceControl::InPort_DvbS2_CountersGetL (in IPS_Ref_t *RefPhys*, out InPort_DvbS2_Counters_List_t *CounterList*) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Retrieve the counters of one or all DVB S2 ports.

Parameters

in	<i>RefPhys</i>	identifies the port. If PortNr is 0xFFFF status parameters of all ports are returned.
out	<i>CounterList</i>	list of counters per port.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	when called on non-DVB S2 board.
<i>OpNotSucceeded</i>	invalid RefPhys.

Version

Release 9.10

8.13.4.7 void DCM::DeviceControl::InPort_DvbS2_CountersResetL (in unsigned short *BoardNr*, in PortList_t *Ports*) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Reset the counters of one or more DVB S2 ports.

Parameters

in	<i>BoardNr</i>	identifies the board.
in	<i>Ports</i>	list of input ports. Empty list to reset all ports.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	when called on non-DVB S2 board.
<i>OpNotSucceeded</i>	when invalid reference is used.

Version

Release 9.10

8.13.4.8 void DCM::DeviceControl::InPort_DvbS2_LncCfgGetL (in IPS_Ref_t *RefPhys*, out InPort_DvbS2_LncCfg_List_t *Settings*) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Retrieve the LNC parameters for one or all DVB S2 ports.

Parameters

in	<i>RefPhys</i>	identifies the port. Wildcard allowed for PortNr.
out	<i>Settings</i>	list of input port tuning parameters.

Exceptions

<i>Timeout</i>	A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	when called on non-DVB S2 board.
<i>OpNotSucceeded</i>	when invalid reference is used.

Version

Release 9.0

8.13.4.9 void DCM::DeviceControl::InPort_DvbS2_LncCfgSetL (in unsigned short *BoardNr*, in InPort_DvbS2_LncCfg_List_t *Settings*) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Configure LNC parameters for one or more DVB S2 ports.

Remark: LNC Bias can only be enabled on the first two DVB S2 ports (first front end).

Parameters

in	<i>BoardNr</i>	Identifies the board.
in	<i>Settings</i>	List of configuration data.

Exceptions

<i>Timeout</i>	A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	when called on non-DVB S2 board.
<i>OpNotSucceeded</i>	in case of invalid input parameters, references... if LNC bias is enabled on invalid ports.

Version

Release 9.0

8.13.4.10 void DCM::DeviceControl::InPort_DvbS2_RxModeGetL (in IPS_Ref_t *RefPhys*,
out InPort_DvbS2_PortConfig_List_t *ConfigList*) raises (Timeout, OpNotAllowed,
OpNotSupported, OpNotSucceeded)

Retrieves the reception mode of one or all DVB S2 ports.

Parameters

in	<i>RefPhys</i>	identifies the port (wildcard is allowed for PortNr).
out	<i>ConfigList</i>	list of configuration data.

Exceptions

<i>Timeout</i>	A timeout occurred during IIOP processing.
<i>OpNotSucceeded</i>	invalid references are used.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	if board does not support this function.

Version

Release 9.0

8.13.4.11 void DCM::DeviceControl::InPort_DvbS2_RxModeSetL (in unsigned short *BoardNr*,
in InPort_DvbS2_PortConfig_List_t *ConfigList*) raises (Timeout, OpNotAllowed,
OpNotSupported, OpNotSucceeded, LicenseError)

Configures the reception mode on one or more DVB S2 ports.

Parameters

in	<i>BoardNr</i>	identifies the board.
in	<i>ConfigList</i>	contains the configuration per port.

Exceptions

<i>Timeout</i>	A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	if board does not support this function.
<i>OpNotSucceeded</i>	invalid references are used.
<i>LicenseError</i>	required multistream license is not available.

Version

Release 9.0

8.13.4.12 void DCM::DeviceControl::InPort_DvbS2_StatusGetL (in IPS_Ref_t *RefPhys*, out InPort_DvbS2_Status_List_t *StatusList*) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Retrieve the status of one or all DVB S2 ports.

Parameters

in	<i>RefPhys</i>	identifies the port. Wildcard allowed for PortNr.
out	<i>StatusList</i>	list of input port tuning parameters.

Exceptions

<i>Timeout</i>	A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	when called on non-DVB S2 board.
<i>OpNotSucceeded</i>	when invalid reference is used.

Version

Release 9.0

8.13.4.13 void DCM::DeviceControl::InPort_DvbS2_TunerCfgGetL (in IPS_Ref_t *RefPhys*, out InPort_DvbS2_TunerCfg_List_t *Settings*) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Retrieve the tuner parameters for one or all DVB S2 ports.

Parameters

in	<i>RefPhys</i>	identifies the port. Wildcard allowed for PortNr.
out	<i>Settings</i>	list of input port tuning parameters.

Exceptions

<i>Timeout</i>	A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	when called on non-DVB S2 board.
<i>OpNotSucceeded</i>	when invalid reference is used.

Version

Release 9.0

8.13.4.14 void DCM::DeviceControl::InPort_DvbS2_TunerCfgSetL (in unsigned short *BoardNr*, in InPort_DvbS2_TunerCfg_List_t *Settings*) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Configure tuner parameters for one or more DVB S2 ports.

Parameters

in	<i>BoardNr</i>	Identifies the board.
in	<i>Settings</i>	List of configuration data.

Exceptions

<i>TimeOut</i>	A timeout occurred during IIOP processing.
<i>OpNotAllowed</i>	not logged in.
<i>OpNotSupported</i>	when called on non-DVB S2 board.
<i>OpNotSucceeded</i>	in case of invalid input parameters, references...

Version

Release 9.0

8.13.5 Variable Documentation**8.13.5.1 const unsigned short DCM::DeviceControl::INVALID_ISI = 0xffff**

ISI value assigned to single stream (e.g. port in single stream mode).

Definition at line 7639 of file DCM.idl.

8.14 Descriptors

This contains types, enums and methods to configure descriptors settings of the multiplexer part in the device.

Collaboration diagram for Descriptors:



Classes

- struct [DCM::DeviceControl::TableKeysExt_t](#)
- struct [DCM::DeviceControl::DescriptorData_t](#)
- struct [DCM::DeviceControl::DescriptorRule_t](#)
- struct [DCM::DeviceControl::DescriptorRuleSet_t](#)
- struct [DCM::DeviceControl::MergedESDescriptorData_t](#)

Modules

- [Compact CA Descriptor settings](#)

This contains types, enums and methods to configure the handling of compact CA descriptors.

Typedefs

- typedef sequence< TableKeysExt_t > [DCM::DeviceControl::TableKeysExtList_t](#)
- typedef sequence< DescriptorData_t > [DCM::DeviceControl::DescriptorDataList_t](#)
- typedef sequence< DescriptorRule_t > [DCM::DeviceControl::DescriptorRuleList_t](#)
- typedef sequence< DescriptorRuleSet_t > [DCM::DeviceControl::DescriptorRuleSetList_t](#)
- typedef sequence< MergedESDescriptorData_t > [DCM::DeviceControl::MergedESDescriptorDataList_t](#)

Enumerations

- enum [DCM::DeviceControl::eDescriptorType](#) { [DCM::DeviceControl::eDT_ManuallyInserted](#), [DCM::DeviceControl::eDT_Passed](#), [DCM::DeviceControl::eDT_Generated](#), [DCM::DeviceControl::eDT_Imported](#) }

Functions

- void [DCM::DeviceControl::InsertDescriptorL](#) (in [IPS_RefTS_t](#) RefTS, in [DescriptorDataList_t](#) - [DescriptorDataList](#), in boolean Volatile) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Insert descriptors to parts of a table Imported descriptors can be uniquely identified in two ways: either by the tag and the complete descriptor bytestream stream or either by their ID.

- void [DCM::DeviceControl::DeleteDescriptorL](#) (in `IPS_RefTS_t` RefTS, in `DescriptorDataList_t` - `DescriptorDataList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete Inserted descriptors This function allows deleting descriptors using a ID or using the [TableKeysExt_t](#) with masking for location.

- void [DCM::DeviceControl::OutTS_GetDescriptorL](#) (in `IPS_RefTS_t` RefTS, in `TableKeysExt_t` - `TableKey`, out `DescriptorDataList_t` `DescriptorDataList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get ALL descriptors of a table This function can be used to see all descriptors that are available for the specified table at a certain TS.

- void [DCM::DeviceControl::OutTS_SetSpecDescrOrderRules](#) (in `IPS_RefTS_t` RefTS, in `DescriptorRuleSetList_t` `OrderRulesList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set descriptor order rules to parts of a table Full list set and no add or remove, to allow ordering on the GUI.

- void [DCM::DeviceControl::OutTS_GetSpecDescrOrderRules](#) (in `IPS_RefTS_t` RefTS, in `TableKeysExtList_t` `TableKeyList`, out `DescriptorRuleSetList_t` `OrderRulesList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get descriptor order rules Symmetrical with [OutTS_SetSpecDescrOrderRules](#).

- void [DCM::DeviceControl::OutTS_SetSpecDescrRemoveRules](#) (in `IPS_RefTS_t` RefTS, in `DescriptorRuleSetList_t` `RemoveRulesList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set descriptor blocking rules to parts of a table Full list set and no add or remove, to allow ordering on the GUI.

- void [DCM::DeviceControl::OutTS_GetSpecDescrRemoveRules](#) (in `IPS_RefTS_t` RefTS, in `TableKeysExtList_t` `TableKeyList`, out `DescriptorRuleSetList_t` `RemoveRulesList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get descriptor blocking rules Symmetrical with [OutTS_SetSpecDescrRemoveRules](#).

- void [DCM::DeviceControl::Board_SetDefDescrOrderRules](#) (in `IPS_Ref_t` PhysRef, in `DescriptorRuleSetList_t` `OrderRules`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default descriptor order rules.

- void [DCM::DeviceControl::Board_GetDefDescrOrderRules](#) (in `IPS_Ref_t` PhysRef, out `DescriptorRuleSetList_t` `OrderRules`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default descriptor order rules.

- void [DCM::DeviceControl::Board_SetDefDescrRemoveRules](#) (in `IPS_Ref_t` PhysRef, in `DescriptorRuleSetList_t` `RemoveRules`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default descriptor blocking rules.

- void [DCM::DeviceControl::Board_GetDefDescrRemoveRules](#) (in `IPS_Ref_t` PhysRef, out `DescriptorRuleSetList_t` `RemoveRules`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default descriptor blocking rules.

- void [DCM::DeviceControl::MergedES_InsertDescriptorL](#) (in `IPS_RefTS_t` RefTS, in `MergedESDescriptorDataList_t` `DescriptorDataList`, in `boolean` `volatile`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Insert descriptors to merged elementary streams Imported descriptors can be uniquely identified in two ways: either by the tag and the complete descriptor bytestream stream or either by their ID.

- void [DCM::DeviceControl::MergedES_DeleteDescriptorL](#) (in `IPS_RefTS_t` RefTS, in `MergedESDescriptorDataList_t` `DescriptorDataList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete inserted descriptors from Merged ESs This function allows deleting descriptors using a ID.

- void [DCM::DeviceControl::OutTs_GetMergedES_DescriptorL](#) (in IPS_RefTS_t RefTS, in unsigned long OutputSID, out MergedESDescriptorDataList_t DescriptorDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get ALL Merged ES descriptors for a specific output service This function can be used to see all descriptors that are available for the specified table at a certain TS.

8.14.1 Detailed Description

This contains types, enums and methods to configure descriptors settings of the multiplexer part in the device.

8.14.2 Typedef Documentation

8.14.2.1 typedef sequence<DescriptorData_t> DCM::DeviceControl::DescriptorDataList_t

Definition at line 7834 of file DCM.idl.

8.14.2.2 typedef sequence<DescriptorRule_t> DCM::DeviceControl::DescriptorRuleList_t

Definition at line 7841 of file DCM.idl.

8.14.2.3 typedef sequence<DescriptorRuleSet_t> DCM::DeviceControl::DescriptorRuleSetList_t

Definition at line 7848 of file DCM.idl.

8.14.2.4 typedef sequence<MergedESDescriptorData_t> DCM::DeviceControl::MergedESDescriptorDataList_t

Definition at line 8034 of file DCM.idl.

8.14.2.5 typedef sequence<TableKeysExt_t> DCM::DeviceControl::TableKeysExtList_t

Definition at line 7815 of file DCM.idl.

8.14.3 Enumeration Type Documentation

8.14.3.1 enum DCM::DeviceControl::eDescriptorType

Enumerator:

eDT_ManuallyInserted typically from GUI

eDT_Passed typically from input

eDT_Generated e.g. SCS

eDT_Imported e.g. PSIG

Definition at line 7817 of file DCM.idl.

8.14.4 Function Documentation

8.14.4.1 void DCM::DeviceControl::Board_GetDefDescrOrderRules (in IPS_Ref_t *PhysRef*, out DescriptorRuleSetList_t *OrderRules*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default descriptor order rules.

Symmetrical with Board_SetDefDescrOrderRules.

Parameters

in	<i>PhysRef</i>	specifies the board for which the rules are set. The port is ignored.
out	<i>OrderRules</i>	

Returns

OrderRules is returned

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
-----------------------	---

8.14.4.2 void DCM::DeviceControl::Board_GetDefDescrRemoveRules (in IPS_Ref_t *PhysRef*, out DescriptorRuleSetList_t *RemoveRules*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default descriptor blocking rules.

Symmetrical with Board_SetDefDescrRemoveRules.

Parameters

in	<i>PhysRef</i>	specifies the board for which the rules are set. The port is ignored.
out	<i>RemoveRules</i>	

Returns

RemoveRules is returned

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
-----------------------	---

8.14.4.3 void DCM::DeviceControl::Board_SetDefDescrOrderRules (in IPS_Ref_t *PhysRef*, in DescriptorRuleSetList_t *OrderRules*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default descriptor order rules.

When a new tables are created, these settings will be added to them.

Parameters

in	<i>PhysRef</i>	specifies the board for which the rules are set. The port is ignored.
in	<i>OrderRules</i>	specifies the descriptor order rules. The tablekeys part is ignored.

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of • Descriptor Data larger than 255 bytes

8.14.4.4 void DCM::DeviceControl::Board_SetDefDescrRemoveRules (in IPS_Ref_t *PhysRef*, in DescriptorRuleSetList_t *RemoveRules*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default descriptor blocking rules.

When a new tables are created, these settings will be added to them.

Parameters

in	<i>PhysRef</i>	specifies the board for which the rules are set. The port is ignored.
in	<i>RemoveRules</i>	specifies the descriptor order rules. The tablekeys part is ignored.

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of • Descriptor Data larger than 255 bytes

8.14.4.5 void DCM::DeviceControl::DeleteDescriptorL (in IPS_RefTS_t *RefTS*, in DescriptorDataList_t *DescriptorDataList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete Inserted descriptors This function allows deleting descriptors using a ID or using the [TableKeysExt_t](#) with masking for location.

If the ID is not invalid then a delete based on ID will be performed.

Parameters

in	<i>RefTS</i>	specifies the TS on which descriptors are deleted
in	<i>DescriptorDataList</i>	specifies which inserted descriptors must be deleted

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of • Invalid references (RefTS). • No Tables found

8.14.4.6 void DCM::DeviceControl::InsertDescriptorL (in IPS_RefTS_t *RefTS*, in DescriptorDataList_t *DescriptorDataList*, in boolean *Volatile*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Insert descriptors to parts of a table Imported descriptors can be uniquely identified in two ways: either by the tag and the complete descriptor bytestream stream or either by their ID.

Other descriptors (generated and passed) can only be uniquely identified using their tag and bytestream. The user can give the descriptor a name.

Parameters

in	<i>RefTS</i>	specifies the TS on which descriptors are inserted
in	<i>DescriptorDataList</i>	specifies the inserted descriptors and where they must be inserted
in	<i>Volatile</i>	specifies whether the descriptors must be saved to file

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of - Invalid references (RefTS) - No Tables found - Descriptor Data larger than 255 bytes - No more free ID's (2147483646 available) - DescriptorType set to something other than eDT_ManuallyInserted

8.14.4.7 void DCM::DeviceControl::MergedES_DeleteDescriptorL (in IPS_RefTS_t *RefTS*, in MergedESDescriptorDataList_t *DescriptorDataList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete inserted descriptors from Merged ESs This function allows deleting descriptors using a ID.

Parameters

in	<i>RefTS</i>	specifies the TS on which descriptors are deleted
in	<i>DescriptorDataList</i>	specifies which inserted descriptors must be deleted (username, tag and bytestream parameters are ignored)

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of - Invalid references (RefTS). - Merged ES not found

Version

release 6.9

8.14.4.8 void DCM::DeviceControl::MergedES_InsertDescriptorL (in IPS_RefTS_t *RefTS*, in MergedESDescriptorDataList_t *DescriptorDataList*, in boolean *volatile*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Insert descriptors to merged elementary streams Imported descriptors can be uniquely identified in two ways: either by the tag and the complete descriptor bytestream stream or either by their ID.

The user can give the descriptor a name.

Parameters

in	<i>RefTS</i>	specifies the TS on which descriptors are inserted
in	<i>DescriptorDataList</i>	specifies the inserted descriptors and where they must be inserted the ID parameter should be set to -1 (invalid)
in	<i>volatile</i>	specifies whether the descriptors must be saved to file

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of • Invalid references (RefTS) • Merged ES not found • Descriptor Data larger than 255 bytes • No more free ID's (2147483646 available)

Version

release 6.9

8.14.4.9 void DCM::DeviceControl::OutTS_GetDescriptorL (in IPS_RefTS_t *RefTS*, in TableKeysExt_t *TableKey*, out DescriptorDataList_t *DescriptorDataList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get ALL descriptors of a table This function can be used to see all descriptors that are available for the specified table at a certain TS.

(dynamic and all inserted descriptors)

Parameters

in	<i>RefTS</i>	specifies the TS on which descriptors are deleted
in	<i>TableKey</i>	specifies which descriptors are to be retrieved. When TableID = 0xFF, all descriptors of the TS are retrieved
out	<i>DescriptorDataList</i>	

Returns

DescriptorDataList list of descriptors

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of Invalid references (RefTS).

8.14.4.10 void DCM::DeviceControl::OutTs_GetMergedES_DescriptorL (in IPS_RefTS_t *RefTS*, in unsigned long *OutputSID*, out MergedESDescriptorDataList_t *DescriptorDataList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get ALL Merged ES descriptors for a specific output service This function can be used to see all descriptors that are available for the specified table at a certain TS.

(dynamic and all inserted descriptors)

Parameters

in	<i>RefTS</i>	specifies the TS on which descriptors are deleted
in	<i>OutputSID</i>	specifies the output service ID for which the descriptor should be retrieved. 0xFFFFFFFF means for all output service of the given output TS
out	<i>DescriptorDataList</i>	specifies descriptors

Returns

MergedES_DescriptorDataList list of descriptors

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of Invalid references (RefTS).

Version

release 6.9

8.14.4.11 void DCM::DeviceControl::OutTS_GetSpecDescrOrderRules (in IPS_RefTS_t *RefTS*, in TableKeysExtList_t *TableKeyList*, out DescriptorRuleSetList_t *OrderRulesList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get descriptor order rules Symmetrical with OutTS_SetSpecDescrOrderRules.

Parameters

in	<i>RefTS</i>	specifies the TS for which the rules are retrieved
in	<i>TableKeyList</i>	specifies the table-parts for which the rules are retrieved
out	<i>OrderRulesList</i>	

Returns

OrderRulesList specifies the descriptor order rules and where they must be applied

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of Invalid references (RefTS).

8.14.4.12 void DCM::DeviceControl::OutTS_GetSpecDescrRemoveRules (in IPS_RefTS_t *RefTS*, in TableKeysExtList_t *TableKeyList*, out DescriptorRuleSetList_t *RemoveRulesList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get descriptor blocking rules Symmetrical with OutTS_SetSpecDescrRemoveRules.

Parameters

in	<i>RefTS</i>	specifies the TS for which the rules are retrieved
in	<i>TableKeyList</i>	specifies the table-parts for which the rules are retrieved
out	<i>RemoveRules-List</i>	

Returns

RemoveRulesList specifies the descriptor blocking rules and where they must be applied

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of Invalid references (RefTS).

8.14.4.13 void DCM::DeviceControl::OutTS_SetSpecDescrOrderRules (in IPS_RefTS_t *RefTS*, in DescriptorRuleSetList_t *OrderRulesList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set descriptor order rules to parts of a table Full list set and no add or remove, to allow ordering on the GUI.

Call is to be used to add/remove/update the specific rules.

Parameters

in	<i>RefTS</i>	specifies the TS for which the rules are set
in	<i>OrderRulesList</i>	specifies the descriptor order rules and where they must be applied

Returns

DescriptorDataList list of descriptors

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of • Invalid references (RefTS). • No Tables found • Descriptor Data larger than 255 bytes

8.14.4.14 void DCM::DeviceControl::OutTS_SetSpecDescrRemoveRules (in IPS_RefTS_t *RefTS*, in DescriptorRuleSetList_t *RemoveRulesList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set descriptor blocking rules to parts of a table Full list set and no add or remove, to allow ordering on the GUI.

Call is to be used to add/remove/update the specific rules.

Parameters

in	<i>RefTS</i>	specifies the TS for which the rules are set
in	<i>RemoveRules-List</i>	specifies the descriptor blocking rules and where they must be applied

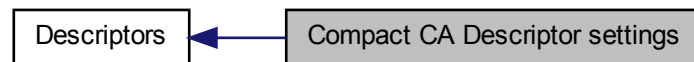
Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of • Invalid references (RefTS). • No Tables found • Descriptor Data larger than 255 bytes

8.15 Compact CA Descriptor settings

This contains types, enums and methods to configure the handling of compact CA descriptors.

Collaboration diagram for Compact CA Descriptor settings:



Classes

- struct `DCM::DeviceControl::CompactCaMode_t`
Compact CA descriptor setting (per input TS)
- struct `DCM::DeviceControl::InTS_CompactCaMode_t`
Compact CA descriptor settings for specific TS.

Typedefs

- typedef sequence `< InTS_CompactCaMode_t > DCM::DeviceControl::InTS_CompactCaMode_List_t`
A sequence of `InTS_CompactCaMode_t` entries.

Enumerations

- enum `DCM::DeviceControl::eCompactCaMode` { `DCM::DeviceControl::CompactCaModeOff`, `DCM::DeviceControl::CompactCaModeOn` }
Compact CA mode.

Functions

- void `DCM::DeviceControl::InTS_CompactCaMode_SetL` (in `IPS_Ref_t RefPhys`, in `InTS_CompactCaMode_List_t InTS_CompactCaMode_List`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set Compact CA descriptor settings for some input TS.
- void `DCM::DeviceControl::InTS_CompactCaMode_GetL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`, out `InTS_CompactCaMode_List_t InTS_CompactCaMode_List`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get Compact CA descriptor settings for some input TS.
- void `DCM::DeviceControl::InTS_CompactCaMode_DeIL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Delete the Compact CA descriptor settings for some input TS (revert to default)

- void [DCM::DeviceControl::SetDefault_CompactCaMode](#) (in unsigned short BoardNumber, in e-CompactCaMode CompactCaMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default Compact CA mode settings to be used for all InTS without Compact CA settings.

- void [DCM::DeviceControl::GetDefault_CompactCaMode](#) (in unsigned short BoardNumber, out e-CompactCaMode CompactCaMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default Compact CA mode settings to be used for all InTS without Compact CA settings.

8.15.1 Detailed Description

This contains types, enums and methods to configure the handling of compact CA descriptors.

8.15.2 Typedef Documentation

8.15.2.1 `typedef sequence<InTS_CompactCaMode_t> DCM::DeviceControl::InTS_CompactCaMode_List_t`

A sequence of [InTS_CompactCaMode_t](#) entries.

Definition at line 8121 of file DCM.idl.

8.15.3 Enumeration Type Documentation

8.15.3.1 `enum DCM::DeviceControl::eCompactCaMode`

Compact CA mode.

Enumerator:

CompactCaModeOff Compact CA descriptors are handled like other CA descriptors.

CompactCaModeOn Compact CA descriptors are interpreted and private pids are recognized.

Definition at line 8100 of file DCM.idl.

8.15.4 Function Documentation

8.15.4.1 `void DCM::DeviceControl::GetDefault_CompactCaMode ( in unsigned short BoardNumber, out eCompactCaMode CompactCaMode ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)`

Get default Compact CA mode settings to be used for all InTS without Compact CA settings.

Defaults are attached to a board.

Parameters

in	<i>BoardNumber</i>	The BoardNumber you want information about.
out	<i>CompactCa-Mode</i>	The current default.

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OpNotSucceeded</i>	In case of BoardNumber does not exist

8.15.4.2 void DCM::DeviceControl::InTS_CompactCaMode_DelL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete the Compact CA descriptor settings for some input TS (revert to default)

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr of which parameters need to be changed.
in	<i>RefTsList</i>	List of Referenced input TS for which to delete the Compact CA settings

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OpNotSucceeded</i>	In case of - RefPhys does not exist (or is a backup port) - RefTs does not match RefPhys

8.15.4.3 void DCM::DeviceControl::InTS_CompactCaMode_GetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, out InTS_CompactCaMode_List_t *InTS_CompactCaMode_List*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Compact CA descriptor settings for some input TS.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr you want information about.
in	<i>RefTsList</i>	List of Referenced input TS for which to return the Compact CA Settings. Empty list=all InTs attached to RefPhys
out	<i>InTS_Compact-CaMode_List</i>	List of RefTsIn/CompactCaMode_t pairs

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OpNotSucceeded</i>	In case of - RefPhys does not exist (or is a backup port) - RefTs does not match RefPhys

8.15.4.4 void DCM::DeviceControl::InTS_CompactCaMode_SetL (in IPS_Ref_t *RefPhys*,
in InTS_CompactCaMode_List_t *InTS_CompactCaMode_List*) raises (Timeout,
OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Compact CA descriptor settings for some input TS.

Parameters

in	<i>RefPhys</i>	The BoardNr and PortNr of which parameters need to be changed.
in	<i>InTS_CompactCaMode_List</i>	List of RefTsIn/CompactCaMode_t pairs

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OpNotSucceeded</i>	In case of • <i>RefPhys</i> does not exist (or is a backup port) • InTS_CompactCaMode_t out of range

8.15.4.5 void DCM::DeviceControl::SetDefault_CompactCaMode (in unsigned short *BoardNumber*,
in eCompactCaMode *CompactCaMode*) raises (Timeout, OpNotSucceeded, OpNotAllowed,
OpNotSupported)

Set default Compact CA mode settings to be used for all InTS without Compact CA settings.

Defaults are attached to a board. The change takes effect immediately for each input TS that is set to default.

Parameters

in	<i>BoardNumber</i>	The BoardNumber of which parameters need to be changed.
in	<i>CompactCaMode</i>	The new default setting.

Exceptions

<i>OpNotSupported</i>	This call is not supported in the running software version.
<i>OpNotSucceeded</i>	In case of • <i>BoardNumber</i> does not exist • <i>CompactCaMode</i> out of range

8.16 Others

This contains types, enums and methods to configure other settings of the multiplexer part in the device.

Collaboration diagram for Others:



Classes

- struct [DCM::DeviceControl::PSIGSubTable_t](#)
Structure that describes a PSIG provision.
- struct [DCM::DeviceControl::IIOP_SubTable_t](#)
Structure containing the properties a SubTable provisioned via IIOP.
- struct [DCM::DeviceControl::PspUpdateLocation_t](#)
- struct [DCM::DeviceControl::PspUpdateRule_t](#)
Definition of a PspUpdate Rule: number uniquely defining a rule 0: Add/update descriptor 2: Remove descriptor (this list should be updated when more rules are supported) RuleName: actual meaning of the rule (see above) Location: 0x02, 0xFFFFFFFF: PMT 0xCB, start-time: PspEIT event RuleData: extra data of rule in readable form (UTF-8): Add/update descriptor: new descriptor in hex-string.
- struct [DCM::DeviceControl::SvcOutPspUpdateRule_t](#)
- struct [DCM::DeviceControl::Scte35Data_REDUS_Switch_t](#)
The data struct for SCTE-35 command eREDUS_switch.
- struct [DCM::DeviceControl::Scte35Data_REDUS_Switch_Single_t](#)
The data struct for SCTE-35 command eREDUS_switch_single.
- struct [DCM::DeviceControl::Scte35Data_DCM_input_switch_t](#)
The data struct for SCTE-35 command eDCM_input_switch.
- struct [DCM::DeviceControl::Scte35Data_Select_now_t](#)
The data struct for SCTE-35 command eSelect_now.
- struct [DCM::DeviceControl::Scte35Data_Network_active_t](#)
The data struct for SCTE-35 command eNetwork_feed_active_or_inactive.
- struct [DCM::DeviceControl::Scte35Data_Local_avail_t](#)
The data struct for SCTE-35 command eLocal_avail_enable_or_disable.
- struct [DCM::DeviceControl::Scte35Data_Keyer_t](#)
The data struct for SCTE-35 command eKeyer_on_or_off.
- struct [DCM::DeviceControl::Scte35Data_Keyer_config_t](#)
The data struct for SCTE-35 command eKeyer_config.
- struct [DCM::DeviceControl::Scte35Data_Logo_enable_t](#)
The data struct for SCTE-35 command eLogo_enable_or_disable.
- union [DCM::DeviceControl::Scte35CommandAndData_t](#)
Union containing data structures of SCTE-35 commands.
- struct [DCM::DeviceControl::FCS_Scte35_CommandSelect_t](#)

Typedefs

- typedef sequence< PSIGSubTable_t > DCM::DeviceControl::PSIGSubTableList_t
- typedef sequence< IIOP_SubTable_t > DCM::DeviceControl::IIOP_SubTableList_t
A sequence of IIOP_SubTable_t.
- typedef sequence< PsipUpdateRule_t > DCM::DeviceControl::PsipUpdateRuleList_t
- typedef sequence< SvcOutPsipUpdateRule_t > DCM::DeviceControl::SvcOutPsipUpdateRuleList_t
- typedef sequence< Scte35CommandAndData_t > DCM::DeviceControl::Scte35CommandAndData_list_t
- typedef sequence< FCS_Scte35_CommandSelect_t > DCM::DeviceControl::FCS_Scte35_CommandList_t

Enumerations

- enum DCM::DeviceControl::eSource { DCM::DeviceControl::Cached, DCM::DeviceControl::Realtime }
- enum DCM::DeviceControl::eTableStatus { DCM::DeviceControl::Status_OK, DCM::DeviceControl::Status_ParseFailed, DCM::DeviceControl::Status_NotFound, DCM::DeviceControl::Status_Pending }
- enum DCM::DeviceControl::eSubTableRequestMode { DCM::DeviceControl::RequestModeSynchronous, DCM::DeviceControl::RequestModeAsynchronous }
- enum DCM::DeviceControl::enRedusSwitchSource { DCM::DeviceControl::eRedusSwitchSource1, DCM::DeviceControl::eRedusSwitchSource2 }
The different sources for Redus switch.
- enum DCM::DeviceControl::enRedusSwitchMode { DCM::DeviceControl::eRedusSwitchManual, DCM::DeviceControl::eRedusSwitchAutomatic }
The different modes for Redus switch.
- enum DCM::DeviceControl::enTsInputSwitchSource { DCM::DeviceControl::eTsInputSwitchSourceMain, DCM::DeviceControl::eTsInputSwitchSourceBackup }
The different sources for TS backup.
- enum DCM::DeviceControl::enTsInputSwitchMode { DCM::DeviceControl::eTsInputSwitchManual, DCM::DeviceControl::eTsInputSwitchAutomatic }
The different modes for TS backup.
- enum DCM::DeviceControl::enNetworkFeedActiveIndicator { DCM::DeviceControl::eNetworkFeedInactive, DCM::DeviceControl::eNetworkFeedActive, DCM::DeviceControl::eNetworkFeedUnknown }
The different values of the Network Feed Active indicator.
- enum DCM::DeviceControl::enLocalFeedAvailableIndicator { DCM::DeviceControl::eLocalFeedNotAvailable, DCM::DeviceControl::eLocalFeedAvailable, DCM::DeviceControl::eLocalFeedUnknown }
The different values of the Local Feed Available indicator.
- enum DCM::DeviceControl::enMotionMode { DCM::DeviceControl::eMotionModeReserverd0, DCM::DeviceControl::eMotionModeReserverd1, DCM::DeviceControl::ePalindromeOnce, DCM::DeviceControl::ePalindromeLoop, DCM::DeviceControl::eDefault, DCM::DeviceControl::eOnce, DCM::DeviceControl::eLoop, DCM::DeviceControl::eStatic }
The different values of motion mode (logo insertion related)

- enum `DCM::DeviceControl::enScte35Commands` { `DCM::DeviceControl::eREDUS_switch`, `DCM::DeviceControl::eDCM_input_switch`, `DCM::DeviceControl::eSelect_now`, `DCM::DeviceControl::eNetwork_feed_active_or_inactive`, `DCM::DeviceControl::eLocal_avail_enable_or_disable`, `DCM::DeviceControl::eSplicer_reset`, `DCM::DeviceControl::eKeyer_on_or_off`, `DCM::DeviceControl::eKeyer_config`, `DCM::DeviceControl::eLogo_enable_or_disable`, `DCM::DeviceControl::eLogo_reset`, `DCM::DeviceControl::eREDUS_switch_single`, `DCM::DeviceControl::eScte35CommandReserved06`, `DCM::DeviceControl::eScte35CommandReserved07`, `DCM::DeviceControl::eScte35CommandReserved08`, `DCM::DeviceControl::eScte35CommandReserved09`, `DCM::DeviceControl::eScte35CommandReserved10`, `DCM::DeviceControl::eScte35CommandReserved11`, `DCM::DeviceControl::eScte35CommandReserved12`, `DCM::DeviceControl::eScte35CommandReserved13`, `DCM::DeviceControl::eScte35CommandReserved14`, `DCM::DeviceControl::eScte35CommandReserved15` }

The different types of SCTE-35 commands.

- enum `DCM::DeviceControl::enFCS_Scte35_Commands` { `DCM::DeviceControl::eBasicScte35`, `DCM::DeviceControl::eInputScte35`, `DCM::DeviceControl::eOutputScte35`, `DCM::DeviceControl::eReservedForFuture1`, `DCM::DeviceControl::eReservedForFuture2`, `DCM::DeviceControl::eReservedForFuture3`, `DCM::DeviceControl::eReservedForFuture4`, `DCM::DeviceControl::eReservedForFuture5`, `DCM::DeviceControl::eReservedForFuture6`, `DCM::DeviceControl::eReservedForFuture7`, `DCM::DeviceControl::eReservedForFuture8`, `DCM::DeviceControl::eReservedForFuture9`, `DCM::DeviceControl::eReservedForFuture10` }

Functions

- void `DCM::DeviceControl::GetSubTable` (in `IPS_RefTS_t` TS, in boolean Input, in `TableKeys_t` Key, in unsigned short Pid, in eSource Location, out `ByteStream SIData`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the PSI table (PAT, CAT and PMT) of a given TS in binary format.

- void `DCM::DeviceControl::GetSubTableAsXML` (in `IPS_RefTS_t` TS, in boolean Input, in `TableKeys_t` Key, in unsigned short Pid, in eSource Location, out `ByteStream SIDataXML`, out eTableStatus Status) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the PSI table (PAT, CAT and PMT) of a given TS in XML format.

- void `DCM::DeviceControl::GetSubTableBinaryAndXML` (in `IPS_RefTS_t` TS, in boolean Input, in `TableKeys_t` Key, in unsigned short Pid, in eSource Location, in eSubTableRequestMode RequestMode, in string SessionID, out `ByteStream SIDataXML`, out `ByteStream SIData`, out eTableStatus Status) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the PSI table (PAT, CAT and PMT) of a given TS in XML format.

- void `DCM::DeviceControl::GetPSIGSubTables` (in unsigned long ONID, in unsigned long TSID, out `PSIGSubTableList_t PSIGSubTableList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the list of currently active PSIG imported tables.

- void `DCM::DeviceControl::GetPSIGSubTableBinary` (in `PSIGSubTable_t PSIGSubTable`, out `ByteStream SIData`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves a PSIG imported subtable.

- void `DCM::DeviceControl::ImportSubTable` (in unsigned long OnId, in unsigned long TsId, in boolean bPureImport, in unsigned short Pid, in `ByteStream Data`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Imports an SI sub-table via IIOP.

- void `DCM::DeviceControl::GetImportedSubTableL` (in unsigned long OnId, in unsigned long TsId, out `IIOP_SubTableList_t SubTableList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of SI sub-tables provisioned via IIOP.

- void [DCM::DeviceControl::DeleteImportedSubTableL](#) (in [IIOP_SubTableList_t](#) SubTableList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Deprovision one or more previously provisioned SI sub-tables.
- [SvcOutPspipUpdateRuleList_t](#) [DCM::DeviceControl::OutSvc_GetPspipUpdateRuleL](#) (in [IPS_RefTS_t](#) RefTS, in [ServiceIdList_t](#) OutputSidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Retrieves the PspipUpdate rules as given via Scte35-extended for a list of services.
- void [DCM::DeviceControl::Scte35CommandGetL](#) (in [IPS_Service_t](#) SvcOut, out [Scte35CommandAndData_list_t](#) Scte35CommandAndData_list) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the list of commands received through SCTE-35.
- void [DCM::DeviceControl::StationID_Get](#) (in unsigned short BoardNr, out unsigned short StationID) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the Station ID.
- void [DCM::DeviceControl::StationID_Set](#) (in unsigned short BoardNr, in unsigned short StationID) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the Station ID.
- void [DCM::DeviceControl::NetworkFeedActiveIndicatorGet](#) (in [IPS_Service_t](#) SvcOut, out [enNetworkFeedActiveIndicator](#) Network_active_indicator) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the status of the Network Feed Active Indicator.
- void [DCM::DeviceControl::LocalFeedAvailableIndicatorGet](#) (in [IPS_Service_t](#) SvcOut, out [enLocalFeedAvailableIndicator](#) Local_avail_indicator) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the status of the Local Feed Available Indicator.
- void [DCM::DeviceControl::FCS_SetScte35_CommandExecuteL](#) (in [IPS_RefTS_t](#) RefTS, in [FCS_Scte35_CommandList_t](#) Scte35_CommandList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Sets the list of customer specific SCTE_35 commands to be handled by the specified output services - Additionally sets the service that handles the 'splice to local' when a program select is received and the command handling is set to eInputScte35.
- void [DCM::DeviceControl::FCS_GetScte35_CommandExecuteL](#) (in [IPS_RefTS_t](#) RefTS, in [ServiceIdList_t](#) OutputSidList, out [FCS_Scte35_CommandList_t](#) Scte35_CommandList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Gets the list of customer specific SCTE_35 commands to be handled by the specified output service.

8.16.1 Detailed Description

This contains types, enums and methods to configure other settings of the multiplexer part in the device.

8.16.2 Typedef Documentation

8.16.2.1 `typedef sequence<FCS_Scte35_CommandSelect_t> DCM::DeviceControl::FCS_Scte35_CommandList_t`

Definition at line 8780 of file DCM.idl.

8.16.2.2 `typedef sequence<IIOP_SubTable_t> DCM::DeviceControl::IIOP_SubTableList_t`

A sequence of [IIOP_SubTable_t](#).

Definition at line 8402 of file DCM.idl.

8.16.2.3 typedef sequence<PSIGSubTable_t> DCM::DeviceControl::PSIGSubTableList_t

Definition at line 8350 of file DCM.idl.

8.16.2.4 typedef sequence<PsipUpdateRule_t> DCM::DeviceControl::PsipUpdateRuleList_t

Definition at line 8490 of file DCM.idl.

8.16.2.5 typedef sequence<Scte35CommandAndData_t> DCM::DeviceControl::Scte35CommandAndData_list_t

Definition at line 8692 of file DCM.idl.

8.16.2.6 typedef sequence<SvcOutPsipUpdateRule_t> DCM::DeviceControl::SvcOutPsipUpdateRuleList_t

Definition at line 8498 of file DCM.idl.

8.16.3 Enumeration Type Documentation**8.16.3.1 enum DCM::DeviceControl::enFCS_Scte35_Commands**

Enumerator:

eBasicScte35
eInputScte35 < Process all basic SCTE35 commands, default
eOutputScte35
eReservedForFuture1
eReservedForFuture2
eReservedForFuture3
eReservedForFuture4
eReservedForFuture5
eReservedForFuture6
eReservedForFuture7
eReservedForFuture8
eReservedForFuture9
eReservedForFuture10

Definition at line 8754 of file DCM.idl.

8.16.3.2 enum DCM::DeviceControl::enLocalFeedAvailableIndicator

The different values of the Local Feed Available indicator.

Enumerator:

eLocalFeedNotAvailable
eLocalFeedAvailable
eLocalFeedUnknown

Definition at line 8554 of file DCM.idl.

8.16.3.3 enum DCM::DeviceControl::enMotionMode

The different values of motion mode (logo insertion related)

Enumerator:

eMotionModeReserverd0
eMotionModeReserverd1
ePalindromeOnce
ePalindromeLoop
eDefault
eOnce
eLoop
eStatic

Definition at line 8562 of file DCM.idl.

8.16.3.4 enum DCM::DeviceControl::enNetworkFeedActiveIndicator

The different values of the Network Feed Active indicator.

Enumerator:

eNetworkFeedInactive
eNetworkFeedActive
eNetworkFeedUnknown

Definition at line 8546 of file DCM.idl.

8.16.3.5 enum DCM::DeviceControl::enRedusSwitchMode

The different modes for Redus switch.

Enumerator:

eRedusSwitchManual
eRedusSwitchAutomatic

Definition at line 8525 of file DCM.idl.

8.16.3.6 enum DCM::DeviceControl::enRedusSwitchSource

The different sources for Redus switch.

Enumerator:

eRedusSwitchSource1 Sometimes referred to as ?A? instead of ?1?
eRedusSwitchSource2 Sometimes referred to as ?B? instead of ?2?

Definition at line 8518 of file DCM.idl.

8.16.3.7 enum DCM::DeviceControl::enScte35Commands

The different types of SCTE-35 commands.

Enumerator:

eREDUS_switch
eDCM_input_switch
eSelect_now
eNetwork_feed_active_or_inactive
eLocal_avail_enable_or_disable
eSplicer_reset
eKeyer_on_or_off
eKeyer_config
eLogo_enable_or_disable
eLogo_reset
eREDUS_switch_single
eScte35CommandReserved06
eScte35CommandReserved07
eScte35CommandReserved08
eScte35CommandReserved09
eScte35CommandReserved10
eScte35CommandReserved11
eScte35CommandReserved12
eScte35CommandReserved13
eScte35CommandReserved14
eScte35CommandReserved15

Definition at line 8575 of file DCM.idl.

8.16.3.8 enum DCM::DeviceControl::enTsInputSwitchMode

The different modes for TS backup.

< In context of TS backup

Enumerator:

eTsInputSwitchManual
eTsInputSwitchAutomatic

Definition at line 8539 of file DCM.idl.

8.16.3.9 enum DCM::DeviceControl::enTsInputSwitchSource

The different sources for TS backup.

< In context of TS backup

Enumerator:

eTsInputSwitchSourceMain Sometimes referred to as ?A? instead of ?Main?
eTsInputSwitchSourceBackup Sometimes referred to as ?B? instead of ?Backup?

Definition at line 8532 of file DCM.idl.

8.16.3.10 enum DCM::DeviceControl::eSource

Enumerator:

*Cached**Realtime*

Definition at line 8216 of file DCM.idl.

8.16.3.11 enum DCM::DeviceControl::eSubTableRequestMode

Enumerator:

*RequestModeSynchronous**RequestModeAsynchronous*

Definition at line 8228 of file DCM.idl.

8.16.3.12 enum DCM::DeviceControl::eTableStatus

Enumerator:

*Status_OK**Status_ParseFailed**Status_NotFound**Status_Pending*

Definition at line 8221 of file DCM.idl.

8.16.4 Function Documentation**8.16.4.1 void DCM::DeviceControl::DeleteImportedSubTableL (in IIOP_SubTableList_t SubTableList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Deprovision one or more previously provisioned SI sub-tables.

Parameters

in	<i>SubTableList</i>	List of sub-tables to deprovision.
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Exceptions

<i>OpNotSucceeded</i>	if one or more sub-tables were not found.
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Version

Release 8.5

8.16.4.2 void DCM::DeviceControl::FCS_GetScte35_CommandExecuteL (in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList, out FCS_Scte35_CommandList_t Scte35_CommandList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the list of customer specific SCTE_35 commands to be handled by the specified output service.

Parameters

in	<i>RefTS</i>	: The TS the services belong to.
in	<i>OutputSidList</i>	: A list of Service ID's to get info about.
out	<i>Scte35_CommandList</i>	: a List of commands that will be handled by this output service

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case invalid output references are used (RefTS, OutputSidList).

Version

Release 7.1

8.16.4.3 void DCM::DeviceControl::FCS_SetScte35_CommandExecuteL (in IPS_RefTS_t *RefTS*, in FCS_Scte35_CommandList_t *Scte35_CommandList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the list of customer specific SCTE_35 commands to be handled by the specified output services - Additionally sets the service that handles the 'splice to local' when a program select is received and the command handling is set to eInputScte35.

Parameters

in	<i>RefTS</i>	: The TS the services belong to.
in	<i>Scte35_CommandList</i>	: a List of commands that will be handled by this output service

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case • invalid references are used • invalid values in Scte35_CommandList • no SwitchToLocalSvc is provided when the command handling is set to e-InputScte35 • The SwitchToLocalSvc is not on the same board as the SvcOut

Version

Release 7.1

8.16.4.4 void DCM::DeviceControl::GetImportedSubTableL (in unsigned long *OnId*, in unsigned long *TsId*, out IIOP_SubTableList_t *SubTableList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of SI sub-tables provisioned via IIOP.

Use this function to retrieve references of imported sub-tables for deprovisioning.

Parameters

in	<i>OnId</i>	ONID of TS. Set to 0xFFFFFFFF to retrieve all sub-tables.
in	<i>TsId</i>	TSID of TS. Set to 0xFFFFFFFF to retrieve all sub-tables.
out	<i>SubTableList</i>	List of provisioned SubTables.

Exceptions

<i>OpNotSucceeded</i>	in case of a general error.
-----------------------	-----------------------------

Version

Release 8.5

8.16.4.5 void DCM::DeviceControl::GetPSIGSubTableBinary (in PSIGSubTable_t *PSIGSubTable*, out ByteStream *SIData*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves a PSIG imported subtable.

This function will return the one (sub)table that matches the table identification if it exists. If no such table exists, the function succeeds but the *SIData* stream is empty.

Parameters

in	<i>PSIGSubTable</i>	The identification of the table, as it was obtained using the function GetPSIGSubTables.
out	<i>SIData</i>	The data as received from the PSIG. This is not necessarily the same data as is present on the output. This data corresponds to one subtable from a PSIG provision. Note that a PSIG provision can contain multiple subtables. In this case each call to this function will return only the part of the provision that corresponds with the subtable which is identified in the PSIGSubTable parameter, and multiple calls will be needed to retrieve all data.

Exceptions

<i>OpNotSucceeded</i>	An internal error occurred, or the input parameters could not be retrieved. Should not normally occur.
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8.16.4.6 void DCM::DeviceControl::GetPSIGSubTables (in unsigned long *ONID*, in unsigned long *TSID*, out PSIGSubTableList_t *PSIGSubTableList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the list of currently active PSIG imported tables.

Tables with an activation time in the future will not be returned by this function. This function returns the lists of tables exactly as they have been imported on PSIG. This means, for example, that when provisions are conflicting, both provisions will be returned, even if only one of them can be active at any given time. All provisions for all PSIG connections are always returned.

Parameters

in	<i>ONID</i>	Return only tables imported for this ONID. Set this parameter to 0xFFFF FFFF (ONID_DONT_CARE) to return tables for all ONIDs.
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in	<i>TSID</i>	Return only tables imported for this TSID. Set this parameter to 0xFFFF-FFFF (TSID_DONT_CARE) to return tables for all TSIDs.
out	<i>PSIGSubTable-List</i>	This output parameter receives the list of currently active PSIG provisions.

Exceptions

<i>OpNotSucceeded</i>	An internal error occurred, or the input parameters could not be retrieved. Should not normally occur.
-----------------------	--

8.16.4.7 void DCM::DeviceControl::GetSubTable (in IPS_RefTS_t *TS*, in boolean *Input*, in TableKeys_t *Key*, in unsigned short *Pid*, in eSource *Location*, out ByteStream *SIData*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the PSI table (PAT, CAT and PMT) of a given TS in binary format.

Parameters

in	<i>TS</i>	Holds the identification of the Port and eventually TS.
in	<i>Input</i>	Determines if we are requesting a table from input or output.
in	<i>Key</i>	Holds the identification of the requested PSI table.
in	<i>Pid</i>	The pid to acquire. Wildcard: ANY_PID_VALUE, this means that the standard PID-value of the table will be used.
in	<i>Location</i>	Determines if the table is retrieved cached or real-time.
out	<i>SIData</i>	The table information returned.

Exceptions

<i>OpNotSucceeded</i>	when TS does not exist or does not match given input flag.
<i>OpNotSucceeded</i>	is returned when a transparent PSI table is requested from the output or if a blocked PSI table is requested.

8.16.4.8 void DCM::DeviceControl::GetSubTableAsXML (in IPS_RefTS_t *TS*, in boolean *Input*, in TableKeys_t *Key*, in unsigned short *Pid*, in eSource *Location*, out ByteStream *SIDataXML*, out eTableStatus *Status*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the PSI table (PAT, CAT and PMT) of a given TS in XML format.

Parameters

in	<i>TS</i>	Holds the identification of the Port and eventually TS.
in	<i>Input</i>	Determines if we are requesting a table from input or output.
in	<i>Key</i>	Holds the identification of the requested PSI table.
in	<i>Pid</i>	The pid to acquire. Wildcard: ANY_PID_VALUE, this means that the standard PID-value of the table will be used.
in	<i>Location</i>	Determines if the table is retrieved cached or real-time.
out	<i>SIDataXML</i>	ByteStream
out	<i>Status</i>	eTableStatus.

Exceptions

<i>OpNotSucceeded</i>	when TS does not exist or does not match given input flag.
<i>OpNotSucceeded</i>	is returned when a transparent PSI table is requested from the output or if a blocked PSI table is requested.

8.16.4.9 void DCM::DeviceControl::GetSubTableBinaryAndXML (in IPS_RefTS_t *TS*, in boolean *Input*, in TableKeys_t *Key*, in unsigned short *Pid*, in eSource *Location*, in eSubTableRequestMode *RequestMode*, in string *SessionID*, out ByteStream *SIDataXML*, out ByteStream *SIData*, out eTableStatus *Status*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the PSI table (PAT, CAT and PMT) of a given TS in XML format.

Parameters

in	<i>TS</i>	Holds the identification of the Port and eventually TS.
in	<i>Input</i>	Determines if we are requesting a table from input or output.
in	<i>Key</i>	Holds the identification of the requested PSI table.
in	<i>Pid</i>	The pid to acquire. Wildcard: ANY_PID_VALUE, this means that the standard PID-value of the table will be used.
in	<i>Location</i>	Determines if the table is retrieved cached or real-time.
in	<i>RequestMode</i>	Determines if the table is requested synchronously or asynchronously.
in	<i>SessionID</i>	Session ID of the GUI currently requesting the table.
out	<i>SIDataXML</i>	Requested table is returned in XML format.
out	<i>SIData</i>	Requested table is returned in binary format.
out	<i>Status</i>	Status of the requested table

Exceptions

<i>OpNotSucceeded</i>	when TS does not exist or does not match given input flag.
<i>OpNotSucceeded</i>	is returned when a transparent PSI table is requested from the output or if a blocked PSI table is requested.

8.16.4.10 void DCM::DeviceControl::ImportSubTable (in unsigned long *OnId*, in unsigned long *TsId*, in boolean *bPureImport*, in unsigned short *Pid*, in ByteStream *Data*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Imports an SI sub-table via IIOP.

This function imports an SI sub-table via IIOP in the same way as this is done via the PSIG to MUX interface. The provisioned SI table is played out on each transport stream with matching ONID / TSID. The table keys are extracted from the provided binary data. It is possible to provide new binary data for an existing sub-table. This results in provisioning of the new binary data. Supported table ID's: NITactual, NITother.

Parameters

in	<i>OnId</i>	The original network ID of matching output TS.
in	<i>TsId</i>	Transport stream ID of matching output TS.
in	<i>bPureImport</i>	If true binary data will be played out with no modifications.
in	<i>Pid</i>	Output PID used for playout of the SI table.
in	<i>Data</i>	The SI table in binary data format.

Exceptions

<i>OpNotSucceeded</i>	if invalid parameters are provided, binary data contains a not supported table ID or any other error.
-----------------------	---

Version

Release 8.5

8.16.4.11 void DCM::DeviceControl::LocalFeedAvailableIndicatorGet (in IPS_Service_t *SvcOut*, out enLocalFeedAvailableIndicator *Local_avail_indicator*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the status of the Local Feed Available Indicator.

Parameters

in	<i>SvcOut</i>	The output service of which the SCTE-35 commands have been parsed.
out	<i>Local_avail_indicator</i>	

Exceptions

<i>OpNotSucceeded</i>	In case of invalid reference (SvcOut)
-----------------------	---------------------------------------

Version

Release 7.1

8.16.4.12 void DCM::DeviceControl::NetworkFeedActiveIndicatorGet (in IPS_Service_t *SvcOut*, out enNetworkFeedActiveIndicator *Network_active_indicator*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the status of the Network Feed Active Indicator.

Parameters

in	<i>SvcOut</i>	The output service of which the SCTE-35 commands have been parsed.
out	<i>Network_active_indicator</i>	

Exceptions

<i>OpNotSucceeded</i>	In case of invalid reference (SvcOut)
-----------------------	---------------------------------------

Version

Release 7.1

8.16.4.13 `SvcOutPsipUpdateRuleList_t DCM::DeviceControl::OutSvc_GetPsipUpdateRuleL ( in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the PsipUpdate rules as given via Scte35-extended for a list of services.

Parameters

in	<i>RefTS</i>	specifies the TS where we want to retrieve.
in	<i>OutputSidList</i>	: list of output service ids for which the PsipUpdate rules should be returned.

Returns

PsipUpdateRuleList_t : List of [PsipUpdateRule_t](#) entries

Exceptions

<i>OpNotSupported</i>	When called for other boards than IO ones (Main,...).
<i>OpNotSucceeded</i>	In case of Invalid references (RefTS)

Version

Release 7.1

8.16.4.14 `void DCM::DeviceControl::Scte35CommandGetL ( in IPS_Service_t SvcOut, out Scte35CommandAndData_list_t Scte35CommandAndData_list )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of commands received through SCTE-35.

Each type of command can occur maximum once in the list.

Parameters

in	<i>SvcOut</i>	The output service of which the SCTE-35 commands have been parsed.
out	<i>Scte35-CommandAnd-Data_list</i>	List of commands

Exceptions

<i>OpNotSucceeded</i>	In case of invalid reference (SvcOut)
-----------------------	---------------------------------------

Version

Release 7.1

8.16.4.15 void DCM::DeviceControl::StationID_Get (in unsigned short *BoardNr*, out unsigned short *StationID*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the Station ID.

Parameters

in	<i>BoardNr</i>	
out	<i>StationID</i>	Identifies where the DCM is located.

Exceptions

<i>OpNotSucceeded</i>	In case of invalid BoardNr
-----------------------	----------------------------

Version

Release 7.1

8.16.4.16 void DCM::DeviceControl::StationID_Set (in unsigned short *BoardNr*, in unsigned short *StationID*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the Station ID.

Parameters

in	<i>BoardNr</i>	
in	<i>StationID</i>	Identifies where the DCM is located. Range is [0, 255].

Exceptions

<i>OpNotSucceeded</i>	In case of invalid BoardNr
-----------------------	----------------------------

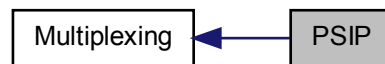
Version

Release 7.1

8.17 PSIP

This module contains types, enums and methods related to ATSC PSIP (Program and System Information Protocol)

Collaboration diagram for PSIP:



Classes

- struct [DCM::DeviceControl::MultipleStringSegment_t](#)
Multiple String: ATSC string representation.
- struct [DCM::DeviceControl::MultipleStringElement_t](#)
- struct [DCM::DeviceControl::OutTsStandard_t](#)
Transport stream specific Output TS Standard setting parameters.
- struct [DCM::DeviceControl::OutTS_SttTimeZone_t](#)
Transport stream specific STT time zone setting.
- struct [DCM::DeviceControl::VCT_Data_t](#)
Structure that contains settings about the Virtual Channel Table of a service.
- struct [DCM::DeviceControl::VCT_SvcInput_t](#)
Structure that contains status about the Virtual Channel Table of a service on input.
- struct [DCM::DeviceControl::VCT_Forcing_t](#)
- struct [DCM::DeviceControl::VCT_SvcSetting_t](#)
Structure combining service-id with settings.
- struct [DCM::DeviceControl::VCT_SvcData_t](#)
Structure that contains status about the Virtual Channel Table of a service.
- struct [DCM::DeviceControl::OutTsServiceLocationAdded_t](#)
Transport stream specific "Service Location Added" setting parameters.
- struct [DCM::DeviceControl::OutTS_PsipEitStartPid_t](#)
- struct [DCM::DeviceControl::OutTS_PsipEttStartPid_t](#)
- struct [DCM::DeviceControl::Svc_PsipEitRegenerationInfo_t](#)
Structure combining service information with the number of regenerated PSIP-EIT subtables.
- struct [DCM::DeviceControl::Svc_PsipEttRegenerationInfo_t](#)
Structure combining service information with the number of regenerated PSIP-ETT subtables.
- struct [DCM::DeviceControl::OutTS_PsipEttvPid_t](#)
- struct [DCM::DeviceControl::ETTV_ContentSetting_t](#)
Structure combining service-id with settings.
- struct [DCM::DeviceControl::ETTV_ContentData_t](#)
Structure that contains status about the Content of an ETTV.
- struct [DCM::DeviceControl::PspMgtInfo_t](#)
- struct [DCM::DeviceControl::TS_PspMgtInfo_t](#)

Typedefs

- typedef sequence < MultipleStringElement_t > DCM::DeviceControl::MultipleString_t
- typedef sequence< OutTsStandard_t > DCM::DeviceControl::OutTsStandardList_t
A sequence of OutTsStandard_t.
- typedef sequence < OutTS_SttTimeZone_t > DCM::DeviceControl::OutTS_SttTimeZone_List_t
A sequence of OutTS_SttTimeZone_t.
- typedef sequence< VCT_SvcInput_t > DCM::DeviceControl::VCT_SvcInput_List_t
A sequence of VCT_SvcInput_t.
- typedef sequence < VCT_SvcSetting_t > DCM::DeviceControl::VCT_SvcSetting_List_t
A sequence of VCT_Setting_t.
- typedef sequence< VCT_SvcData_t > DCM::DeviceControl::VCT_SvcData_List_t
A sequence of VCT_Data_t.
- typedef sequence < OutTsServiceLocationAdded_t > DCM::DeviceControl::OutTsServiceLocation-AddedList_t
- typedef sequence < OutTS_PsipEitStartPid_t > DCM::DeviceControl::OutTS_PsipEitStartPidList-_t
- typedef sequence < OutTS_PsipEttStartPid_t > DCM::DeviceControl::OutTS_PsipEttStartPidList-_t
- typedef sequence < Svc_PsipEitRegenerationInfo_t > DCM::DeviceControl::Svc_PsipEitRegeneration-InfoList_t
A sequence of Svc_PsipEitRegenerationInfo_t.
- typedef sequence < Svc_PsipEttRegenerationInfo_t > DCM::DeviceControl::Svc_PsipEttRegeneration-InfoList_t
A sequence of Svc_PsipEttRegenerationInfo_t.
- typedef sequence < OutTS_PsipEttvPid_t > DCM::DeviceControl::OutTS_PsipEttvPid_List_t
- typedef sequence < ETTV_ContentSetting_t > DCM::DeviceControl::ETTV_ContentSetting_List-_t
A sequence of ETTV_ContentSetting_t.
- typedef sequence < ETTV_ContentData_t > DCM::DeviceControl::ETTV_ContentData_List_t
A sequence of ETTV_ContentData_t.
- typedef sequence< PsipMgtInfo_t > DCM::DeviceControl::PsipMgtInfoList_t
- typedef sequence < TS_PsipMgtInfo_t > DCM::DeviceControl::TS_PsipMgtInfoList_t

Enumerations

- enum DCM::DeviceControl::eTableStandard_t { DCM::DeviceControl::eTableStandardAll, DCM::DeviceControl::eTableStandardMPEG2, DCM::DeviceControl::eTableStandardDVB, DCM::DeviceControl::eTableStandardATSC }
Transport Stream standard to guide generation (and display) of output tables.
- enum DCM::DeviceControl::eTriBool { DCM::DeviceControl::eTB_Transparent, DCM::DeviceControl::eTB_False, DCM::DeviceControl::eTB_True }
- enum DCM::DeviceControl::eVctModulation { DCM::DeviceControl::eVctModulationMode_Transparent, DCM::DeviceControl::eVctModulationMode_Analog, DCM::DeviceControl::eVctModulationMode_Qam64, DCM::DeviceControl::eVctModulationMode_Qam256, DCM::DeviceControl::eVctModulationMode_Vsb8, DCM::DeviceControl::eVctModulationMode_Vsb16 }
- enum DCM::DeviceControl::eVctEtmLocation { DCM::DeviceControl::eVctEtmLocation_Transparent, DCM::DeviceControl::eVctEtmLocation_NoEtm, DCM::DeviceControl::eVctEtmLocation_InternalEtm, DCM::DeviceControl::eVctEtmLocation_ExternalEtm }

- enum `DCM::DeviceControl::eVctServiceType` { `DCM::DeviceControl::eVctServiceType_Transparent`, `DCM::DeviceControl::eVctServiceType_Analog`, `DCM::DeviceControl::eVctServiceType_Digital-television`, `DCM::DeviceControl::eVctServiceType_Digital_audio`, `DCM::DeviceControl::eVctServiceType_Digital_data` }

Functions

- void `DCM::DeviceControl::SetDefaultOutputTsStandard` (in unsigned short Board, in `eTableStandard_t` eNew) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the default output TS standard.
- void `DCM::DeviceControl::GetDefaultOutputTsStandard` (in unsigned short Board, out `eTableStandard_t` eStandard) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the default output TS standard.
- void `DCM::DeviceControl::OutputTsStandardSetL` (in `IPS_Ref_t` RefPhys, in `OutTsStandardList_t` lst) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set Output TS Standard for some OutTS.
- void `DCM::DeviceControl::OutputTsStandardGetL` (in `IPS_Ref_t` RefPhys, in `IPS_RefTS_List_t` - `RefTsList`, out `OutTsStandardList_t` lst) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get Output TS Standard for some OutTS.
- void `DCM::DeviceControl::SetGpsUtcOffset` (in unsigned short Board, in unsigned short Offset) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the GPS-UTC offset.
- void `DCM::DeviceControl::GetGpsUtcOffset` (in unsigned short Board, out unsigned short Offset) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the GPS-UTC offset.
- void `DCM::DeviceControl::OutTS_SttTimeZone_SetL` (in `IPS_Ref_t` RefPhys, in `OutTS_SttTimeZone_List_t` lst) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set STT time zone for some OutTS.
- void `DCM::DeviceControl::OutTS_SttTimeZone_GetL` (in `IPS_Ref_t` RefPhys, in `IPS_RefTS_List_t` - `RefTsList`, out `OutTS_SttTimeZone_List_t` lst) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get STT time zone for some OutTS.
- `VCT_SvcInput_List_t` `DCM::DeviceControl::VCT_InputData_GetL` (in `IPS_RefTS_t` RefTS, in `-ServiceIdList_t` SidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get VCT data for some input services.
- `VCT_SvcData_List_t` `DCM::DeviceControl::CVCT_OutputData_GetL` (in `IPS_RefTS_t` RefTS, in `-ServiceIdList_t` SidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get CVCT data (settings and input) for some output services.
- `VCT_SvcData_List_t` `DCM::DeviceControl::TVCT_OutputData_GetL` (in `IPS_RefTS_t` RefTS, in `-ServiceIdList_t` SidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get TVCT data (settings and input) for some output services.
- void `DCM::DeviceControl::CVCT_OutputData_SetL` (in `IPS_RefTS_t` RefTS, in `VCT_SvcSetting_List_t` lst) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set CVCT settings for some output services.
- void `DCM::DeviceControl::TVCT_OutputData_SetL` (in `IPS_RefTS_t` RefTS, in `VCT_SvcSetting_List_t` lst) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set TVCT settings for some output services.

- void `DCM::DeviceControl::CVCT_ServiceLocationAddedSetL` (in `IPS_Ref_t RefPhys`, in `OutTsServiceLocationAddedList_t AddedList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set per TS whether the service location descriptor must be added per CVCT fragment.

- void `DCM::DeviceControl::CVCT_ServiceLocationAddedGetL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`, out `OutTsServiceLocationAddedList_t AddedList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get per TS whether the service location descriptor must be added per CVCT fragment.

- void `DCM::DeviceControl::TVCT_ServiceLocationAddedSetL` (in `IPS_Ref_t RefPhys`, in `OutTsServiceLocationAddedList_t AddedList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set per TS whether the service location descriptor must be added per TVCT fragment.

- void `DCM::DeviceControl::TVCT_ServiceLocationAddedGetL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`, out `OutTsServiceLocationAddedList_t AddedList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get per TS whether the service location descriptor must be added per TVCT fragment.

- void `DCM::DeviceControl::SetDefault_PsipEitStartPid` (in unsigned short Board, in unsigned short StartPid) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default output PSIP-EIT start PID.

- void `DCM::DeviceControl::GetDefault_PsipEitStartPid` (in unsigned short Board, out unsigned short StartPid) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default output PSIP-EIT start PID.

- void `DCM::DeviceControl::SetDefault_PsipEttStartPid` (in unsigned short Board, in unsigned short StartPid) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default output PSIP-ETT start PID.

- void `DCM::DeviceControl::GetDefault_PsipEttStartPid` (in unsigned short Board, out unsigned short StartPid) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default output PSIP-ETT start PID.

- void `DCM::DeviceControl::OutTS_PsipEitStartPid_SetL` (in `IPS_Ref_t RefPhys`, in `OutTS_PsipEitStartPidList_t StartPidList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output TS PSIP-EIT start PID for some OutTS.

- void `DCM::DeviceControl::OutTS_PsipEitStartPid_GetL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`, out `OutTS_PsipEitStartPidList_t StartPidList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output TS PSIP-EIT start PID for some OutTS.

- void `DCM::DeviceControl::OutTS_PsipEttStartPid_SetL` (in `IPS_Ref_t RefPhys`, in `OutTS_PsipEttStartPidList_t StartPidList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output TS PSIP-ETT start PID for some OutTS.

- void `DCM::DeviceControl::OutTS_PsipEttStartPid_GetL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`, out `OutTS_PsipEttStartPidList_t StartPidList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output TS PSIP-ETT start PID for some OutTS.

- void `DCM::DeviceControl::SetDefault_PsipEitRegeneration` (in unsigned short Board, in unsigned short NbrOfTables) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default number of regenerated PSIP-EIT subtables.

- void `DCM::DeviceControl::GetDefault_PsipEitRegeneration` (in unsigned short Board, out unsigned short NbrOfTables) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default number of regenerated PSIP-EIT subtables.

- void `DCM::DeviceControl::SetDefault_PsipEttRegeneration` (in unsigned short Board, in unsigned short NbrOfTables) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default number of regenerated PSIP-ETT subtables.

- void [DCM::DeviceControl::GetDefault_PsipEttRegeneration](#) (in unsigned short Board, out unsigned short NbrOfTables) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default number of regenerated PSIP-ETT subtables.

- void [DCM::DeviceControl::SetPsipEitRegeneration](#) (in IPS_RefTS_t RefTs, in Svc_PsipEitRegeneration-InfoList_t PsipEitRegenerationInfoList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output Service PSIP-EIT Regeneration info.

- Svc_PsipEitRegenerationInfoList_t [DCM::DeviceControl::GetPsipEitRegeneration](#) (in IPS_RefTS_t RefTs, in ServiceIdList_t SidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output Service PSIP-EIT Regeneration info.

- void [DCM::DeviceControl::SetPsipEttRegeneration](#) (in IPS_RefTS_t RefTs, in Svc_PsipEttRegeneration-InfoList_t PsipEttRegenerationInfoList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output Service PSIP-ETT Regeneration info.

- Svc_PsipEttRegenerationInfoList_t [DCM::DeviceControl::GetPsipEttRegeneration](#) (in IPS_RefTS_t RefTs, in ServiceIdList_t SidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output Service PSIP-ETT Regeneration info.

- void [DCM::DeviceControl::SetDefaultPsipEttvPid](#) (in unsigned short Board, in unsigned short Pid) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default output PSIP-ETTV PID.

- void [DCM::DeviceControl::GetDefaultPsipEttvPid](#) (in unsigned short Board, out unsigned short Pid) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default output PSIP-ETTV PID.

- void [DCM::DeviceControl::OutTS_PsipEttvPid_SetL](#) (in IPS_Ref_t RefPhys, in OutTS_PsipEttvPid_List_t PidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output TS PSIP-ETTV PID for some OutTS.

- void [DCM::DeviceControl::OutTS_PsipEttvPid_GetL](#) (in IPS_Ref_t RefPhys, in IPS_RefTS_List_t RefTsList, out OutTS_PsipEttvPid_List_t PidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output TS PSIP-ETTV PID for some OutTS.

- void [DCM::DeviceControl::ETTV_OutputData_SetL](#) (in IPS_RefTS_t RefTS, in ETTV_Content-Setting_List_t lst) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output Data for PSIP-ETTV.

- ETTV_ContentData_List_t [DCM::DeviceControl::ETTV_OutputData_GetL](#) (in IPS_RefTS_t RefTS, in ServiceIdList_t SidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output Data for PSIP-ETTV.

- TS_PsipMgtInfoList_t [DCM::DeviceControl::OutTS_MgtInventory_GetL](#) (in IPS_Ref_t RefPhys, in IPS_RefTS_List_t RefTsList, in unsigned long TableId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get PSIP-MGT TS inventory at the output This will give you a list of all PSIP tables which are available.

- TS_PsipMgtInfoList_t [DCM::DeviceControl::InTS_MgtInventory_GetL](#) (in IPS_Ref_t RefPhys, in IPS_RefTS_List_t RefTsList, in unsigned long TableId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get PSIP-MGT TS inventory at the input For more information, see OutTS_MgtInventory_GetL.

Variables

- const unsigned short [DCM::DeviceControl::PSIP_REGENERATION_FOLLOW_INPUT](#) = 0xffff
Number of tables follows input.

8.17.1 Detailed Description

This module contains types, enums and methods related to ATSC PSIP (Program and System Information Protocol)

8.17.2 Typedef Documentation

8.17.2.1 typedef sequence<ETTV_ContentData_t> DCM::DeviceControl::ETTV_ContentData_List_t

A sequence of [ETTV_ContentData_t](#).

Definition at line 9660 of file DCM.idl.

8.17.2.2 typedef sequence< ETTV_ContentSetting_t > DCM::DeviceControl::ETTV_ContentSetting_List_t

A sequence of [ETTV_ContentSetting_t](#).

Definition at line 9648 of file DCM.idl.

8.17.2.3 typedef sequence<MultipleStringElement_t> DCM::DeviceControl::MultipleString_t

Definition at line 8840 of file DCM.idl.

8.17.2.4 typedef sequence<OutTS_PsipEitStartPid_t> DCM::DeviceControl::OutTS_PsipEitStartPid_List_t

Definition at line 9287 of file DCM.idl.

8.17.2.5 typedef sequence<OutTS_PsipEttStartPid_t> DCM::DeviceControl::OutTS_PsipEttStartPid_List_t

Definition at line 9295 of file DCM.idl.

8.17.2.6 typedef sequence< OutTS_PsipEttvPid_t > DCM::DeviceControl::OutTS_PsipEttvPid_List_t

Definition at line 9577 of file DCM.idl.

8.17.2.7 typedef sequence<OutTS_SttTimeZone_t> DCM::DeviceControl::OutTS_SttTimeZone_List_t

A sequence of [OutTS_SttTimeZone_t](#).

Definition at line 8970 of file DCM.idl.

8.17.2.8 typedef sequence<OutTsServiceLocationAdded_t> DCM::DeviceControl::OutTsService-LocationAddedList_t

Definition at line 9215 of file DCM.idl.

8.17.2.9 typedef sequence<OutTsStandard_t> DCM::DeviceControl::OutTsStandardList_t

A sequence of [OutTsStandard_t](#).

Definition at line 8888 of file DCM.idl.

8.17.2.10 typedef sequence<PsipMgtInfo_t> DCM::DeviceControl::PsipMgtInfoList_t

Definition at line 9702 of file DCM.idl.

8.17.2.11 typedef sequence<Svc_PsipEitRegenerationInfo_t> DCM::DeviceControl::Svc_PsipEitRegenerationInfoList_t

A sequence of [Svc_PsipEitRegenerationInfo_t](#).

Definition at line 9487 of file DCM.idl.

8.17.2.12 typedef sequence<Svc_PsipEttRegenerationInfo_t> DCM::DeviceControl::Svc_PsipEttRegenerationInfoList_t

A sequence of [Svc_PsipEttRegenerationInfo_t](#).

Definition at line 9499 of file DCM.idl.

8.17.2.13 typedef sequence<TS_PsipMgtInfo_t> DCM::DeviceControl::TS_PsipMgtInfoList_t

Definition at line 9710 of file DCM.idl.

8.17.2.14 typedef sequence<VCT_SvcData_t> DCM::DeviceControl::VCT_SvcData_List_t

A sequence of [VCT_Data_t](#).

Definition at line 9127 of file DCM.idl.

8.17.2.15 typedef sequence<VCT_SvcInput_t> DCM::DeviceControl::VCT_SvcInput_List_t

A sequence of [VCT_SvcInput_t](#).

Definition at line 9076 of file DCM.idl.

8.17.2.16 typedef sequence<VCT_SvcSetting_t> DCM::DeviceControl::VCT_SvcSetting_List_t

A sequence of [VCT_Setting_t](#).

Definition at line 9115 of file DCM.idl.

8.17.3 Enumeration Type Documentation**8.17.3.1 enum DCM::DeviceControl::eTableStandard_t**

Transport Stream standard to guide generation (and display) of output tables.

This enum is added for PSIP support.

Enumerator:

eTableStandardAll

eTableStandardMPEG2 (PAT, CAT and PMT only)

eTableStandardDVB

eTableStandardATSC Support for PSIP.

Definition at line 8845 of file DCM.idl.

8.17.3.2 enum DCM::DeviceControl::eTriBool

Enumerator:

eTB_Transparent

eTB_False

eTB_True

Definition at line 9012 of file DCM.idl.

8.17.3.3 enum DCM::DeviceControl::eVctEtmLocation

Enumerator:

eVctEtmLocation_Transparent

eVctEtmLocation_NoEtm

eVctEtmLocation_InternalEtm

eVctEtmLocation_ExternalEtm

Definition at line 9029 of file DCM.idl.

8.17.3.4 enum DCM::DeviceControl::eVctModulation

Enumerator:

eVctModulationMode_Transparent

eVctModulationMode_Analog

eVctModulationMode_Qam64

eVctModulationMode_Qam256

eVctModulationMode_Vsb8

eVctModulationMode_Vsb16

Definition at line 9019 of file DCM.idl.

8.17.3.5 enum DCM::DeviceControl::eVctServiceType

Enumerator:

eVctServiceType_Transparent

eVctServiceType_Analog

eVctServiceType_Digital_television

eVctServiceType_Digital_audio

eVctServiceType_Digital_data

Definition at line 9037 of file DCM.idl.

8.17.4 Function Documentation

8.17.4.1 `VCT_SvcData_List_t DCM::DeviceControl::CVCT_OutputData_GetL ( in IPS_RefTS_t RefTS, in ServiceIdList_t SidList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get CVCT data (settings and input) for some output services.

Parameters

in	<i>RefTS</i>	The OutTS the services belong to.
in	<i>SidList</i>	List of ServiceId's for which to return the VCT_Data. Empty list means all Services of the TS. Invalid TS: all Services of the port. Invalid Port and TS: all services of the board.

Returns

VCT_SvcData_List_t List of Service/VCT-data pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefTs not valid or does not exist. • no ServiceId's found for in the TS.

Version

Release 6.0 (PSIP)

8.17.4.2 `void DCM::DeviceControl::CVCT_OutputData_SetL ( in IPS_RefTS_t RefTS, in VCT_SvcSetting_List_t lst )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set CVCT settings for some output services.

Parameters

in	<i>RefTS</i>	The OutTS the services belong to.
out	<i>lst</i>	List of Services with its settings. An empty list is not allowed

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefTs does not exist. • an empty list is passed. • a ServiceId is not found for in the TS. • a RefSvc doesn't match RefTS • invalid settings are given

Version

Release 6.0 (PSIP)

8.17.4.3 void DCM::DeviceControl::CVCT_ServiceLocationAddedGetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, out OutTsServiceLocationAddedList_t *AddedList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get per TS whether the service location descriptor must be added per CVCT fragment.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>RefTsList</i>	List of References of OutTs for which to return the OutTsStandard_t - Settings. Empty list equals all OutTs attached to RefPhys.
out	<i>AddedList</i>	List of RefTs/boolean pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefTs does not exist or is not an output TS. • RefPhys does not exist or is not an output Port.

Version

Release 6.0 (PSIP)

8.17.4.4 void DCM::DeviceControl::CVCT_ServiceLocationAddedSetL (in IPS_Ref_t *RefPhys*, in OutTsServiceLocationAddedList_t *AddedList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set per TS whether the service location descriptor must be added per CVCT fragment.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>AddedList</i>	List of RefTs/boolean pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist or is not an output Port. • RefTs does not match RefPhys or does not exist.

Version

Release 6.0 (PSIP)

8.17.4.5 ETTV_ContentData_List_t DCM::DeviceControl::ETTV_OutputData_GetL (in IPS_RefTS_t *RefTS*, in ServiceIdList_t *SidList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output Data for PSIP-ETTV.

Parameters

in	<i>RefTS</i>	The TS the Services are attached to.
in	<i>SidList</i>	list of services.

Returns

ETTV_ContentData_List_t.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case the • RefTS does not exist. • RefServ does not match RefTS.

Version

Release 6.5

8.17.4.6 void DCM::DeviceControl::ETTV_OutputData_SetL (in IPS_RefTS_t *RefTS*, in ETTV_ContentSetting_List_t *lst*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output Data for PSIP-ETTV.

Parameters

in	<i>RefTS</i>	The TS the Services are attached to.
in	<i>lst</i>	List of RefServ/Content/Forcing.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case the • RefTS does not exist. • Invalid values in the content. • RefServ does not match RefTS.

Version

Release 6.5

8.17.4.7 void DCM::DeviceControl::GetDefault_PsipEitRegeneration (in unsigned short *Board*, out unsigned short *NbrOfTables*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default number of regenerated PSIP-EIT subtables.

Parameters

in	<i>Board</i>	specifies BoardNr.
out	<i>NbrOfTables</i>	The current setting of the board default PSIP-EIT regeneration. Can be PSIP_REGENERATION_FOLLOW_INPUT.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
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Version

Release 6.0

8.17.4.8 void DCM::DeviceControl::GetDefault_PsipEitStartPid (in unsigned short *Board*, out unsigned short *StartPid*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default output PSIP-EIT start PID.

Parameters

in	<i>Board</i>	specifies BoardNr.
out	<i>StartPid</i>	The current setting of the start PID.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
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Version

Release 6.0

8.17.4.9 void DCM::DeviceControl::GetDefault_PsipEttRegeneration (in unsigned short *Board*, out unsigned short *NbrOfTables*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default number of regenerated PSIP-ETT subtables.

Parameters

in	<i>Board</i>	specifies BoardNr.
out	<i>NbrOfTables</i>	The current setting of the board default PSIP-ETT regeneration. Can be PSIP_REGENERATION_FOLLOW_INPUT.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
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Version

Release 6.5

8.17.4.10 void DCM::DeviceControl::GetDefault_PsipEttStartPid (in unsigned short *Board*, out unsigned short *StartPid*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default output PSIP-ETT start PID.

Parameters

in	<i>Board</i>	specifies BoardNr.
out	<i>StartPid</i>	The current setting of the start PID.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
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Version

Release 6.5

8.17.4.11 void DCM::DeviceControl::GetDefaultOutputTsStandard (in unsigned short *Board*, out eTableStandard_t *eStandard*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default output TS standard.

Parameters

in	<i>Board</i>	specifies BoardNr.
out	<i>eStandard</i>	The current setting.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
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Version

release 6.0

8.17.4.12 void DCM::DeviceControl::GetDefaultPsipEttvPid (in unsigned short *Board*, out unsigned short *Pid*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default output PSIP-ETTV PID.

Parameters

in	<i>Board</i>	specifies BoardNr.
out	<i>Pid</i>	The current setting of the PID.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
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Version

Release 6.5

8.17.4.13 void DCM::DeviceControl::GetGpsUtcOffset (in unsigned short *Board*, out unsigned short *Offset*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the GPS-UTC offset.

Parameters

in	<i>Board</i>	The Board for which to retrieve the setting.
out	<i>Offset</i>	The current offset in seconds.

Exceptions

<i>OpNotSupported</i>	When called for main board.
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See also

[SetGpsUtcOffset](#)

Version

Release 6.0 (PSIP)

8.17.4.14 Svc_PsipEitRegenerationInfoList_t DCM::DeviceControl::GetPsipEitRegeneration (in IPS_RefTS_t *RefTs*, in ServiceIdList_t *SidList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output Service PSIP-EIT Regeneration info.

Parameters

in	<i>RefTs</i>	The Output TS the services are attached to.
in	<i>SidList</i>	List of Services to return the regeneration settings of.

Returns

Svc_PsipEitRegenerationInfoList_t

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case the • RefTs not valid or does not exist. • no ServiceId's found for in the TS.

Version

Release 6.0

8.17.4.15 **Svc_PsipEttRegenerationInfoList_t** DCM::DeviceControl::GetPsipEttRegeneration (in IPS_RefTS_t *RefTs*, in ServiceIdList_t *SidList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output Service PSIP-ETT Regeneration info.

Parameters

in	<i>RefTs</i>	The Output TS the services are attached to.
in	<i>SidList</i>	List of Services to return the regeneration settings of.

Returns

Svc_PsipEttRegenerationInfoList_t

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case the • RefTs not valid or does not exist. • no ServiceId's found for in the TS.

Version

Release 6.5

8.17.4.16 **TS_PsipMgtInfoList_t** DCM::DeviceControl::InTS_MgtInventory_GetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, in unsigned long *TableId*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get PSIP-MGT TS inventory at the input For more information, see OutTS_MgtInventory_GetL.

Parameters

in	<i>RefPhys</i>	The port the InTS are attached to.
in	<i>RefTsList</i>	List of References of InTs for which to return the MGT inventory. Empty list means all InTs attached to RefPhys.
in	<i>TableId</i>	Table ID filter, use 0xFFFFFFFF for all tables.

Returns

TS_PsipMgtInfoList_t

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist. • RefTs does not match RefPhys.

See also

OutTS_MgtInventory_GetL

Version

Release 6.0

8.17.4.17 void DCM::DeviceControl::OutputTsStandardGetL (in IPS_Ref_t *RefPhys*,
in IPS_RefTS_List_t *RefTsList*, out OutTsStandardList_t *lst*) raises (TimeOut,
OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output TS Standard for some OutTS.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>RefTsList</i>	List of References of OutTs for which to return the OutTsStandard_t - Settings. Empty list equals all OutTs attached to RefPhys.
out	<i>lst</i>	List of RefTs/eTableStandard_t pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist. • RefTs does not match RefPhys

Version

Release 6.0 (PSIP)

8.17.4.18 void DCM::DeviceControl::OutputTsStandardSetL (in IPS_Ref_t *RefPhys*, in
OutTsStandardList_t *lst*) raises (TimeOut, OpNotSucceeded, OpNotAllowed,
OpNotSupported)

Set Output TS Standard for some OutTS.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>lst</i>	List of RefTs/eStandard pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist. • eStandard is invalid. • RefTs does not match RefPhys.

Version

Release 6.0 (PSIP)

8.17.4.19 TS_PsipMgtInfoList.t DCM::DeviceControl::OutTS_MgtInventory_GetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, in unsigned long *TableId*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get PSIP-MGT TS inventory at the output This will give you a list of all PSIP tables which are available.

Tables are only included if they are referenced in the MGT. Tables which are referenced in the MGT are: VCT, EIT, ETT, RRT. You can filter the list by including a Table ID. Only tables with this table ID will be returned. This is useful to retrieve a list of EIT tables or a list of RRT tables. To find out which RRT tables are available, use table ID 0xCA. To get a list of EIT tables, use table ID 0xCB. The Table Type which is returned is a table type as used in the MGT. For EIT, table types range from 0x100 (EIT-0) to 0x17F (EIT-127). For ETT, table types range from 0x200 (ETT-0) to 0x27F (ETT-127). For RRT, table types range from 0x301 (region 1) to 0x3FF (region 255).

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>RefTsList</i>	List of References of OutTs for which to return the MGT inventory. - Empty list means all OutTs attached to RefPhys.
in	<i>TableId</i>	Table ID filter, use 0xFFFFFFFF for all tables.

Returns

TS_PsipMgtInfoList_t

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist. • RefTs does not match RefPhys.

Version

Release 6.0

8.17.4.20 void DCM::DeviceControl::OutTS_PsipEitStartPid_GetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, out OutTS_PsipEitStartPidList_t *StartPidList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output TS PSIP-EIT start PID for some OutTS.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>RefTsList</i>	List of References of OutTs for which to return the start PID Settings.
out	<i>StartPidList</i>	List start PID / refTS pairs.

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist. • RefTs does not match RefPhys

Version

Release 6.0

8.17.4.21 void DCM::DeviceControl::OutTS_PsipEitStartPid_SetL (in IPS_Ref_t *RefPhys*, in OutTS_PsipEitStartPidList_t *StartPidList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output TS PSIP-EIT start PID for some OutTS.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>StartPidList</i>	List of RefTs/OutTS_PsipEitStartPid_t pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case the • RefPhys does not exist. • StartPid is not in the valid range. [0x0020 - 0x1FFF] • RefTs does not match RefPhys.

Version

Release 6.0

8.17.4.22 void DCM::DeviceControl::OutTS_PsipEttStartPid_GetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, out OutTS_PsipEttStartPidList_t *StartPidList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output TS PSIP-ETT start PID for some OutTS.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>RefTsList</i>	List of References of OutTs for which to return the start PID Settings.
out	<i>StartPidList</i>	List start PID / refTS pairs.

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist. • RefTs does not match RefPhys

Version

Release 6.5

8.17.4.23 void DCM::DeviceControl::OutTS_PsipEttStartPid_SetL (in IPS_Ref_t *RefPhys*, in OutTS_PsipEttStartPidList_t *StartPidList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output TS PSIP-ETT start PID for some OutTS.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>StartPidList</i>	List of RefTs/OutTS_PsipEttStartPid_t pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case the • RefPhys does not exist. • StartPid is not in the valid range. [0x0020 - 0x1FFF] • RefTs does not match RefPhys.

Version

Release 6.5

8.17.4.24 void DCM::DeviceControl::OutTS_PsipEttvPid_GetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, out OutTS_PsipEttvPid_List_t *PidList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Output TS PSIP-ETTV PID for some OutTS.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>RefTsList</i>	List of References of OutTs for which to return the PID Settings.
out	<i>PidList</i>	List of RefTs/PID pairs.

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist. • RefTs does not match RefPhys.

Version

Release 6.5

8.17.4.25 void DCM::DeviceControl::OutTS_PsipEttvPid_SetL (in IPS_Ref_t *RefPhys*, in OutTS_PsipEttvPid_List_t *PidList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output TS PSIP-ETTV PID for some OutTS.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>PidList</i>	List of RefTs/PID pairs.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case the • RefPhys does not exist. • Pid is not in the valid range [0x0020 - 0x1FFF]. • RefTs does not match RefPhys.

Version

Release 6.5

8.17.4.26 void DCM::DeviceControl::OutTS_SttTimeZone_GetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, out OutTS_SttTimeZone_List_t *lst*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get STT time zone for some OutTS.

The time zone is used to calculate the DST fields in the STT. The format of the time zone string is the same as for TOT. An empty string means: Follow the DCM's local time zone. The default is an empty string.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>RefTsList</i>	List of References of OutTs for which to return the STT time zone - Settings. Empty list means all OutTS attached to RefPhys.
out	<i>lst</i>	List of RefTs/time zone pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist. • RefTs does not match RefPhys.

Version

Release 6.0 (PSIP)

8.17.4.27 void DCM::DeviceControl::OutTS_SttTimeZone_SetL (in IPS_Ref_t *RefPhys*, in OutTS_SttTimeZone_List_t *lst*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set STT time zone for some OutTS.

The time zone is used to calculate the DST fields in the STT. The format of the time zone string is the same as for TOT. An empty string means: Follow the DCM's local time zone. The default is an empty string.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>lst</i>	List of RefTs / time zone pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist. • RefTs does not match RefPhys.

Version

Release 6.0 (PSIP)

8.17.4.28 void DCM::DeviceControl::SetDefault_PsipEitRegeneration (in unsigned short *Board*, in unsigned short *NbrOfTables*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default number of regenerated PSIP-EIT subtables.

Parameters

in	<i>Board</i>	specifies BoardNr.
in	<i>NbrOfTables</i>	specifies the new default. Use of PSIP_REGENERATION_FOLLOW_INPUT is allowed.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	in case NbrOfTables is not in the valid range. The valid range is equal to [0,128]

Version

release 6.0

8.17.4.29 void DCM::DeviceControl::SetDefault_PsipEitStartPid (in unsigned short *Board*, in unsigned short *StartPid*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default output PSIP-EIT start PID.

Parameters

in	<i>Board</i>	specifies BoardNr.
in	<i>StartPid</i>	specifies the new default.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	in case the given start PID is not in range for a valid PSIP-EIT start PID [0x0020 - 0x1FFF]

Version

Release 6.0

8.17.4.30 void DCM::DeviceControl::SetDefault_PsipEttRegeneration (in unsigned short *Board*, in unsigned short *NbrOfTables*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default number of regenerated PSIP-ETT subtables.

Parameters

in	<i>Board</i>	specifies BoardNr.
in	<i>NbrOfTables</i>	specifies the new default. Use of PSIP_REGENERATION_FOLLOW_INPUT is allowed.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	in case NbrOfTables is not in the valid range. The valid range is equal to [0,128]

Version

release 6.5

8.17.4.31 void DCM::DeviceControl::SetDefault_PsipEttStartPid (in unsigned short *Board*, in unsigned short *StartPid*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default output PSIP-ETT start PID.

Parameters

in	<i>Board</i>	specifies BoardNr.
in	<i>StartPid</i>	specifies the new default.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	in case the given start PID is not in range for a valid PSIP-ETT start PID [0x0020 - 0x1FFF]

Version

Release 6.5

8.17.4.32 void DCM::DeviceControl::SetDefaultOutputTsStandard (in unsigned short *Board*, in eTableStandard_t *eNew*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default output TS standard.

Parameters

in	<i>Board</i>	specifies BoardNr.
in	<i>eNew</i>	specifies the new default.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	in case eNew is not in range for a valid eTableStandard_t.

Version

release 6.0

8.17.4.33 void DCM::DeviceControl::SetDefaultPsisEttvPid (in unsigned short *Board*, in unsigned short *Pid*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default output PSIP-ETTV PID.

Parameters

in	<i>Board</i>	specifies BoardNr.
in	<i>Pid</i>	specifies the new default.

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	in case the given PID is not in range for a valid PSIP-ETTV PID [0x0020 - 0x1FFF]

Version

Release 6.5

8.17.4.34 void DCM::DeviceControl::SetGpsUtcOffset (in unsigned short *Board*, in unsigned short *Offset*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the GPS-UTC offset.

The GPS-UTC offset is the current offset in whole seconds between GPS and UTC time standards. To convert GPS time to UTC, this offset is subtracted from the GPS time. Whenever the National Bureau of Weights and Measures decides that the current offset is too far in error, an additional leap second may be added. When this happens, you should update your DCM to reflect this. The default value at the time of DCM release 6.0 is 15. This is a board level setting. To update the configuration, you have to call this function on every I/O board of the DCM.

This setting is used for generating the PSIP STT.

Parameters

in	<i>Board</i>	The Board for which to change the setting.
in	<i>Offset</i>	The new offset in seconds.

Exceptions

<i>OpNotSupported</i>	When called for main board.
-----------------------	-----------------------------

Version

Release 6.0 (PSIP)

8.17.4.35 void DCM::DeviceControl::SetPsipEitRegeneration (in IPS_RefTS_t *RefTs*, in Svc_PsipEitRegenerationInfoList_t *PsipEitRegenerationInfoList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output Service PSIP-EIT Regeneration info.

Parameters

in	<i>RefTs</i>	The Output TS the services are attached to.
in	<i>PsipEit-Regeneration-InfoList</i>	List with settings to apply

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • RefTs does not exist. • an empty list is passed. • a ServiceId is not found in the TS. • a RefSvc doesn't match RefTS • the given setting is not in the range of a valid number of regenerated PSIP-EIT tables. The valid range is equal to [0,128]

Version

Release 6.0

8.17.4.36 void DCM::DeviceControl::SetPsipEttRegeneration (in IPS_RefTS_t *RefTs*, in Svc_PsipEttRegenerationInfoList_t *PsipEttRegenerationInfoList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Output Service PSIP-ETT Regeneration info.

Parameters

in	<i>RefTs</i>	The Output TS the services are attached to.
in	<i>PsipEtt-Regeneration-InfoList</i>	List with settings to apply

Exceptions

<i>OpNotSupported</i>	when BoardNr = 0 = Main board.
<i>OpNotSucceeded</i>	In case of • RefTs does not exist. • an empty list is passed. • a ServiceId is not found in the TS. • a RefSvc doesn't match RefTS • the given setting is not in the range of a valid number of regenerated PSIP-E-TT tables. The valid range is equal to [0,128]

Version

Release 6.5

8.17.4.37 `VCT_SvcData_List_t DCM::DeviceControl::TVCT_OutputData_GetL ( in IPS_RefTS_t RefTS, in ServiceIdList_t SidList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get TVCT data (settings and input) for some output services.

Parameters

in	<i>RefTS</i>	The OutTS the services belong to.
in	<i>SidList</i>	List of ServiceId's for which to return the VCT_Data. Empty list means all Services of the TS. Invalid TS: all Services of the port. Invalid Port and TS: all services of the board.

Returns

VCT_SvcData_List_t List of Service/VCT-data pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefTs not valid or does not exist. • no ServiceId's found for in the TS.

Version

Release 6.0 (PSIP)

8.17.4.38 `void DCM::DeviceControl::TVCT_OutputData_SetL ( in IPS_RefTS_t RefTS, in VCT_SvcSetting_List_t lst )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set TVCT settings for some output services.

Parameters

in	<i>RefTS</i>	The OutTS the services belong to.
out	<i>lst</i>	List of Services with its settings. An empty list is not allowed

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefTs does not exist. • an empty list is passed. • a ServiceId is not found for in the TS. • a RefSvc doesn't match RefTS • invalid settings are given

Version

Release 6.0 (PSIP)

8.17.4.39 void DCM::DeviceControl::TVCT_ServiceLocationAddedGetL (in IPS_Ref_t *RefPhys*, in IPS_RefTS_List_t *RefTsList*, out OutTsServiceLocationAddedList_t *AddedList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get per TS whether the service location descriptor must be added per TVCT fragment.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>RefTsList</i>	List of References of OutTs for which to return the ServiceLocation-Added Settings. Empty list equals all OutTs attached to RefPhys.
out	<i>AddedList</i>	List of RefTs/boolean pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefTs does not exist or is not an output TS. • RefPhys does not exist or is not an output Port.

Version

Release 6.0 (PSIP)

8.17.4.40 void DCM::DeviceControl::TVCT_ServiceLocationAddedSetL (in IPS_Ref_t *RefPhys*, in OutTsServiceLocationAddedList_t *AddedList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set per TS whether the service location descriptor must be added per TVCT fragment.

Parameters

in	<i>RefPhys</i>	The port the OutTS are attached to.
in	<i>AddedList</i>	List of RefTs/boolean pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefPhys does not exist or is not an output Port. • RefTs does not match RefPhys or does not exist.

Version

Release 6.0 (PSIP)

8.17.4.41 *VCT_SvcInput_List_t* DCM::DeviceControl::VCT_InputData_GetL (in *IPS_RefTS_t RefTS*, in *ServiceIdList_t SidList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get VCT data for some input services.

Parameters

in	<i>RefTS</i>	The InputTS the services belong to.
in	<i>SidList</i>	List of ServiceId's for which to return the VCT_Data. Empty list: all Services of the TS. Invalid TS: all Services of the port. Invalid Port and TS: all services of the board.

Returns

VCT_SvcInput_List_t List of Service/VCT-data pairs

Exceptions

<i>OpNotSupported</i>	When called for main board.
<i>OpNotSucceeded</i>	In case of • RefTs not valid or does not exist. • no ServiceId's found in the TS.

Version

Release 6.0 (PSIP)

8.17.5 Variable Documentation

8.17.5.1 `const unsigned short DCM::DeviceControl::PSIP_REGENERATION_FOLLOW_INPUT = 0xffff`

Number of tables follows input.

Version

release 8.9

Definition at line 9300 of file DCM.idl.

8.18 Bitrate

This module contains types, enums and methods related to bitrate measurements.

Classes

- struct [DCM::DeviceControl::BitRateMeasurement_t](#)
General structure to hold bitrate measurement data.
- struct [DCM::DeviceControl::TS_BitRateMeasurement_t](#)
- struct [DCM::DeviceControl::ServiceBitRateMeasurement_t](#)
- struct [DCM::DeviceControl::TS_CompBitRateMeasurement_t](#)
- struct [DCM::DeviceControl::ServiceCompBitRateMeasurement_t](#)
- struct [DCM::DeviceControl::ServiceBitRateSample_t](#)
- struct [DCM::DeviceControl::TRBitRateSample_t](#)
- struct [DCM::DeviceControl::TR_BitRateMeasurement_t](#)

Typedefs

- typedef sequence < [TS_BitRateMeasurement_t](#) > [DCM::DeviceControl::TS_BitRateMeasurementList_t](#)
A sequence of [TS_BitRateMeasurement_t](#).
- typedef sequence < [ServiceBitRateMeasurement_t](#) > [DCM::DeviceControl::ServiceBitRateMeasurementList_t](#)
A sequence of [ServiceBitRateMeasurement_t](#).
- typedef sequence < [TS_CompBitRateMeasurement_t](#) > [DCM::DeviceControl::TS_CompBitRateMeasurementList_t](#)
A sequence of [TS_CompBitRateMeasurement_t](#).
- typedef sequence < [ServiceCompBitRateMeasurement_t](#) > [DCM::DeviceControl::ServiceCompBitRateMeasurementList_t](#)
A sequence of [ServiceCompBitRateMeasurement_t](#).
- typedef sequence< unsigned long > [DCM::DeviceControl::BitRateSampleList_t](#)
A sequence of longs.
- typedef sequence < [ServiceBitRateSample_t](#) > [DCM::DeviceControl::ServiceBitRateSampleList_t](#)
A sequence of [ServiceBitRateSample_t](#).
- typedef sequence < [TRBitRateSample_t](#) > [DCM::DeviceControl::TRBitRateSampleList_t](#)
A sequence of [TRBitRateSample_t](#).
- typedef sequence < [TR_BitRateMeasurement_t](#) > [DCM::DeviceControl::TR_BitRateMeasurementList_t](#)
A sequence of [TR_BitRateMeasurement_t](#).

Functions

- [TS_BitRateMeasurementList_t](#) [DCM::DeviceControl::MM_GetInputTS_BitRate](#) (in [IPS_RefTS_t](#) - [RefTS](#)) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the bitrate information of incoming TS.
- [TS_BitRateMeasurementList_t](#) [DCM::DeviceControl::MM_GetOutputTS_BitRate](#) (in [IPS_RefTS_t](#) - [RefTS](#)) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the bitrate information of outgoing TS.

- ServiceBitRateMeasurementList_t [DCM::DeviceControl::MM_GetInputTS_ServiceBitRate](#) (in IPS_RefTS_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the service bitrate information of incoming services.

- ServiceBitRateMeasurementList_t [DCM::DeviceControl::MM_GetOutputTS_ServiceBitRate](#) (in IPS_RefTS_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the service bitrate information of outgoing services.

- TS_CompBitRateMeasurementList_t [DCM::DeviceControl::MM_GetInputTS_ComponentBitRate](#) (in IPS_RefTS_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the component bitrate information of incoming TS's.

- TS_CompBitRateMeasurementList_t [DCM::DeviceControl::MM_GetOutputTS_ComponentBitRate](#) (in IPS_RefTS_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the component bitrate information of outgoing TS's.

- ServiceCompBitRateMeasurementList_t [DCM::DeviceControl::MM_GetInputSvcComponentBitRate](#) (in IPS_RefTS_t RefTS, in ServiceIdList_t lstServices) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the component bitrate information of incoming services.

- ServiceCompBitRateMeasurementList_t [DCM::DeviceControl::MM_GetOutputSvcComponentBitRate](#) (in IPS_RefTS_t RefTS, in ServiceIdList_t lstServices) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the component bitrate information of outgoing services.

- void [DCM::DeviceControl::MM_GetTR_GroupBitRate](#) (in IPS_Ref_t PhysRef, in unsigned long GroupID, out ServiceBitRateSampleList_t InputServiceBitRate, out ServiceBitRateSampleList_t - OutputServiceBitRate, out TRBitRateSample_t OutputGroupBitRate) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the bitrate information of transrated services.

- void [DCM::DeviceControl::MM_ResetTS_BitRate](#) (in IPS_RefTS_t RefTS, in boolean bInput) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Reset bitrate counters.

8.18.1 Detailed Description

This module contains types, enums and methods related to bitrate measurements.

8.18.2 Typedef Documentation

8.18.2.1 typedef sequence<unsigned long> DCM::DeviceControl::BitRateSampleList_t

A sequence of longs.

Note

We've abandoned the idea to add an extra timer index. By sending 150 samples each time zeroes will indicate missing measurements.

Definition at line 9835 of file DCM.idl.

8.18.2.2 typedef sequence<ServiceBitRateMeasurement_t> DCM::DeviceControl::ServiceBitRateMeasurementList_t

A sequence of [ServiceBitRateMeasurement_t](#).

Definition at line 9804 of file DCM.idl.

8.18.2.3 `typedef sequence<ServiceBitRateSample_t> DCM::DeviceControl::ServiceBitRateSampleList_t`

A sequence of [ServiceBitRateSample_t](#).

Definition at line 9844 of file DCM.idl.

8.18.2.4 `typedef sequence<ServiceCompBitRateMeasurement_t> DCM::DeviceControl::ServiceCompBitRateMeasurementList_t`

A sequence of [ServiceCompBitRateMeasurement_t](#).

Definition at line 9828 of file DCM.idl.

8.18.2.5 `typedef sequence<TR_BitRateMeasurement_t> DCM::DeviceControl::TR_BitRateMeasurementList_t`

A sequence of [TR_BitRateMeasurement_t](#).

Definition at line 9865 of file DCM.idl.

8.18.2.6 `typedef sequence<TRBitRateSample_t> DCM::DeviceControl::TRBitRateSampleList_t`

A sequence of [TRBitRateSample_t](#).

Definition at line 9854 of file DCM.idl.

8.18.2.7 `typedef sequence<TS_BitRateMeasurement_t> DCM::DeviceControl::TS_BitRateMeasurementList_t`

A sequence of [TS_BitRateMeasurement_t](#).

Definition at line 9795 of file DCM.idl.

8.18.2.8 `typedef sequence<TS_CompBitRateMeasurement_t> DCM::DeviceControl::TS_CompBitRateMeasurementList_t`

A sequence of [TS_CompBitRateMeasurement_t](#).

Definition at line 9815 of file DCM.idl.

8.18.3 Function Documentation

8.18.3.1 `ServiceCompBitRateMeasurementList_t DCM::DeviceControl::MM_GetInputSvcComponentBitRate ( in IPS_RefTS_t RefTS, in ServiceIdList_t IstServices )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the component bitrate information of incoming services.

Parameters

<code>in</code>	<i>RefTS</i>	Specifies BoardNr, PortNr & Ref to get the bitrates of.
<code>in</code>	<i>IstServices</i>	A list of service ID's. An empty list means all services.

Returns

`ServiceCompBitRateMeasurementList_t` A list of [ServiceCompBitRateMeasurement_t](#) holding the requested bitrate information.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main Board.
<i>OpNotSucceeded</i>	In case invalid PhysRef (board or port) are used.

Note

- The value 0xFFFF for PortNr and the value 0xFFFFFFFF for Ref means search all InputPorts for all TSs to find the service bitrates of the IstServices. If the IstServices is empty all input service bitrates of the board will be returned.
- The value 0xFFFF for PortNr and a valid Ref means search all InputPorts to find the TSref to get the service bitrates of the IstServices. If the IstServices is empty all input service bitrates of the TSref will be returned.
- A valid PortNr and the value 0xFFFFFFFF for Ref means search all TSs on the Port for the service bitrates of the IstServices. If the IstServices is empty all input service bitrates of the InputPort will be returned.
- In case the board and port are valid and the Ref is invalid (and != 0xFFFFFFFF) an empty list will be returned.

8.18.3.2 TS_BitRateMeasurementList_t DCM::DeviceControl::MM_GetInputTS_BitRate (in IPS_RefTS_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the bitrate information of incoming TS.

Parameters

in	RefTS	Specifies BoardNr, PortNr & Ref to get the bitrates of.
----	-------	---

Returns

TS_BitRateMeasurementList_t A list of [TS_BitRateMeasurement_t](#) holding the requested bitrate information.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main Board.
<i>OpNotSucceeded</i>	In case invalid PhysRef (board or port) are used.

Note

- The value 0xFFFF for PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all TS on all InputPorts.
- The value 0xFFFF for PortNr and a valid Ref means search all InputPorts to find the TSref to get the bitrate from.
- A valid PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all TSs on the specified InputPort.
- In case the board and port are valid and the Ref is invalid (and != 0xFFFFFFFF) an empty list will be returned.

8.18.3.3 TS_CompBitRateMeasurementList_t DCM::DeviceControl::MM_GetInputTS_Component-BitRate (in IPS_RefTS_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the component bitrate information of incoming TS's.

Parameters

in	RefTS	Specifies BoardNr, PortNr & Ref to get the bitrates of.
----	-------	---

Returns

TS_CompBitRateMeasurementList_t A list of [TS_CompBitRateMeasurement_t](#) holding the requested bitrate information.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main Board.
<i>OpNotSucceeded</i>	In case invalid PhysRef (board or port) are used.

Note

- The value 0xFFFF for PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all TScomponents of all TSs on all InputPorts.
- The value 0xFFFF for PortNr and a valid Ref means search all OutputPorts to find the TSref to get the TScomponent bitrates from.
- A valid PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all the TSComponents of all the TSs on the specified InputPort.
- In case the board and port are valid and the Ref is invalid (and != 0xFFFFFFFF) an empty list will be returned.

8.18.3.4 ServiceBitRateMeasurementList_t DCM::DeviceControl::MM_GetInputTS_ServiceBitRate (in IPS_RefTS_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the service bitrate information of incoming services.

Parameters

in	RefTS	Specifies BoardNr, PortNr & Ref to get the bitrates of.
----	-------	---

Returns

ServiceBitRateMeasurementList_t A list of [ServiceBitRateMeasurement_t](#) holding the requested bitrate information.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main Board.
<i>OpNotSucceeded</i>	In case invalid PhysRef (board or port) are used.

Note

- The value 0xFFFF for PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all services of all TSs on all InputPorts.
- The value 0xFFFF for PortNr and a valid Ref means search all InputPorts to find the TSref to get the service bitrates from.
- A valid PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all the services of all the TSs on the specified InputPort.
- In case the board and port are valid and the Ref is invalid (and != 0xFFFFFFFF) an empty list will be returned.

8.18.3.5 ServiceCompBitRateMeasurementList_t DCM::DeviceControl::MM_GetOutputSvc-ComponentBitRate (in IPS_RefTS_t *RefTS*, in ServiceIdList_t *lstServices*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the component bitrate information of outgoing services.

Parameters

in	<i>RefTS</i>	Specifies BoardNr, PortNr & Ref to get the bitrates of.
in	<i>lstServices</i>	A list of service ID's. An empty list means all services.

Returns

ServiceCompBitRateMeasurementList_t A list of [ServiceCompBitRateMeasurement_t](#) holding the requested bitrate information.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main Board.
<i>OpNotSucceeded</i>	In case invalid PhysRef (board or port) are used.

Note

- The value 0xFFFF for PortNr and the value 0xFFFFFFFF for Ref means search all OutputPorts for all TSs to find the service bitrates of the lstServices. If the lstServices is empty all output service bitrates of the board will be returned.
- The value 0xFFFF for PortNr and a valid Ref means search all OutputPorts to find the TSref to get the service bitrates of the lstServices. If the lstServices is empty all output service bitrates of the TSref will be returned.
- A valid PortNr and the value 0xFFFFFFFF for Ref means search all TSs on the Port for the service bitrates of the lstServices. If the lstServices is empty all output service bitrates of the OutputPort will be returned.
- In case the board and port are valid and the Ref is invalid (and != 0xFFFFFFFF) an empty list will be returned.

8.18.3.6 TS_BitRateMeasurementList_t DCM::DeviceControl::MM_GetOutputTS_BitRate (in IPS_RefTS_t *RefTS*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the bitrate information of outgoing TS.

Parameters

in	<i>RefTS</i>	Specifies BoardNr, PortNr & Ref to get the bitrates of.
----	--------------	---

Returns

TS_BitRateMeasurementList_t A list of [TS_BitRateMeasurement_t](#) holding the requested bitrate information.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main Board.
<i>OpNotSucceeded</i>	In case invalid PhysRef (board or port) are used.

Note

- The value 0xFFFF for PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all TS on all OutputPorts.
- The value 0xFFFF for PortNr and a valid Ref means search all OutputPorts to find the TSref to get the bitrate from.
- A valid PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all TSs on the specified OutputPort.
- In case the board and port are valid and the Ref is invalid (and != 0xFFFFFFFF) an empty list will be returned.

8.18.3.7 TS_CompBitRateMeasurementList_t DCM::DeviceControl::MM_GetOutputTS_Component-BitRate (in IPS_RefTS_t *RefTS*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the component bitrate information of outgoing TS's.

Parameters

in	<i>RefTS</i>	Specifies BoardNr, PortNr & Ref to get the bitrates of.
----	--------------	---

Returns

TS_CompBitRateMeasurementList_t A list of [TS_CompBitRateMeasurement_t](#) holding the requested bitrate information.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main Board.
<i>OpNotSucceeded</i>	In case invalid PhysRef (board or port) are used.

Note

- The value 0xFFFF for PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all TScomponents of all TSs on all OutputPorts.
- The value 0xFFFF for PortNr and a valid Ref means search all OutputPorts to find the TSref to get the TScomponent bitrates from.

- A valid PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all the TSComponents of all the TSs on the specified OutputPort.
- In case the board and port are valid and the Ref is invalid (and != 0xFFFFFFFF) an empty list will be returned.

8.18.3.8 ServiceBitRateMeasurementList_t DCM::DeviceControl::MM_GetOutputTS_ServiceBitRate (in IPS_RefTS_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the service bitrate information of outgoing services.

Parameters

in	RefTS	Specifies BoardNr, PortNr & Ref to get the bitrates of.
----	-------	---

Returns

ServiceBitRateMeasurementList_t A list of [ServiceBitRateMeasurement_t](#) holding the requested bitrate information.

Exceptions

OpNotSupported	When BoardNr = 0 = Main Board.
OpNotSucceeded	In case invalid PhysRef (board or port) are used.

Note

- The value 0xFFFF for PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all services of all TSs on all OutputPorts.
- The value 0xFFFF for PortNr and a valid Ref means search all OutputPorts to find the TSref to get the service bitrates from.
- A valid PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all the services of all the TSs on the specified OutputPort.
- In case the board and port are valid and the Ref is invalid (and != 0xFFFFFFFF) an empty list will be returned.

8.18.3.9 void DCM::DeviceControl::MM_GetTR_GroupBitRate (in IPS_Ref_t PhysRef, in unsigned long GroupID, out ServiceBitRateSampleList_t InputServiceBitRate, out ServiceBitRateSampleList_t OutputServiceBitRate, out TRBitRateSample_t OutputGroupBitRate) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the bitrate information of transrated services.

Parameters

in	PhysRef	Specifies BoardNr, PortNr to get the bitrates of.
in	GroupID	Specifies which the group the PIDs belong to.
in	InputServiceBitRate	
in	OutputServiceBitRate	
in	OutputGroupBitRate	

Returns

InputServiceBitRate Requested input (before transrating) Service bitrate information.
 OutputServiceBitRate Requested output (after transrating) Service bitrate information.
 OutputGroupBitRate Requested output (after transrating) Transrater group bitrate information.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main Board.
<i>OpNotSucceeded</i>	In case invalid PhysRef (BoardNr PortNr) is used.

Note

- In case the GroupID is Invalid empty lists are returned.

8.18.3.10 void DCM::DeviceControl::MM_ResetTS_BitRate (in IPS_RefTS_t *RefTS*, in boolean *bInput*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Reset bitrate counters.

Parameters

in	<i>RefTS</i>	Specifies BoardNr, PortNr & Ref to reset the bitrates of.
in	<i>bInput</i>	Specifies the input(true) or output(false) TS.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main Board.
<i>OpNotSucceeded</i>	In case invalid PhysRef (board or port) are used.

Note

- There are two types of bitrate reset: 1. Reset the current values per (In or Output)TS (TS, - Services and Pids) and not the history. How to activate: BoardNr = valid, PortNr = valid, Ref = valid, bInput = valid.
- 2. Reset the complete bitratemodule of the board (Input and Output) including history. How to activate: BoardNr = valid, PortNr = 0xFFFF or = valid and the RefTS.Ref = 0xFFFFFFFF. bInput has no influence.

8.19 Clip Library

This contains specific types, enums and methods for the clip library (used by slate and logo insertion)

Classes

- struct [DCM::DeviceControl::SlateData_t](#)

Typedefs

- typedef unsigned long [DCM::DeviceControl::ClipID_t](#)
- typedef sequence< ClipID_t > [DCM::DeviceControl::ClipID_List_t](#)
- typedef sequence< SlateData_t > [DCM::DeviceControl::SlateDataList_t](#)

Functions

- void [DCM::DeviceControl::SlateLibrary_Add](#) (in unsigned short BoardNr, in string Description, in ByteStream Clip) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Add a slate clip to the clip library.
- void [DCM::DeviceControl::SlateLibrary_SetDataL](#) (in unsigned short BoardNr, in SlateDataList_t SlateDataL) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Set the data for a slate clip in the clip library.
- void [DCM::DeviceControl::SlateLibrary_GetDataL](#) (in unsigned short BoardNr, out SlateDataList_t SlateDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get details about all slate clips in the library.
- void [DCM::DeviceControl::SlateLibrary_DeleteL](#) (in unsigned short BoardNr, in ClipID_List_t - SlateID_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Remove a slate clip from the clip library.

8.19.1 Detailed Description

This contains specific types, enums and methods for the clip library (used by slate and logo insertion)

8.19.2 Typedef Documentation

8.19.2.1 typedef sequence<ClipID_t> DCM::DeviceControl::ClipID_List_t

Definition at line 10076 of file DCM.idl.

8.19.2.2 typedef unsigned long DCM::DeviceControl::ClipID_t

Definition at line 10075 of file DCM.idl.

8.19.2.3 typedef sequence<SlateData_t> DCM::DeviceControl::SlateDataList_t

Definition at line 10087 of file DCM.idl.

8.19.3 Function Documentation

8.19.3.1 void DCM::DeviceControl::SlateLibrary_Add (in unsigned short *BoardNr*, in string *Description*, in ByteStream *Clip*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a slate clip to the clip library.

Parameters

in	<i>BoardNr</i>	The board on which to add the clip.
in	<i>Description</i>	A description of the clip.
in	<i>Clip</i>	The clip data.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main
<i>OpNotSucceeded</i>	in case : - the Clip is not a valid clip. - No more entries available (maximum 512 clips in the library)

Version

Release 7.5

8.19.3.2 void DCM::DeviceControl::SlateLibrary_DeleteL (in unsigned short *BoardNr*, in ClipID_List_t *SlateID_List*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove a slate clip from the clip library.

Parameters

in	<i>BoardNr</i>	The board on which to remove the clip.
in	<i>SlateID_List</i>	A list of ClipID_t's of the clips to be deleted.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main
<i>OpNotSucceeded</i>	If the ClipID doesn't exist or the clip is still in use.

Version

Release 7.5

8.19.3.3 void DCM::DeviceControl::SlateLibrary_GetDataL (in unsigned short *BoardNr*, out SlateDataList_t *SlateDataList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get details about all slate clips in the library.

Parameters

in	<i>BoardNr</i>	The board on which to get the clip details.
out	<i>SlateDataList</i>	The list with data of all slate clips.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main
<i>OpNotSucceeded</i>	If the ClipID doesn't exist

Version

Release 7.5

8.19.3.4 void DCM::DeviceControl::SlateLibrary_SetDataL (in unsigned short *BoardNr*,
in SlateDataList_t *SlateDataL*) raises (TimeOut, OpNotSucceeded, OpNotAllowed,
OpNotSupported)

Set the data for a slate clip in the clip library.

Parameters

in	<i>BoardNr</i>	The board on which to set the clip data
in	<i>SlateDataL</i>	A list of ClipData.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main
<i>OpNotSucceeded</i>	if ClipID in SlateData_t is not a valid clip id.

Note

Only the Description of the clip can be changed.

Version

Release 7.5

8.20 Transcoder

This contains specific types, enums and methods for controlling the transcoder part of the device.

Classes

- struct `DCM::DeviceControl::TC_CaptionInfo_t`
Configuration settings for a Closed Caption Service.
- struct `DCM::DeviceControl::TC_BoardCfg_t`
- struct `DCM::DeviceControl::TC_PossibleBoardCfg_t`
- struct `DCM::DeviceControl::TC_BoardCfg_V2_t`
Structure to set/get transcoder board configuration.
- struct `DCM::DeviceControl::TC_PossibleBoardCfg_V2_t`
Structure to get possible board configurations for a transcoder board.
- struct `DCM::DeviceControl::EsEntry_t`
- struct `DCM::DeviceControl::SelectionListEntry_t`
- struct `DCM::DeviceControl::TC_Question_t`
- struct `DCM::DeviceControl::TC_DependantQuestion_t`
- struct `DCM::DeviceControl::TC_ServiceTrackingID_t`
- struct `DCM::DeviceControl::TC_VideoEncodeSettings_t`
Video encode settings.
- struct `DCM::DeviceControl::TC_VideoDecode_t`
Video decode settings together with fields identifying the video component they're for.
- struct `DCM::DeviceControl::TC_VideoEncode_t`
Video encode settings together with field identifying the video component they're for.
- struct `DCM::DeviceControl::TC_VideoSettings_t`
Video transcode settings.
- struct `DCM::DeviceControl::TC_VideoResolution_t`
- struct `DCM::DeviceControl::TC_VideoStatus_t`
- struct `DCM::DeviceControl::TC_Video_t`
Video transcode settings together with fields identifying the video component they're for.
- struct `DCM::DeviceControl::TC_VideoInformation_t`
- struct `DCM::DeviceControl::TC_PipSettings_t`
- struct `DCM::DeviceControl::TC_Pip_t`
- struct `DCM::DeviceControl::TC_AudioSettings_t`
- struct `DCM::DeviceControl::TC_AudioStatus_t`
- struct `DCM::DeviceControl::TC_Audio_t`
- struct `DCM::DeviceControl::TC_AudioInformation_t`
- struct `DCM::DeviceControl::TC_ServiceCfg_t`
- struct `DCM::DeviceControl::TC_VideoDecodeCfg_t`
- struct `DCM::DeviceControl::TC_VideoEncodeCfg_t`
- struct `DCM::DeviceControl::TC_VideoCfg_t`
- struct `DCM::DeviceControl::TC_VideoServiceInformation_t`
- struct `DCM::DeviceControl::TC_PipCfg_t`
- struct `DCM::DeviceControl::TC_AudioCfg_t`
- struct `DCM::DeviceControl::TC_AudioServiceInformation_t`
- struct `DCM::DeviceControl::TC_Component_t`
- struct `DCM::DeviceControl::TC_ServiceComponents_t`
- struct `DCM::DeviceControl::TC_ES_CaptionInfo_t`

Configuration settings for the Caption Service Descriptor of an ES.

- struct [DCM::DeviceControl::TC_Svc_CaptionInfo_t](#)

Configuration settings for the Caption Service Descriptor(s) of a service.

Typedefs

- typedef sequence < TC_CaptionInfo_t > [DCM::DeviceControl::TC_CaptionInfoList_t](#)
- typedef sequence < TC_PossibleBoardCfg_t > [DCM::DeviceControl::TC_PossibleBoardCfgList_t](#)
- typedef sequence < TC_PossibleBoardCfg_V2_t > [DCM::DeviceControl::TC_PossibleBoardCfgList_V2_t](#)
- typedef sequence< EsEntry_t > [DCM::DeviceControl::EsList_t](#)
- typedef unsigned long [DCM::DeviceControl::SelectionId_t](#)
- typedef sequence< SelectionId_t > [DCM::DeviceControl::SelectionIdList_t](#)
- typedef sequence < SelectionListEntry_t > [DCM::DeviceControl::SelectionList_t](#)
- typedef sequence< TC_Question_t > [DCM::DeviceControl::TC_QuestionList_t](#)
- typedef sequence < TC_DependantQuestion_t > [DCM::DeviceControl::TC_DependantQuestionList_t](#)
- typedef unsigned long [DCM::DeviceControl::TrackingID_t](#)
- typedef sequence< TrackingID_t > [DCM::DeviceControl::TrackingID_List_t](#)
- typedef sequence < TC_ServiceTrackingID_t > [DCM::DeviceControl::TC_ServiceTrackingID_List_t](#)
- typedef sequence < TC_VideoDecode_t > [DCM::DeviceControl::TC_VideoDecodeList_t](#)
- typedef sequence < TC_VideoEncode_t > [DCM::DeviceControl::TC_VideoEncodeList_t](#)
- typedef sequence< TC_Video_t > [DCM::DeviceControl::TC_VideoList_t](#)
- typedef sequence < TC_VideoInformation_t > [DCM::DeviceControl::TC_VideoInformationList_t](#)
- typedef sequence< TC_Pip_t > [DCM::DeviceControl::TC_PipList_t](#)
- typedef sequence< TC_Audio_t > [DCM::DeviceControl::TC_AudioList_t](#)
- typedef sequence < TC_AudioInformation_t > [DCM::DeviceControl::TC_AudioInformationList_t](#)
- typedef sequence< TC_ServiceCfg_t > [DCM::DeviceControl::TC_ServiceCfgList_t](#)
- typedef sequence < TC_VideoDecodeCfg_t > [DCM::DeviceControl::TC_VideoDecodeCfgList_t](#)
- typedef sequence < TC_VideoEncodeCfg_t > [DCM::DeviceControl::TC_VideoEncodeCfgList_t](#)
- typedef sequence< TC_VideoCfg_t > [DCM::DeviceControl::TC_VideoCfgList_t](#)
- typedef sequence < TC_VideoServiceInformation_t > [DCM::DeviceControl::TC_VideoServiceInformationList_t](#)
- typedef sequence< TC_PipCfg_t > [DCM::DeviceControl::TC_PipCfgList_t](#)
- typedef sequence< TC_AudioCfg_t > [DCM::DeviceControl::TC_AudioCfgList_t](#)
- typedef sequence < TC_AudioServiceInformation_t > [DCM::DeviceControl::TC_AudioServiceInformationList_t](#)
- typedef sequence< TC_Component_t > [DCM::DeviceControl::TC_ComponentList_t](#)
- typedef sequence < TC_ServiceComponents_t > [DCM::DeviceControl::TC_ServiceComponentsList_t](#)
- typedef sequence < TC_ES_CaptionInfo_t > [DCM::DeviceControl::TC_ES_CaptionInfoList_t](#)
- typedef sequence < TC_Svc_CaptionInfo_t > [DCM::DeviceControl::TC_Svc_CaptionInfoList_t](#)

Enumerations

- enum `DCM::DeviceControl::enTC_CaptionDescriptorMode_t` { `DCM::DeviceControl::eTC_CaptionDescriptorMode_AutoMode`, `DCM::DeviceControl::eTC_CaptionDescriptorMode_AddMode`, `DCM::DeviceControl::eTC_CaptionDescriptorMode_NoneMode`, `DCM::DeviceControl::eTC_CaptionDescriptorMode_Reserved1`, `DCM::DeviceControl::eTC_CaptionDescriptorMode_Reserved2`, `DCM::DeviceControl::eTC_CaptionDescriptorMode_Reserved3` }
- Defines different modes for the Caption Service Descriptor.*
- enum `DCM::DeviceControl::enTC_Profile_t` { `DCM::DeviceControl::eTC_Profile_Main`, `DCM::DeviceControl::eTC_Profile_High` }
- enum `DCM::DeviceControl::enTC_VBR_Quality_t` { `DCM::DeviceControl::eTC_VBR_Best`, `DCM::DeviceControl::eTC_VBR_Low_Valleys`, `DCM::DeviceControl::eTC_VBR_Moderate_Valleys`, `DCM::DeviceControl::eTC_VBR_Aggressive_Valleys`, `DCM::DeviceControl::eTC_VBR_Very_Aggressive_Valleys` }
- enum `DCM::DeviceControl::enTC_EncodingMode_t` { `DCM::DeviceControl::eTC_EncodingMode_VBR`, `DCM::DeviceControl::eTC_EncodingMode_CBR` }
- enum `DCM::DeviceControl::enTC_ClosedCaptionMode_t` { `DCM::DeviceControl::eTC_ClosedCaptionMode_Disabled`, `DCM::DeviceControl::eTC_ClosedCaptionMode_Transcode`, `DCM::DeviceControl::eTC_ClosedCaptionMode_TestPattern_1`, `DCM::DeviceControl::eTC_ClosedCaptionMode_TestPattern_2`, `DCM::DeviceControl::eTC_ClosedCaptionMode_TestPattern_1_2` }
- enum `DCM::DeviceControl::enTC_ClosedCaptionFormat_t` { `DCM::DeviceControl::eTC_ClosedCaptionFormat_None`, `DCM::DeviceControl::eTC_ClosedCaptionFormat_SA_Type_4`, `DCM::DeviceControl::eTC_ClosedCaptionFormat_SCTE20`, `DCM::DeviceControl::eTC_ClosedCaptionFormat_EAI708` }
- enum `DCM::DeviceControl::enTC_PipResolution_t` { `DCM::DeviceControl::eTC_PipResolution_96_96`, `DCM::DeviceControl::eTC_PipResolution_SQCIF`, `DCM::DeviceControl::eTC_PipResolution_QCIF`, `DCM::DeviceControl::eTC_PipResolution_192_192`, `DCM::DeviceControl::eTC_PipResolution_Reserved_1`, `DCM::DeviceControl::eTC_PipResolution_Reserved_2`, `DCM::DeviceControl::eTC_PipResolution_Reserved_3`, `DCM::DeviceControl::eTC_PipResolution_Reserved_4` }
- enum `DCM::DeviceControl::enTC_TemporalNoiseShaping_t` { `DCM::DeviceControl::eTC_TNS_Disabled`, `DCM::DeviceControl::eTC_TNS_Enabled` }
- enum `DCM::DeviceControl::enTC_SpectralBandReplication_t` { `DCM::DeviceControl::eTC_SBR_Disabled`, `DCM::DeviceControl::eTC_SBR_Enabled` }
- enum `DCM::DeviceControl::enTC_PerceptualNoiseSubstitution_t` { `DCM::DeviceControl::eTC_PNS_Disabled`, `DCM::DeviceControl::eTC_PNS_Enabled` }
- enum `DCM::DeviceControl::enTC_TransportPacketizationMode_t` { `DCM::DeviceControl::eTC_TPM_ADTS`, `DCM::DeviceControl::eTC_TPM_LOAS`, `DCM::DeviceControl::eTC_TPM_ADIF`, `DCM::DeviceControl::eTC_TPM_RAW` }
- enum `DCM::DeviceControl::enTC_AudioSampleRate_t` { `DCM::DeviceControl::eTC_AudioSampleRate_Auto`, `DCM::DeviceControl::eTC_AudioSampleRate_16KHz`, `DCM::DeviceControl::eTC_AudioSampleRate_32KHz`, `DCM::DeviceControl::eTC_AudioSampleRate_44_1KHz`, `DCM::DeviceControl::eTC_AudioSampleRate_48KHz` }
- enum `DCM::DeviceControl::enTC_AudioMode_t` { `DCM::DeviceControl::eTC_AudioMode_Mono`, `DCM::DeviceControl::eTC_AudioMode_Stereo`, `DCM::DeviceControl::eTC_AudioMode_DualMono`, `DCM::DeviceControl::eTC_AudioMode_Left_Right_Center`, `DCM::DeviceControl::eTC_AudioMode_Left_Right_Surround`, `DCM::DeviceControl::eTC_AudioMode_Left_Right_Center_Surround`, `DCM::DeviceControl::eTC_AudioMode_Left_Right_SurroundLeft_SurroundRight`, `DCM::DeviceControl::eTC_AudioMode_Left_Right_Center_SurroundLeft_SurroundRight` }
- enum `DCM::DeviceControl::enTC_MaximumBitrateDescriptorMode_t` { `DCM::DeviceControl::eTC_MaximumBitrateDescriptorMode_Passthrough`, `DCM::DeviceControl::eTC_MaximumBitrateDescriptorMode_Generate` }

Functions

- void [DCM::DeviceControl::TC_GetBoardCfg](#) (in unsigned short BoardNr, out TC_BoardCfg_t - BoardCfg) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current configuration of the transcoder.

- void [DCM::DeviceControl::TC_GetBoardCfg_V2](#) (in unsigned short BoardNr, out TC_BoardCfg_V2_t BoardCfg) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current configuration of the transcoder.

- void [DCM::DeviceControl::TC_GetPossibleBoardCfgL](#) (in unsigned short BoardNr, out TC_PossibleBoardCfgList_t BoardCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of all board configurations whether they can be applied or not.

- void [DCM::DeviceControl::TC_GetPossibleBoardCfgL_V2](#) (in unsigned short BoardNr, out TC_PossibleBoardCfgList_V2_t BoardCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of all board configurations whether they can be applied or not.

- void [DCM::DeviceControl::TC_SetBoardCfg](#) (in unsigned short SlotNbr, in TC_BoardCfg_t BoardCfg) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Apply a new Board Configuration on a Transcoder board.

- void [DCM::DeviceControl::TC_SetBoardCfg_V2](#) (in unsigned short SlotNbr, in TC_BoardCfg_V2_t BoardCfg) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Apply a new Board Configuration on a Transcoder board.

- void [DCM::DeviceControl::TC_ServiceComponentsGetL](#) (in unsigned short BoardNr, in IPS_ServiceList_t ServiceList, out TC_ServiceComponentsList_t ServiceComponentsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of components which can be transcoded.

- void [DCM::DeviceControl::TC_ServiceCfgGetL](#) (in unsigned short BoardNr, in IPS_ServiceList_t ServiceList, out TC_ServiceCfgList_t ServiceCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the transcoder service settings.

- void [DCM::DeviceControl::TC_ServiceCfgSetL](#) (in unsigned short BoardNr, in TC_ServiceCfgList_t ServiceCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update the transcoder service settings.

- void [DCM::DeviceControl::TC_VideoCfgGetL](#) (in unsigned short BoardNr, in IPS_ServiceList_t ServiceList, out TC_VideoCfgList_t VideoCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the video transcoding settings.

- void [DCM::DeviceControl::TC_VideoCfgSetL](#) (in unsigned short BoardNr, in TC_VideoCfgList_t VideoCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the video transcoding settings.

- void [DCM::DeviceControl::TC_VideoCfgDeleteL](#) (in unsigned short BoardNr, in TC_ServiceTrackingID_List_t ToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove video transcoding settings.

- void [DCM::DeviceControl::TC_PipCfgGetL](#) (in unsigned short BoardNr, in IPS_ServiceList_t ServiceList, out TC_PipCfgList_t PipCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the PIP transcoding settings.

- void [DCM::DeviceControl::TC_PipCfgSetL](#) (in unsigned short BoardNr, in TC_PipCfgList_t PipCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the PIP transcoding settings.

- void **DCM::DeviceControl::TC_PipCfgDeleteL** (in unsigned short BoardNr, in TC_ServiceTrackingID_List_t ToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove PIP transcoding settings.

- void **DCM::DeviceControl::TC_VideoInformationGetL** (in unsigned short BoardNr, in IPS_Service_List_t ServiceList, out TC_VideoServiceInformationList_t VideoInfoList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get video status information.

- void **DCM::DeviceControl::TC_AudioCfgGetL** (in unsigned short BoardNr, in IPS_Service_List_t ServiceList, out TC_AudioCfgList_t AudioCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the audio transcoding settings.

- void **DCM::DeviceControl::TC_AudioCfgSetL** (in unsigned short BoardNr, in TC_AudioCfgList_t AudioCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the audio transcoding settings.

- void **DCM::DeviceControl::TC_AudioCfgDeleteL** (in unsigned short BoardNr, in TC_ServiceTrackingID_List_t ToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove audio transcoding settings.

- void **DCM::DeviceControl::TC_AudioInformationGetL** (in unsigned short BoardNr, in IPS_Service_List_t ServiceList, out TC_AudioServiceInformationList_t AudioInfoList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get audio status information.

- ServiceBitRateMeasurementList_t **DCM::DeviceControl::MM_GetTC_ServiceBitRate** (in IPS_RefTS_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the service bitrate information of transcoded services.

- ServiceCompBitRateMeasurementList_t **DCM::DeviceControl::MM_GetTC_SvcComponentBitRate** (in IPS_RefTS_t RefTS, in ServiceIdList_t lstServices) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the component bitrate information of transcoded services.

- void **DCM::DeviceControl::TC_CaptionServiceCfgSetL** (in unsigned short BoardNr, in TC_Svc_CaptionInfoList_t Svc_CaptionInfoList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the transcoder caption service settings.

- void **DCM::DeviceControl::TC_CaptionServiceCfgGetL** (in unsigned short BoardNr, in IPS_Service_List_t ServiceList, out TC_Svc_CaptionInfoList_t Svc_CaptionInfoList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the transcoder caption service settings.

- void **DCM::DeviceControl::TC_VideoDecodeCfgSetL** (in unsigned short BoardNr, in TC_VideoDecodeCfgList_t VideoDecodeCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the video decoding settings.

- void **DCM::DeviceControl::TC_VideoDecodeCfgGetL** (in unsigned short BoardNr, in IPS_Service_List_t ServiceList, out TC_VideoDecodeCfgList_t VideoDecodeCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the video decoding settings.

- void **DCM::DeviceControl::TC_VideoDecodeCfgDeleteL** (in unsigned short BoardNr, in TC_ServiceTrackingID_List_t ToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove the video decoding settings.

- void **DCM::DeviceControl::TC_VideoEncodeCfgSetL** (in unsigned short BoardNr, in TC_VideoEncodeCfgList_t VideoEncodeCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)
Set the video encoding settings.
- void **DCM::DeviceControl::TC_VideoEncodeCfgGetL** (in unsigned short BoardNr, in IPS_ServiceList_t ServiceList, out TC_VideoEncodeCfgList_t VideoEncodeCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
Get the video encoding settings.
- void **DCM::DeviceControl::TC_VideoEncodeCfgDeleteL** (in unsigned short BoardNr, in TC_ServiceTrackingID_List_t ToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove the video encoding settings.

8.20.1 Detailed Description

This contains specific types, enums and methods for controlling the transcoder part of the device.

8.20.2 Typedef Documentation

8.20.2.1 typedef sequence<EsEntry_t> DCM::DeviceControl::EsList_t

Definition at line 12873 of file DCM.idl.

8.20.2.2 typedef unsigned long DCM::DeviceControl::SelectionId_t

Definition at line 12875 of file DCM.idl.

8.20.2.3 typedef sequence<SelectionId_t> DCM::DeviceControl::SelectionIdList_t

Definition at line 12876 of file DCM.idl.

8.20.2.4 typedef sequence<SelectionListEntry_t> DCM::DeviceControl::SelectionList_t

Definition at line 12884 of file DCM.idl.

8.20.2.5 typedef sequence<TC_AudioCfg_t> DCM::DeviceControl::TC_AudioCfgList_t

Definition at line 13221 of file DCM.idl.

8.20.2.6 typedef sequence<TC_AudioInformation_t> DCM::DeviceControl::TC_AudioInformationList_t

Definition at line 13162 of file DCM.idl.

8.20.2.7 typedef sequence<TC_Audio_t> DCM::DeviceControl::TC_AudioList_t

Definition at line 13155 of file DCM.idl.

8.20.2.8 typedef sequence<TC_AudioServiceInformation_t> DCM::DeviceControl::TC_AudioServiceInformationList_t

Definition at line 13228 of file DCM.idl.

8.20.2.9 `typedef sequence<TC_CaptionInfo_t> DCM::DeviceControl::TC_CaptionInfoList_t`

Definition at line 10180 of file DCM.idl.

8.20.2.10 `typedef sequence<TC_Component_t> DCM::DeviceControl::TC_ComponentList_t`

Definition at line 13235 of file DCM.idl.

8.20.2.11 `typedef sequence<TC_DependantQuestion_t> DCM::DeviceControl::TC_Dependant-
QuestionList_t`

Definition at line 12898 of file DCM.idl.

8.20.2.12 `typedef sequence<TC_ES_CaptionInfo_t> DCM::DeviceControl::TC_ES_CaptionInfoList_t`

Definition at line 13254 of file DCM.idl.

8.20.2.13 `typedef sequence<TC_PipCfg_t> DCM::DeviceControl::TC_PipCfgList_t`

Definition at line 13214 of file DCM.idl.

8.20.2.14 `typedef sequence<TC_Pip_t> DCM::DeviceControl::TC_PipList_t`

Definition at line 13127 of file DCM.idl.

8.20.2.15 `typedef sequence<TC_PossibleBoardCfg_t> DCM::DeviceControl::TC_PossibleBoardCfg-
List_t`

Definition at line 12843 of file DCM.idl.

8.20.2.16 `typedef sequence<TC_PossibleBoardCfg_V2_t> DCM::DeviceControl::TC_PossibleBoard-
CfgList_V2_t`

Definition at line 12865 of file DCM.idl.

8.20.2.17 `typedef sequence<TC_Question_t> DCM::DeviceControl::TC_QuestionList_t`

Definition at line 12891 of file DCM.idl.

8.20.2.18 `typedef sequence<TC_ServiceCfg_t> DCM::DeviceControl::TC_ServiceCfgList_t`

Definition at line 13179 of file DCM.idl.

8.20.2.19 `typedef sequence<TC_ServiceComponents_t> DCM::DeviceControl::TC_Service-
ComponentsList_t`

Definition at line 13243 of file DCM.idl.

8.20.2.20 `typedef sequence<TC_ServiceTrackingID_t> DCM::DeviceControl::TC_ServiceTrackingID-
_List_t`

Definition at line 13005 of file DCM.idl.

8.20.2.21 `typedef sequence<TC_Svc_CaptionInfo_t> DCM::DeviceControl::TC_Svc_CaptionInfo-
List_t`

Definition at line 13263 of file DCM.idl.

8.20.2.22 `typedef sequence<TC_VideoCfg_t> DCM::DeviceControl::TC_VideoCfgList_t`

Definition at line 13200 of file DCM.idl.

8.20.2.23 `typedef sequence<TC_VideoDecodeCfg_t> DCM::DeviceControl::TC_VideoDecodeCfgList_t`

Definition at line 13186 of file DCM.idl.

8.20.2.24 `typedef sequence<TC_VideoDecode_t> DCM::DeviceControl::TC_VideoDecodeList_t`

Definition at line 13039 of file DCM.idl.

8.20.2.25 `typedef sequence<TC_VideoEncodeCfg_t> DCM::DeviceControl::TC_VideoEncodeCfgList_t`

Definition at line 13193 of file DCM.idl.

8.20.2.26 `typedef sequence<TC_VideoEncode_t> DCM::DeviceControl::TC_VideoEncodeList_t`

Definition at line 13050 of file DCM.idl.

8.20.2.27 `typedef sequence<TC_VideoInformation_t> DCM::DeviceControl::TC_VideoInformationList_t`

Definition at line 13106 of file DCM.idl.

8.20.2.28 `typedef sequence<TC_Video_t> DCM::DeviceControl::TC_VideoList_t`

Definition at line 13099 of file DCM.idl.

8.20.2.29 `typedef sequence<TC_VideoServiceInformation_t> DCM::DeviceControl::TC_VideoServiceInformationList_t`

Definition at line 13207 of file DCM.idl.

8.20.2.30 `typedef sequence<TrackingID_t> DCM::DeviceControl::TrackingID_List_t`

Definition at line 12998 of file DCM.idl.

8.20.2.31 `typedef unsigned long DCM::DeviceControl::TrackingID_t`

Definition at line 12997 of file DCM.idl.

8.20.3 Enumeration Type Documentation

8.20.3.1 `enum DCM::DeviceControl::enTC_AudioMode_t`

Enumerator:

eTC_AudioMode_Mono 1/0

eTC_AudioMode_Stereo 2/0

eTC_AudioMode_DualMono 1+1

eTC_AudioMode_Left_Right_Center 3/0

eTC_AudioMode_Left_Right_Surround 2/1

eTC_AudioMode_Left_Right_Center_Surround 3/1
eTC_AudioMode_Left_Right_SurroundLeft_SurroundRight 2/2
eTC_AudioMode_Left_Right_Center_SurroundLeft_SurroundRight 3/2

Definition at line 12985 of file DCM.idl.

8.20.3.2 enum DCM::DeviceControl::enTC_AudioSampleRate_t

Enumerator:

eTC_AudioSampleRate_Auto Follow input sample rate.
eTC_AudioSampleRate_16KHz
eTC_AudioSampleRate_32KHz
eTC_AudioSampleRate_44_1KHz 44.1 KHz
eTC_AudioSampleRate_48KHz

Definition at line 12976 of file DCM.idl.

8.20.3.3 enum DCM::DeviceControl::enTC_CaptionDescriptorMode_t

Defines different modes for the Caption Service Descriptor.

Enumerator:

eTC_CaptionDescriptorMode_AutoMode The Caption Service Descriptor will be passed to the output if present at the input. (factory default)
eTC_CaptionDescriptorMode_AddMode The Caption Service Descriptor is generated based on the input of the user.
eTC_CaptionDescriptorMode_NoneMode The Caption Service Descriptor will not be present at the output, even if present at the input.
eTC_CaptionDescriptorMode_Reserved1 future use undefined
eTC_CaptionDescriptorMode_Reserved2 future use undefined
eTC_CaptionDescriptorMode_Reserved3 future use undefined

Definition at line 10159 of file DCM.idl.

8.20.3.4 enum DCM::DeviceControl::enTC_ClosedCaptionFormat_t

Enumerator:

eTC_ClosedCaptionFormat_None Input contains no closed captions.
eTC_ClosedCaptionFormat_SA_Type_4
eTC_ClosedCaptionFormat_SCTE20
eTC_ClosedCaptionFormat_EAI708

Definition at line 12930 of file DCM.idl.

8.20.3.5 enum DCM::DeviceControl::enTC_ClosedCaptionMode_t

Enumerator:

eTC_ClosedCaptionMode_Disabled No closed captions in output.
eTC_ClosedCaptionMode_Transcode Transcode to CEA 708.
eTC_ClosedCaptionMode_TestPattern_1 Test pattern for field 1.
eTC_ClosedCaptionMode_TestPattern_2 Test pattern for field 2.
eTC_ClosedCaptionMode_TestPattern_1_2 Not supported.

Definition at line 12921 of file DCM.idl.

8.20.3.6 enum DCM::DeviceControl::enTC_EncodingMode_t

Enumerator:

eTC_EncodingMode_VBR
eTC_EncodingMode_CBR

Definition at line 12915 of file DCM.idl.

8.20.3.7 enum DCM::DeviceControl::enTC_MaximumBitrateDescriptorMode_t

Enumerator:

eTC_MaximumBitrateDescriptorMode_Passthrough Use the input descriptor (default value)
eTC_MaximumBitrateDescriptorMode_Generate An ES level maximum bitrate descriptor will be generated that matches the bitrate after transcoding. Any service level descriptor is passed through.

Definition at line 13164 of file DCM.idl.

8.20.3.8 enum DCM::DeviceControl::enTC_PerceptualNoiseSubstitution_t

Enumerator:

eTC_PNS_Disabled
eTC_PNS_Enabled

Definition at line 12962 of file DCM.idl.

8.20.3.9 enum DCM::DeviceControl::enTC_PipResolution_t

Enumerator:

eTC_PipResolution_96_96 96 * 96
eTC_PipResolution_SQCIF 128 * 96
eTC_PipResolution_QCIF 176 * 144
eTC_PipResolution_192_192 192 * 192
eTC_PipResolution_Reserved_1 future use, undefined
eTC_PipResolution_Reserved_2 future use, undefined
eTC_PipResolution_Reserved_3 future use, undefined
eTC_PipResolution_Reserved_4 future use, undefined

Definition at line 12938 of file DCM.idl.

8.20.3.10 enum DCM::DeviceControl::enTC_Profile_t

Enumerator:

eTC_Profile_Main
eTC_Profile_High

Definition at line 12900 of file DCM.idl.

8.20.3.11 enum DCM::DeviceControl::enTC_SpectralBandReplication_t

Enumerator:

eTC_SBR_Disabled HE-AAC.
eTC_SBR_Enabled AAC-LC.

Definition at line 12956 of file DCM.idl.

8.20.3.12 enum DCM::DeviceControl::enTC_TemporalNoiseShaping_t

Enumerator:

eTC_TNS_Disabled
eTC_TNS_Enabled

Definition at line 12950 of file DCM.idl.

8.20.3.13 enum DCM::DeviceControl::enTC_TransportPacketizationMode_t

Enumerator:

eTC_TPM_ADTS
eTC_TPM_LOAS Supported from V07.05 onwards.
eTC_TPM_ADIF Debug only.
eTC_TPM_RAW Debug only.

Definition at line 12968 of file DCM.idl.

8.20.3.14 enum DCM::DeviceControl::enTC_VBR_Quality_t

Enumerator:

eTC_VBR_Best
eTC_VBR_Low_Valleys
eTC_VBR_Moderate_Valleys
eTC_VBR_Aggressive_Valleys
eTC_VBR_Very_Aggressive_Valleys

Definition at line 12906 of file DCM.idl.

8.20.4 Function Documentation**8.20.4.1 ServiceBitRateMeasurementList_t DCM::DeviceControl::MM_GetTC_ServiceBitRate (in IPS_RefTS_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Get the service bitrate information of transcoded services.

Parameters

in	<i>RefTS</i>	Specifies BoardNr, PortNr & Ref to get the bitrates of.
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Returns

ServiceBitRateMeasurementList_t A list of [ServiceBitRateMeasurement_t](#) holding the requested bitrate information.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case invalid PhysRef (board or port) are used.

Note

- The value 0xFFFF for PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all services on a transcoder board.
- The value 0xFFFF for PortNr and a valid Ref means get the bitrate information of a single service on a transcoder board.

Version

Release 7.5

8.20.4.2 ServiceCompBitRateMeasurementList_t DCM::DeviceControl::MM_GetTC_SvcComponent-BitRate (in IPS_RefTS_t *RefTS*, in ServiceIdList_t *lstServices*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the component bitrate information of transcoded services.

Parameters

in	<i>RefTS</i>	Specifies BoardNr, PortNr & Ref to get the bitrates of.
in	<i>lstServices</i>	A list of service ID's. An empty list means all services.

Returns

ServiceCompBitRateMeasurementList_t A list of [ServiceCompBitRateMeasurement_t](#) holding the requested bitrate information.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case invalid PhysRef (board or port) are used.

Note

- The value 0xFFFF for PortNr and the value 0xFFFFFFFF for Ref means get the bitrate information of all services on a transcoder board.
- The value 0xFFFF for PortNr and a valid Ref means get the bitrate information of a single service on a transcoder board.

Version

Release 7.5

8.20.4.3 void DCM::DeviceControl::TC_AudioCfgDeleteL (in unsigned short *BoardNr*, in TC_ServiceTrackingID_List_t *ToDelete*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove audio transcoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board for which to configure transcoding.
in	<i>ToDelete</i>	A list of IDs for audio settings to delete

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: • invalid input references are used (RefSvc, TrackingID).

Version

Release 7.5

8.20.4.4 void DCM::DeviceControl::TC_AudioCfgGetL (in unsigned short *BoardNr*, in IPS_Service_List_t *ServiceList*, out TC_AudioCfgList_t *AudioCfgList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the audio transcoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from.
in	<i>ServiceList</i>	The list of services of interest.
out	<i>AudioCfgList</i>	A list of audio transcoding settings.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: • invalid input references are used (Ref, RefPid).

Version

Release 7.5

8.20.4.5 void DCM::DeviceControl::TC_AudioCfgSetL (in unsigned short *BoardNr*, in TC_AudioCfgList_t *AudioCfgList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the audio transcoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board for which to configure transcoding.
in	<i>AudioCfgList</i>	A list of audio transcoding settings.

Note

Only streamtype tracking is supported.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: • invalid input references are used (RefSvc). • invalid settings are passed: – bitrate too high/low – ... • There are no more transcoding resources available

Version

Release 7.5

8.20.4.6 void DCM::DeviceControl::TC_AudioInformationGetL (in unsigned short *BoardNr*, in IPS_Service_List_t *ServiceList*, out TC_AudioServiceInformationList_t *AudioInfoList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get audio status information.

Information is only available on audio streams which are currently being transcoded.

Parameters

in	<i>BoardNr</i>	The transcoder board for which to configure transcoding.
in	<i>ServiceList</i>	The list of services of interest.
out	<i>AudioInfoList</i>	The status of the audio streams.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: invalid input references are used (RefSvc, TrackingID).

Version

Release 7.5

8.20.4.7 void DCM::DeviceControl::TC_CaptionServiceCfgGetL (in unsigned short *BoardNr*, in IPS_Service_List_t *ServiceList*, out TC_Svc_CaptionInfoList_t *Svc_CaptionInfoList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the transcoder caption service settings.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from.
in	<i>ServiceList</i>	The list of services of interest.
out	<i>Svc_Caption-InfoList</i>	A list of caption service settings.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: invalid input references are used.

Version

Release 7.5

8.20.4.8 void DCM::DeviceControl::TC_CaptionServiceCfgSetL (in unsigned short *BoardNr*, in TC_Svc_CaptionInfoList_t *Svc_CaptionInfoList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the transcoder caption service settings.

Parameters

in	<i>BoardNr</i>	The transcoder board on which to apply the settings.
in	<i>Svc_Caption-InfoList</i>	A list of caption service settings,

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: • invalid input references are used. • invalid settings were passed.

Version

Release 7.5

8.20.4.9 void DCM::DeviceControl::TC_GetBoardCfg (in unsigned short *BoardNr*, out TC_BoardCfg_t *BoardCfg*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current configuration of the transcoder.

This configuration determines how many SD, HD or audio streams the transcoder board can handle.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from.
out	<i>BoardCfg</i>	The transcoder board configuration.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	in case: • the number of PIP slots in the current configuration is different from 0: PIP slots are not supported by this function. Use TC_GetBoardCfg_V2() instead.

Version

Release 7.5

8.20.4.10 void DCM::DeviceControl::TC_GetBoardCfg_V2 (in unsigned short *BoardNr*, out TC_BoardCfg_V2_t *BoardCfg*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current configuration of the transcoder.

This configuration determines how many SD, HD, audio and PIP streams the transcoder board can handle.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from.
out	<i>BoardCfg</i>	The transcoder board configuration.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
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Version

Release 8.1

8.20.4.11 void DCM::DeviceControl::TC_GetPossibleBoardCfgL (in unsigned short *BoardNr*,
out TC_PossibleBoardCfgList_t *BoardCfgList*) raises (TimeOut, OpNotSucceeded,
OpNotAllowed, OpNotSupported)

Get a list of all board configurations whether they can be applied or not.

A board configuration can be applied if it has at least as many slots as there are configured transcodes for each type.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from.
out	<i>BoardCfgList</i>	A list of all board configurations.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
-----------------------	---

Version

Release 7.5

8.20.4.12 void DCM::DeviceControl::TC_GetPossibleBoardCfgL_V2 (in unsigned short *BoardNr*,
out TC_PossibleBoardCfgList_V2_t *BoardCfgList*) raises (TimeOut, OpNotSucceeded,
OpNotAllowed, OpNotSupported)

Get a list of all board configurations whether they can be applied or not.

A board configuration can be applied if it has at least as many slots as there are configured transcodes for each type.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from.
out	<i>BoardCfgList</i>	A list of all board configurations.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
-----------------------	---

Version

Release 8.1

8.20.4.13 void DCM::DeviceControl::TC_PipCfgDeleteL (in unsigned short *BoardNr*, in
TC_ServiceTrackingID_List_t *ToDelete*) raises (TimeOut, OpNotSucceeded, OpNotAllowed,
OpNotSupported)

Remove PIP transcoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board for which to configure transcoding.
in	<i>ToDelete</i>	A list of IDs for PIP settings to delete

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: invalid input references are used (RefSvc, TrackingID).

Version

Release 8.1

8.20.4.14 void DCM::DeviceControl::TC_PipCfgGetL (in unsigned short *BoardNr*, in IPS_Service_List_t *ServiceList*, out TC_PipCfgList_t *PipCfgList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the PIP transcoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from.
in	<i>ServiceList</i>	The list of services of interest.
out	<i>PipCfgList</i>	A list of PIP transcoding settings.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: invalid input references are used (Ref, RefPid).

Version

Release 8.1

8.20.4.15 void DCM::DeviceControl::TC_PipCfgSetL (in unsigned short *BoardNr*, in TC_PipCfgList_t *PipCfgList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the PIP transcoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board for which to configure transcoding.
in	<i>PipCfgList</i>	A list of PIP transcoding settings.

Note

The TrackingID of the PIP must always correspond to one of the following tracking ID's:

- a tracking ID of a video decode configured with TC_VideoDecodeCfgSetL(..). Then it is possible to configure PIP without a video encode. This option is supported since release 8.2 and is the preferred way.
- a tracking ID of a video transcode configured with TC_VideoCfgSetL(..). Then it is not possible to configure PIP without a video transcode. This option should be avoided.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: • invalid input references are used (RefSvc). • invalid settings are passed: – bitrate too high/low – ... • There are no more transcoding resources available

Version

Release 8.1

8.20.4.16 void DCM::DeviceControl::TC_ServiceCfgGetL (in unsigned short *BoardNr*, in IPS_Service_List_t *ServiceList*, out TC_ServiceCfgList_t *ServiceCfgList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the transcoder service settings.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from.
in	<i>ServiceList</i>	The list of services of interest.
out	<i>ServiceCfgList</i>	A list of transcoder service settings.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: • invalid input references are used.

Version

Release 7.5

8.20.4.17 void DCM::DeviceControl::TC_ServiceCfgSetL (in unsigned short *BoardNr*, in TC_ServiceCfgList_t *ServiceCfgList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update the transcoder service settings.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from.
in	<i>ServiceCfgList</i>	A list of transcoder service settings.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: - invalid input references are used. - invalid settings were passed.

Version

Release 7.5

8.20.4.18 void DCM::DeviceControl::TC_ServiceComponentsGetL (in unsigned short *BoardNr*, in IPS_Service_List_t *ServiceList*, out TC_ServiceComponentsList_t *ServiceComponentsList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of components which can be transcoded.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from.
in	<i>ServiceList</i>	The list of services of interest.
out	<i>Service-Components-List</i>	The list of components per service

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: invalid input references are used (ServiceList).

Version

Release 7.5

8.20.4.19 void DCM::DeviceControl::TC_SetBoardCfg (in unsigned short *SlotNbr*, in TC_BoardCfg_t *BoardCfg*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Apply a new Board Configuration on a Transcoder board.

This can cause interruptions in some or all transcoded streams.

Parameters

in	<i>SlotNbr</i>	The slotnumber for the affected board
in	<i>BoardCfg</i>	The new board configuration that the user likes to apply

Exceptions

<i>OpNotSucceeded</i>	- Impossible board configuration - Impossible to set mode without deleting audio or video components first
-----------------------	---

Version

Release 7.5

8.20.4.20 void DCM::DeviceControl::TC_SetBoardCfg_V2 (in unsigned short *SlotNbr*, in TC_BoardCfg_V2_t *BoardCfg*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Apply a new Board Configuration on a Transcoder board.

This can cause interruptions in some or all transcoded streams.

Parameters

in	<i>SlotNbr</i>	The slotnumber for the affected board
in	<i>BoardCfg</i>	The new board configuration that the user likes to apply

Exceptions

<i>OpNotSucceeded</i>	- Impossible board configuration - Impossible to set mode without deleting audio or video components first
-----------------------	---

Version

Release 8.1

8.20.4.21 void DCM::DeviceControl::TC_VideoCfgDeleteL (in unsigned short *BoardNr*, in TC_ServiceTrackingID_List_t *ToDelete*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove video transcoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board for which to configure transcoding.
in	<i>ToDelete</i>	A list of IDs for video settings to delete

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: invalid input references are used (RefSvc, TrackingID).

Deprecated Use TC_VideoDecodeCfgDeleteL(..) and TC_VideoEncodeCfgDeleteL(..) instead.

Version

Release 7.5

8.20.4.22 void DCM::DeviceControl::TC_VideoCfgGetL (in unsigned short *BoardNr*, in IPS_Service_List_t *ServiceList*, out TC_VideoCfgList_t *VideoCfgList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the video transcoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from.
in	<i>ServiceList</i>	The list of services of interest.
out	<i>VideoCfgList</i>	A list of video transcoding settings.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: invalid input references are used (Ref, RefPid).

Deprecated Use TC_VideoDecodeCfgGetL(..) and TC_VideoEncodeCfgGetL(..) instead.

Version

Release 7.5

8.20.4.23 void DCM::DeviceControl::TC_VideoCfgSetL (in unsigned short *BoardNr*, in TC_VideoCfgList_t *VideoCfgList*) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the video transcoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board for which to configure transcoding.
in	<i>VideoCfgList</i>	A list of video transcoding settings.

Note

Only streamtype tracking is supported.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: • invalid input references are used (RefSvc). • invalid settings are passed: – bitrate too high/low – ... • There are no more transcoding resources available

Deprecated Use TC_VideoDecodeCfgSetL(..) and TC_VideoEncodeCfgSetL(..) instead.

Version

Release 7.5

8.20.4.24 void DCM::DeviceControl::TC_VideoDecodeCfgDeleteL (in unsigned short *BoardNr*, in TC_ServiceTrackingID_List_t *ToDelete*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove the video decoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board for which to configure decoding
in	<i>ToDelete</i>	A list of IDs for video decoding settings to delete

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: • invalid input references are used (RefSvc, TrackingID).

Version

Release 8.2

8.20.4.25 void DCM::DeviceControl::TC_VideoDecodeCfgGetL (in unsigned short *BoardNr*, in IPS_Service_List_t *ServiceList*, out TC_VideoDecodeCfgList_t *VideoDecodeCfgList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the video decoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from
in	<i>ServiceList</i>	The list of services of interest.
out	<i>VideoDecode-CfgList</i>	The video decoding settings

Version

Release 8.2

8.20.4.26 void DCM::DeviceControl::TC_VideoDecodeCfgSetL (in unsigned short *BoardNr*, in TC_VideoDecodeCfgList_t *VideoDecodeCfgList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the video decoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board for which to configure decoding
in	<i>VideoDecode-CfgList</i>	The video decoding settings

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	in case: • invalid input references are used (RefSvc) • there are no more transcoding resources available

Version

Release 8.2

8.20.4.27 void DCM::DeviceControl::TC_VideoEncodeCfgDeleteL (in unsigned short *BoardNr*, in TC_ServiceTrackingID_List_t *ToDelete*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove the video encoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board for which to configure encoding
in	<i>ToDelete</i>	A list of IDs for video encoding settings to delete

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: • invalid input references are used (RefSvc, TrackingID).

Version

Release 8.2

8.20.4.28 void DCM::DeviceControl::TC_VideoEncodeCfgGetL (in unsigned short *BoardNr*, in IPS_Service_List_t *ServiceList*, out TC_VideoEncodeCfgList_t *VideoEncodeCfgList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the video encoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board to retrieve the settings from
in	<i>ServiceList</i>	The list of services of interest.
out	<i>VideoEncode- CfgList</i>	The video encoding settings

Version

Release 8.2

8.20.4.29 void DCM::DeviceControl::TC_VideoEncodeCfgSetL (in unsigned short *BoardNr*, in TC_VideoEncodeCfgList_t *VideoEncodeCfgList*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the video encoding settings.

Parameters

in	<i>BoardNr</i>	The transcoder board for which to configure encoding
in	<i>VideoEncode- CfgList</i>	The video encoding settings

Note

The TrackingID must always correspond to a video decode tracking ID configured with VideoDecode-CfgSetL(..). *

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	in case: - invalid input references are used (RefSvc) - no video decode was configured

Version

Release 8.2

8.20.4.30 void DCM::DeviceControl::TC_VideoInformationGetL (in unsigned short *BoardNr*, in IPS_Service_List_t *ServiceList*, out TC_VideoServiceInformationList_t *VideoInfoList*)
raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get video status information.

Information is only available for video streams which are currently being transcoded.

Parameters

in	<i>BoardNr</i>	The transcoder board for which to configure transcoding.
in	<i>ServiceList</i>	The list of services of interest.
out	<i>VideoInfoList</i>	The status of the video streams.

Exceptions

<i>OpNotSupported</i>	When BoardNr = 0 = Main or the board is not a transcoder board.
<i>OpNotSucceeded</i>	In case: • invalid input references are used (RefSvc, TrackingID).

Version

Release 7.5

8.21 Multi format processor (MFP)

This contains specific types, enums and methods for controlling the MFP part of the device.

Classes

- struct [DCM::DeviceControl::MFPB_BoardCfg_t](#)
Structure to set/get transcoder board configuration.
- struct [DCM::DeviceControl::ResourcesLoad_t](#)
Resource loads.
- struct [DCM::DeviceControl::RefProcessorEngineUnit_t](#)
Identify a processing engine unit of a processor board.
- struct [DCM::DeviceControl::MFPB_EngineUnitCfg_t](#)
- struct [DCM::DeviceControl::MFPB_ServiceCfg_t](#)
- struct [DCM::DeviceControl::MFPB_MPEG2FramePicturesCfg_t](#)
- struct [DCM::DeviceControl::MFPB_ServiceTrackingID_t](#)
- struct [DCM::DeviceControl::MFPB_Component_t](#)
- struct [DCM::DeviceControl::MFPB_ServiceComponents_t](#)
- struct [DCM::DeviceControl::MFPB_VideoResolution_t](#)
- struct [DCM::DeviceControl::MFPB_VideoStatus_t](#)
- struct [DCM::DeviceControl::MFPB_VideoInformation_t](#)
- struct [DCM::DeviceControl::MFPB_VideoServiceInformation_t](#)
- struct [DCM::DeviceControl::MFPB_VideoDecode_t](#)
Video decode settings together with fields identifying the video component they're for.
- struct [DCM::DeviceControl::MFPB_VideoDecodeCfg_t](#)
- struct [DCM::DeviceControl::MFPB_VideoEncoderTemplate_t](#)
- struct [DCM::DeviceControl::MFPB_VideoEncodeSettings_t](#)
Video encode settings.
- struct [DCM::DeviceControl::MFPB_VideoEncode_t](#)
Video encode settings together with field identifying the video component they're for.
- struct [DCM::DeviceControl::MFPB_VideoEncodeCfg_t](#)
- struct [DCM::DeviceControl::MFPB_MultiResABR_t](#)
Note: it is required that FragmentLength and SegmentLength are a multiple of one another.
- struct [DCM::DeviceControl::MFPB_VideoEncodeSettingsV2_t](#)
Video encode settings.
- struct [DCM::DeviceControl::MFPB_VideoEncodeV2_t](#)
Video encode settings together with field identifying the video component they're for.
- struct [DCM::DeviceControl::MFPB_VideoEncodeCfgV2_t](#)
- struct [DCM::DeviceControl::MFPB_MultiResVideoEncodeSettings_t](#)
MultiResolution Video encode settings.
- struct [DCM::DeviceControl::MFPB_MultiResVideoEncode_t](#)
MultiRes video encode settings together with field identifying the video component they're for.
- struct [DCM::DeviceControl::MFPB_MultiResVideoEncodeCfg_t](#)
- struct [DCM::DeviceControl::MFPB_AudioStatus_t](#)
- struct [DCM::DeviceControl::MFPB_AudioInformation_t](#)
- struct [DCM::DeviceControl::MFPB_AudioServiceInformation_t](#)
- struct [DCM::DeviceControl::MFPB_AudioDecode_t](#)
Audio decode settings together with fields identifying the Audio component they're for.

- struct [DCM::DeviceControl::MFPB_AudioDecodeCfg_t](#)
- struct [DCM::DeviceControl::MFPB_AudioEncodeSettings_t](#)
Audio encode settings.
- struct [DCM::DeviceControl::MFPB_AudioEncode_t](#)
Audio encode settings together with field identifying the Audio component they're for.
- struct [DCM::DeviceControl::MFPB_AudioEncodeCfg_t](#)
- struct [DCM::DeviceControl::MFPB_MPEGL2_AudioSettings_t](#)
MPEG1-L2 audio processing settings.
- struct [DCM::DeviceControl::MFPB_MPEGL2AudioCfg_t](#)
Configuration settings for the MPEG1-L2 audio settings of a service.
- struct [DCM::DeviceControl::MFPB_AAC_AudioSettings_t](#)
AAC audio processing settings.
- struct [DCM::DeviceControl::MFPB_AacAudioCfg_t](#)
Configuration settings for the AAC audio settings of a service.
- struct [DCM::DeviceControl::MFPB_Dolby_AudioSettings_t](#)
Dolby audio processing settings.
- struct [DCM::DeviceControl::MFPB_DolbyAudioCfg_t](#)
Configuration settings for the Dolby audio settings of a service.
- struct [DCM::DeviceControl::MFPB_Dolby_AudioSettings_V2_t](#)
Dolby audio processing settings.
- struct [DCM::DeviceControl::MFPB_DolbyAudioCfg_V2_t](#)
Configuration settings for the Dolby audio settings of a service.
- struct [DCM::DeviceControl::MFPB_AudioDecodeExtraMPEGL2Settings_t](#)
Extra MPEG1-L2 decoder settings per audio ES.
- struct [DCM::DeviceControl::MFPB_AudioDecodeExtraMPEGL2Cfg_t](#)
Configuration for extra MPEG1-L2 decoder settings per service.
- struct [DCM::DeviceControl::MFPB_AudioDecodeExtraAACSettings_t](#)
Extra AAC decoder settings per audio ES.
- struct [DCM::DeviceControl::MFPB_AudioDecodeExtraAACCfg_t](#)
Configuration for extra AAC decoder settings per service.
- struct [DCM::DeviceControl::MFPB_AudioDecodeExtraDolbySettings_t](#)
Extra Dolby decoder settings per audio ES.
- struct [DCM::DeviceControl::MFPB_AudioDecodeExtraDolbyCfg_t](#)
Configuration for extra Dolby decoder settings per service.
- struct [DCM::DeviceControl::MFPB_ES_CaptionInfo_t](#)
Configuration settings for the Caption Service Descriptor of an ES.
- struct [DCM::DeviceControl::MFPB_Svc_CaptionInfo_t](#)
Configuration settings for the Caption Service Descriptor(s) of a service.
- struct [DCM::DeviceControl::MFPB_DD_MetaStatus_t](#)
Dolby meta data status for a specific component.
- struct [DCM::DeviceControl::MFPB_DD_MetaDecStatus_t](#)
Dolby meta data status on the decoder side for a specific component.
- struct [DCM::DeviceControl::MFPB_ServiceDD_MetaDecStatus_t](#)
Dolby meta data status on the decoder side for a specific service.
- struct [DCM::DeviceControl::MFPB_MetaDataCfg_t](#)
audio meta data settings for a specific component.
- struct [DCM::DeviceControl::MFPB_ServiceMetaDataCfg_t](#)
audio meta data settings for a specific service.

Typedefs

- typedef sequence < ResourcesLoad_t > [DCM::DeviceControl::ResourcesLoad_List_t](#)
- typedef sequence < RefProcessorEngineUnit_t > [DCM::DeviceControl::RefProcessorEngineUnitList_t](#)

Description of engine unit types (underlying hardware) for Multi format processor (MFP) boards.

- typedef sequence < MFPB_EngineUnitCfg_t > [DCM::DeviceControl::MFPB_EngineUnitCfgList_t](#)

Description of the slot type a service belongs to.

- typedef sequence < MFPB_ServiceCfg_t > [DCM::DeviceControl::MFPB_ServiceCfgList_t](#)
- typedef sequence < MFPB_MPEG2FramePicturesCfg_t > [DCM::DeviceControl::MFPB_MPEG2FramePicturesCfgList_t](#)
- typedef unsigned long [DCM::DeviceControl::MFPB_TrackingID_t](#)
- typedef sequence < MFPB_TrackingID_t > [DCM::DeviceControl::MFPB_TrackingID_List_t](#)
- typedef sequence < MFPB_ServiceTrackingID_t > [DCM::DeviceControl::MFPB_ServiceTrackingID_List_t](#)
- typedef sequence < MFPB_Component_t > [DCM::DeviceControl::MFPB_ComponentList_t](#)
- typedef sequence < MFPB_ServiceComponents_t > [DCM::DeviceControl::MFPB_ServiceComponentsList_t](#)
- typedef sequence < MFPB_VideoInformation_t > [DCM::DeviceControl::MFPB_VideoInformationList_t](#)
- typedef sequence < MFPB_VideoServiceInformation_t > [DCM::DeviceControl::MFPB_VideoServiceInformationList_t](#)
- typedef sequence < MFPB_VideoDecode_t > [DCM::DeviceControl::MFPB_VideoDecodeList_t](#)
- typedef sequence < MFPB_VideoDecodeCfg_t > [DCM::DeviceControl::MFPB_VideoDecodeCfgList_t](#)
- typedef sequence < MFPB_VideoEncode_t > [DCM::DeviceControl::MFPB_VideoEncodeList_t](#)
- typedef sequence < MFPB_VideoEncodeCfg_t > [DCM::DeviceControl::MFPB_VideoEncodeCfgList_t](#)
- typedef sequence < MFPB_MultiResABR_t > [DCM::DeviceControl::MFPB_MultiResABR_List_t](#)
- typedef sequence < MFPB_VideoEncodeV2_t > [DCM::DeviceControl::MFPB_VideoEncodeV2List_t](#)
- typedef sequence < MFPB_VideoEncodeCfgV2_t > [DCM::DeviceControl::MFPB_VideoEncodeCfgV2List_t](#)
- typedef sequence < MFPB_MultiResVideoEncode_t > [DCM::DeviceControl::MFPB_MultiResVideoEncodeList_t](#)
- typedef sequence < MFPB_MultiResVideoEncodeCfg_t > [DCM::DeviceControl::MFPB_MultiResVideoEncodeCfgList_t](#)
- typedef sequence < MFPB_AudioInformation_t > [DCM::DeviceControl::MFPB_AudioInformationList_t](#)
- typedef sequence < MFPB_AudioServiceInformation_t > [DCM::DeviceControl::MFPB_AudioServiceInformationList_t](#)
- typedef sequence < MFPB_AudioDecode_t > [DCM::DeviceControl::MFPB_AudioDecodeList_t](#)
- typedef sequence < MFPB_AudioDecodeCfg_t > [DCM::DeviceControl::MFPB_AudioDecodeCfgList_t](#)
- typedef sequence < MFPB_AudioEncode_t > [DCM::DeviceControl::MFPB_AudioEncodeList_t](#)
- typedef sequence < MFPB_AudioEncodeCfg_t > [DCM::DeviceControl::MFPB_AudioEncodeCfgList_t](#)
- typedef sequence < MFPB_MPEGL2_AudioSettings_t > [DCM::DeviceControl::MFPB_MPEGL2_AudioSettingsList_t](#)

- typedef sequence < MFPB_MPEGL2AudioCfg_t > [DCM::DeviceControl::MFPB_MPEGL2AudioCfgList_t](#)
- typedef sequence < MFPB_AAC_AudioSettings_t > [DCM::DeviceControl::MFPB_AAC_AudioSettingsList_t](#)
- typedef sequence < MFPB_AacAudioCfg_t > [DCM::DeviceControl::MFPB_AacAudioCfgList_t](#)
- typedef sequence < MFPB_Dolby_AudioSettings_t > [DCM::DeviceControl::MFPB_Dolby_AudioSettingsList_t](#)
- typedef sequence < MFPB_DolbyAudioCfg_t > [DCM::DeviceControl::MFPB_DolbyAudioCfgList_t](#)
- typedef sequence < MFPB_Dolby_AudioSettings_V2_t > [DCM::DeviceControl::MFPB_Dolby_AudioSettingsList_V2_t](#)
- typedef sequence < MFPB_DolbyAudioCfg_V2_t > [DCM::DeviceControl::MFPB_DolbyAudioCfgList_V2_t](#)
- typedef sequence < MFPB_AudioDecodeExtraMPEGL2Settings_t > [DCM::DeviceControl::MFPB_B_AudioDecodeExtraMPEGL2SettingsList_t](#)
- typedef sequence < MFPB_AudioDecodeExtraMPEGL2Cfg_t > [DCM::DeviceControl::MFPB_AudioDecodeExtraMPEGL2CfgList_t](#)
- typedef sequence < MFPB_AudioDecodeExtraAACSettings_t > [DCM::DeviceControl::MFPB_AudioDecodeExtraAACSettingsList_t](#)
- typedef sequence < MFPB_AudioDecodeExtraAACCfg_t > [DCM::DeviceControl::AudioDecodeExtraAACCfgList_t](#)
- typedef sequence < MFPB_AudioDecodeExtraDolbySettings_t > [DCM::DeviceControl::MFPB_AudioDecodeExtraDolbySettingsList_t](#)
- typedef sequence < MFPB_AudioDecodeExtraDolbyCfg_t > [DCM::DeviceControl::MFPB_AudioDecodeExtraDolbyCfgList_t](#)
- typedef sequence < MFPB_ES_CaptionInfo_t > [DCM::DeviceControl::MFPB_ES_CaptionInfoList_t](#)
- typedef sequence < MFPB_Svc_CaptionInfo_t > [DCM::DeviceControl::MFPB_Svc_CaptionInfoList_t](#)
- typedef sequence < MFPB_DD_MetaDecStatus_t > [DCM::DeviceControl::MFPB_DD_MetaDecStatusList_t](#)
- typedef sequence < MFPB_ServiceDD_MetaDecStatus_t > [DCM::DeviceControl::MFPB_ServiceDD_MetaDecStatusList_t](#)
- typedef sequence < MFPB_MetaDataCfg_t > [DCM::DeviceControl::MFPB_MetaDataCfgList_t](#)
- typedef sequence < MFPB_ServiceMetaDataCfg_t > [DCM::DeviceControl::MFPB_ServiceMetaDataCfgList_t](#)

Enumerations

- enum [DCM::DeviceControl::enMFPB_AudioProcessingMode_t](#) { [DCM::DeviceControl::eMFPB_AudioProcessingMode_Disable](#), [DCM::DeviceControl::eMFPB_AudioProcessingMode_Enable](#), [DCM::DeviceControl::eMFPB_AudioProcessingMode_Reserved3](#), [DCM::DeviceControl::eMFPB_AudioProcessingMode_Reserved4](#), [DCM::DeviceControl::eMFPB_AudioProcessingMode_Reserved5](#), [DCM::DeviceControl::eMFPB_AudioProcessingMode_Reserved6](#), [DCM::DeviceControl::eMFPB_AudioProcessingMode_Reserved7](#), [DCM::DeviceControl::eMFPB_AudioProcessingMode_Reserved8](#) }
- enum [DCM::DeviceControl::enMFPB_Resources](#) { [DCM::DeviceControl::eMFPB_Res_Audio](#), [DCM::DeviceControl::eMFPB_Res_Reserved1](#), [DCM::DeviceControl::eMFPB_Res_Reserved2](#), [DCM::DeviceControl::eMFPB_Res_Reserved3](#), [DCM::DeviceControl::eMFPB_Res_Reserved4](#), [DCM::DeviceControl::eMFPB_Res_Reserved5](#), [DCM::DeviceControl::eMFPB_Res_Reserved6](#), [DCM::DeviceControl::eMFPB_Res_Reserved7](#), [DCM::DeviceControl::eMFPB_Res_Reserved8](#), [DCM::DeviceControl::eMFPB_Res_Reserved9](#) }

Types of MFP resources.

- `enum DCM::DeviceControl::enMFPB_EngineUnitType_t { DCM::DeviceControl::eMFPB_EngineUnitType_VideoAudio, DCM::DeviceControl::eMFPB_EngineUnitType_AudioOnly, DCM::DeviceControl::eMFPB_EngineUnitType_Reserved1, DCM::DeviceControl::eMFPB_EngineUnitType_Reserved2, DCM::DeviceControl::eMFPB_EngineUnitType_Reserved3, DCM::DeviceControl::eMFPB_EngineUnitType_Reserved4, DCM::DeviceControl::eMFPB_EngineUnitType_Reserved5, DCM::DeviceControl::eMFPB_EngineUnitType_Reserved6 }`
- `enum DCM::DeviceControl::enMFPB_EngineUnitMode_t { DCM::DeviceControl::eMFPB_EngineUnitMode_SD_Transprocess, DCM::DeviceControl::eMFPB_EngineUnitMode_HD_Transprocess, DCM::DeviceControl::eMFPB_EngineUnitMode_SD_HD_Transprocess, DCM::DeviceControl::eMFPB_EngineUnitMode_SD_Splice, DCM::DeviceControl::eMFPB_EngineUnitMode_HD_Splice, DCM::DeviceControl::eMFPB_EngineUnitMode_AudioOnly, DCM::DeviceControl::eMFPB_EngineUnitMode_MultiRes, DCM::DeviceControl::eMFPB_EngineUnitMode_Reserved7, DCM::DeviceControl::eMFPB_EngineUnitMode_Reserved8, DCM::DeviceControl::eMFPB_EngineUnitMode_Reserved9, DCM::DeviceControl::eMFPB_EngineUnitMode_Reserved10, DCM::DeviceControl::eMFPB_EngineUnitMode_Reserved11, DCM::DeviceControl::eMFPB_EngineUnitMode_Reserved12, DCM::DeviceControl::eMFPB_EngineUnitMode_Reserved13, DCM::DeviceControl::eMFPB_EngineUnitMode_Reserved14, DCM::DeviceControl::eMFPB_EngineUnitMode_Reserved15 }`
- `enum DCM::DeviceControl::enMFPB_SlotType_t { DCM::DeviceControl::eMFPB_SlotType_SD, DCM::DeviceControl::eMFPB_SlotType_HD, DCM::DeviceControl::eMFPB_SlotType_AudioOnly, DCM::DeviceControl::eMFPB_SlotType_MultiRes, DCM::DeviceControl::eMFPB_SlotType_Reserved5, DCM::DeviceControl::eMFPB_SlotType_Reserved6, DCM::DeviceControl::eMFPB_SlotType_Reserved7, DCM::DeviceControl::eMFPB_SlotType_Reserved8 }`
- `enum DCM::DeviceControl::enMFPB_AdaptSI_t { DCM::DeviceControl::eMFPB_AdaptSI_Disabled, DCM::DeviceControl::eMFPB_AdaptSI_DVB, DCM::DeviceControl::eMFPB_AdaptSI_ATSC, DCM::DeviceControl::eMFPB_AdaptSI_DC2 }`
- `enum DCM::DeviceControl::enMFPB_MaxBitrateDescrMode_t { DCM::DeviceControl::eMFPB_MaxBitrateDescrMode_Passthrough, DCM::DeviceControl::eMFPB_MaxBitrateDescrMode_Generate }`
- `enum DCM::DeviceControl::enMFPB_ClosedCaptionFormat_t { DCM::DeviceControl::eMFPB_ClosedCaptionFormat_None, DCM::DeviceControl::eMFPB_ClosedCaptionFormat_SA_Type_4, DCM::DeviceControl::eMFPB_ClosedCaptionFormat_SCTE20, DCM::DeviceControl::eMFPB_ClosedCaptionFormat_EAI708, DCM::DeviceControl::eMFPB_ClosedCaptionFormat_Unkown, DCM::DeviceControl::eMFPB_ClosedCaptionFormat_SCTE21_608B, DCM::DeviceControl::eMFPB_ClosedCaptionFormat_SCTE21_4, DCM::DeviceControl::eMFPB_ClosedCaptionFormat_Reserved5, DCM::DeviceControl::eMFPB_ClosedCaptionFormat_Reserved6 }`
- `enum DCM::DeviceControl::enMFPB_AspectRatio_t { DCM::DeviceControl::enMFPB_AR_Unkown, DCM::DeviceControl::enMFPB_AR_FollowInput, DCM::DeviceControl::enMFPB_AR_4_3, DCM::DeviceControl::enMFPB_AR_16_9, DCM::DeviceControl::enMFPB_AR_14_9, DCM::DeviceControl::enMFPB_AR_Reserved1, DCM::DeviceControl::enMFPB_AR_Reserved2, DCM::DeviceControl::enMFPB_AR_Reserved3, DCM::DeviceControl::enMFPB_AR_Reserved4, DCM::DeviceControl::enMFPB_AR_Reserved5, DCM::DeviceControl::enMFPB_AR_Reserved6, DCM::DeviceControl::enMFPB_AR_Reserved7, DCM::DeviceControl::enMFPB_AR_Reserved8 }`
- `enum DCM::DeviceControl::enMFPB_VideoCodec_t { DCM::DeviceControl::eMFPB_VideoCodec_Unkown, DCM::DeviceControl::eMFPB_VideoCodec_Mpeg2, DCM::DeviceControl::eMFPB_VideoCodec_Avc, DCM::DeviceControl::eMFPB_VideoCodec_Reserved1, DCM::DeviceControl::eMFPB_VideoCodec_Reserved2, DCM::DeviceControl::eMFPB_VideoCodec_Reserved3, DCM::DeviceControl::eMFPB_VideoCodec_Reserved4 }`
- `enum DCM::DeviceControl::enMFPB_VideoEncodingMode_t { DCM::DeviceControl::eMFPB_VideoEncodingMode_Transrate, DCM::DeviceControl::eMFPB_VideoEncodingMode_Transcode, DCM::DeviceControl::eMFPB_VideoEncodingMode_Reserved3, DCM::DeviceControl::eMFPB_VideoEncodingMode_Reserved4, DCM::DeviceControl::eMFPB_VideoEncodingMode_Reserved5, DCM::DeviceControl::eMFPB_VideoEncodingMode_Reserved6 }`

- enum DCM::DeviceControl::enMFPB_VideoEncoderCodec_t { DCM::DeviceControl::eMFPB_VideoEncoderCodec_Mpeg2, DCM::DeviceControl::eMFPB_VideoEncoderCodec_Avc, DCM::DeviceControl::eMFPB_VideoEncoderCodec_Reserved3, DCM::DeviceControl::eMFPB_VideoEncoderCodec_Reserved4, DCM::DeviceControl::eMFPB_VideoEncoderCodec_Reserved5, DCM::DeviceControl::eMFPB_VideoEncoderCodec_Reserved6 }
- enum DCM::DeviceControl::enMFPB_VideoMode_t { DCM::DeviceControl::eMFPB_VideoMode_SD, DCM::DeviceControl::eMFPB_VideoMode_HD, DCM::DeviceControl::eMFPB_VideoMode_SD_Down, DCM::DeviceControl::eMFPB_VideoMode_Reserved3, DCM::DeviceControl::eMFPB_VideoMode_Reserved4, DCM::DeviceControl::eMFPB_VideoMode_Reserved5, DCM::DeviceControl::eMFPB_VideoMode_Reserved6 }
- enum DCM::DeviceControl::enMFPB_VerResolution_t { DCM::DeviceControl::eMFPB_VR_FollowInput, DCM::DeviceControl::eMFPB_VR_CustomResolution, DCM::DeviceControl::eMFPB_VR_96, DCM::DeviceControl::eMFPB_VR_128, DCM::DeviceControl::eMFPB_VR_144, DCM::DeviceControl::eMFPB_VR_176, DCM::DeviceControl::eMFPB_VR_180, DCM::DeviceControl::eMFPB_VR_192, DCM::DeviceControl::eMFPB_VR_216, DCM::DeviceControl::eMFPB_VR_240, DCM::DeviceControl::eMFPB_VR_270, DCM::DeviceControl::eMFPB_VR_288, DCM::DeviceControl::eMFPB_VR_360, DCM::DeviceControl::eMFPB_VR_384, DCM::DeviceControl::eMFPB_VR_396, DCM::DeviceControl::eMFPB_VR_480i, DCM::DeviceControl::eMFPB_VR_480, DCM::DeviceControl::eMFPB_VR_540, DCM::DeviceControl::eMFPB_VR_576i, DCM::DeviceControl::eMFPB_VR_576, DCM::DeviceControl::eMFPB_VR_720p, DCM::DeviceControl::eMFPB_VR_1080i, DCM::DeviceControl::eMFPB_VR_1152, DCM::DeviceControl::eMFPB_VR_1080p, DCM::DeviceControl::eMFPB_VR_280, DCM::DeviceControl::eMFPB_VR_Reserved3, DCM::DeviceControl::eMFPB_VR_Reserved4, DCM::DeviceControl::eMFPB_VR_Reserved5, DCM::DeviceControl::eMFPB_VR_Reserved6, DCM::DeviceControl::eMFPB_VR_Reserved7, DCM::DeviceControl::eMFPB_VR_Reserved8, DCM::DeviceControl::eMFPB_VR_Reserved9, DCM::DeviceControl::eMFPB_VR_Reserved10, DCM::DeviceControl::eMFPB_VR_Reserved11, DCM::DeviceControl::eMFPB_VR_Reserved12, DCM::DeviceControl::eMFPB_VR_Reserved13, DCM::DeviceControl::eMFPB_VR_Reserved14, DCM::DeviceControl::eMFPB_VR_Reserved15, DCM::DeviceControl::eMFPB_VR_Reserved16, DCM::DeviceControl::eMFPB_VR_Reserved17, DCM::DeviceControl::eMFPB_VR_Reserved18, DCM::DeviceControl::eMFPB_VR_Reserved19, DCM::DeviceControl::eMFPB_VR_Reserved20, DCM::DeviceControl::eMFPB_VR_Reserved21, DCM::DeviceControl::eMFPB_VR_Reserved22, DCM::DeviceControl::eMFPB_VR_Reserved23, DCM::DeviceControl::eMFPB_VR_Reserved24, DCM::DeviceControl::eMFPB_VR_Reserved25, DCM::DeviceControl::eMFPB_VR_Reserved26, DCM::DeviceControl::eMFPB_VR_Reserved27, DCM::DeviceControl::eMFPB_VR_Reserved28, DCM::DeviceControl::eMFPB_VR_Reserved29, DCM::DeviceControl::eMFPB_VR_Reserved30 }
- enum DCM::DeviceControl::enMFPB_HorizResolution_t { DCM::DeviceControl::eMFPB_HR_FollowInput, DCM::DeviceControl::eMFPB_HR_FollowInputAspectRatio, DCM::DeviceControl::eMFPB_HR_CustomResolution, DCM::DeviceControl::eMFPB_HR_96, DCM::DeviceControl::eMFPB_HR_128, DCM::DeviceControl::eMFPB_HR_176, DCM::DeviceControl::eMFPB_HR_192, DCM::DeviceControl::eMFPB_HR_320, DCM::DeviceControl::eMFPB_HR_352, DCM::DeviceControl::eMFPB_HR_384, DCM::DeviceControl::eMFPB_HR_480, DCM::DeviceControl::eMFPB_HR_528, DCM::DeviceControl::eMFPB_HR_544, DCM::DeviceControl::eMFPB_HR_640, DCM::DeviceControl::eMFPB_HR_704, DCM::DeviceControl::eMFPB_HR_720, DCM::DeviceControl::eMFPB_HR_854, DCM::DeviceControl::eMFPB_HR_960, DCM::DeviceControl::eMFPB_HR_1024, DCM::DeviceControl::eMFPB_HR_1080, DCM::DeviceControl::eMFPB_HR_1152, DCM::DeviceControl::eMFPB_HR_1280, DCM::DeviceControl::eMFPB_HR_1408, DCM::DeviceControl::eMFPB_HR_1440, DCM::DeviceControl::eMFPB_HR_1920, DCM::DeviceControl::eMFPB_HR_368, DCM::DeviceControl::eMFPB_HR_Ratio_1_2, DCM::DeviceControl::eMFPB_HR_Ratio_2_3, DCM::DeviceControl::eMFPB_HR_Ratio_3_4, DCM::DeviceControl::eMFPB_HR_Ratio_Reserved1, DCM::DeviceControl::eMFPB_HR_Reserved2, DCM::DeviceControl::eMFPB_HR_Reserved3, DCM::DeviceControl::eMFPB_HR_Reserved4, DCM::DeviceControl::eMFPB_HR_Reserved5, DCM::DeviceControl::eMFPB_HR_Reserved6, DCM::DeviceControl::eMFPB_HR_Reserved7, DCM::DeviceControl::eMFPB_HR_Reserved8, DCM::DeviceControl::eMFPB_HR_Reserved9 }

- Reserved9, DCM::DeviceControl::eMFPB_HR_Reserved10, DCM::DeviceControl::eMFPB_HR_Reserved11, DCM::DeviceControl::eMFPB_HR_Reserved12, DCM::DeviceControl::eMFPB_HR_Reserved13, DCM::DeviceControl::eMFPB_HR_Reserved14, DCM::DeviceControl::eMFPB_HR_Reserved15, DCM::DeviceControl::eMFPB_HR_Reserved16, DCM::DeviceControl::eMFPB_HR_Reserved17, DCM::DeviceControl::eMFPB_HR_Reserved18, DCM::DeviceControl::eMFPB_HR_Reserved19, DCM::DeviceControl::eMFPB_HR_Reserved20, DCM::DeviceControl::eMFPB_HR_Reserved21, DCM::DeviceControl::eMFPB_HR_Reserved22, DCM::DeviceControl::eMFPB_HR_Reserved23, DCM::DeviceControl::eMFPB_HR_Reserved24, DCM::DeviceControl::eMFPB_HR_Reserved25, DCM::DeviceControl::eMFPB_HR_Reserved26 }
- **enum** DCM::DeviceControl::enMFPB_FrameRate_t { DCM::DeviceControl::eMFPB_FrameRate_FollowInput, DCM::DeviceControl::eMFPB_FrameRate_Reduction, DCM::DeviceControl::eMFPB_FrameRate_24Hz, DCM::DeviceControl::eMFPB_FrameRate_25Hz, DCM::DeviceControl::eMFPB_FrameRate_29_97Hz, DCM::DeviceControl::eMFPB_FrameRate_30Hz, DCM::DeviceControl::eMFPB_FrameRate_50Hz, DCM::DeviceControl::eMFPB_FrameRate_59_94Hz, DCM::DeviceControl::eMFPB_FrameRate_60Hz, DCM::DeviceControl::eMFPB_FrameRate_Reserved9, DCM::DeviceControl::eMFPB_FrameRate_Reserved10, DCM::DeviceControl::eMFPB_FrameRate_Reserved11, DCM::DeviceControl::eMFPB_FrameRate_Reserved12 }
 - **enum** DCM::DeviceControl::enMFPB_FrameRateReduction_t { DCM::DeviceControl::eMFPB_FrameRateReduction_None, DCM::DeviceControl::eMFPB_FrameRateReduction_1_over_2, DCM::DeviceControl::eMFPB_FrameRateReduction_1_over_3, DCM::DeviceControl::eMFPB_FrameRateReduction_1_over_4, DCM::DeviceControl::eMFPB_FrameRateReduction_1_over_5, DCM::DeviceControl::eMFPB_FrameRateReduction_1_over_6, DCM::DeviceControl::eMFPB_FrameRateReduction_1_over_30, DCM::DeviceControl::eMFPB_FrameRateReduction_1_over_60, DCM::DeviceControl::eMFPB_FrameRateReduction_Reserved9, DCM::DeviceControl::eMFPB_FrameRateReduction_Reserved10, DCM::DeviceControl::eMFPB_FrameRateReduction_Reserved11, DCM::DeviceControl::eMFPB_FrameRateReduction_Reserved12 }
 - **enum** DCM::DeviceControl::enMFPB_Profile_t { DCM::DeviceControl::eMFPB_Profile_FollowInput, DCM::DeviceControl::eMFPB_Profile_Baseline, DCM::DeviceControl::eMFPB_Profile_ConstrainedBaseline, DCM::DeviceControl::eMFPB_Profile_Main, DCM::DeviceControl::eMFPB_Profile_High, DCM::DeviceControl::eMFPB_Profile_Reserved1, DCM::DeviceControl::eMFPB_Profile_Reserved2, DCM::DeviceControl::eMFPB_Profile_Reserved3, DCM::DeviceControl::eMFPB_Profile_Reserved4, DCM::DeviceControl::eMFPB_Profile_Reserved5, DCM::DeviceControl::eMFPB_Profile_Reserved6 }
 - **enum** DCM::DeviceControl::enMFPB_BitrateMode { DCM::DeviceControl::eMFPB_BitrateMode_CBR, DCM::DeviceControl::eMFPB_BitrateMode_CappedVBR, DCM::DeviceControl::eMFPB_BitrateMode_Statmux, DCM::DeviceControl::eMFPB_BitrateMode_Reserved4, DCM::DeviceControl::eMFPB_BitrateMode_Reserved5, DCM::DeviceControl::eMFPB_BitrateMode_Reserved6 }
 - **enum** DCM::DeviceControl::enMFPB_GopStructure_t { DCM::DeviceControl::eMFPB_GS_FollowInput, DCM::DeviceControl::eMFPB_GS_Fixed, DCM::DeviceControl::eMFPB_GS_Dynamic, DCM::DeviceControl::eMFPB_GS_KeepClosed, DCM::DeviceControl::eMFPB_GS_HardFixed, DCM::DeviceControl::eMFPB_GS_Reserved2, DCM::DeviceControl::eMFPB_GS_Reserved3, DCM::DeviceControl::eMFPB_GS_Reserved4, DCM::DeviceControl::eMFPB_GS_Reserved5 }
 - **enum** DCM::DeviceControl::enMFPB_ClosedCaptions_t { DCM::DeviceControl::eMFPB_ClosedCaptions_Disable, DCM::DeviceControl::eMFPB_ClosedCaptions_Auto, DCM::DeviceControl::eMFPB_ClosedCaptions_TestField1, DCM::DeviceControl::eMFPB_ClosedCaptions_TestField2, × DCM::DeviceControl::eMFPB_ClosedCaptions_TestField1_2, DCM::DeviceControl::eMFPB_ClosedCaptions_Manual, DCM::DeviceControl::eMFPB_ClosedCaptions_Reserved5, DCM::DeviceControl::eMFPB_ClosedCaptions_Reserved6, DCM::DeviceControl::eMFPB_ClosedCaptions_Reserved7, DCM::DeviceControl::eMFPB_ClosedCaptions_Reserved8, DCM::DeviceControl::eMFPB_ClosedCaptions_Reserved9, DCM::DeviceControl::eMFPB_ClosedCaptions_Reserved10 }
 - **enum** DCM::DeviceControl::enMFPB_AspectRatioSigMode { DCM::DeviceControl::eMFPB_AspectRatioModeSig_Manual, DCM::DeviceControl::eMFPB_AspectRatioModeSig_Auto, DCM::DeviceControl::eMFPB_AspectRatioModeSig_Reserved1, DCM::DeviceControl::eMFPB_AspectRatioMode-

- Sig_Reserved2, DCM::DeviceControl::eMFPB_AspectRatioModeSig_Reserved3, DCM::DeviceControl::eMFPB_AspectRatioModeSig_Reserved4, DCM::DeviceControl::eMFPB_AspectRatioModeSig_Reserved5, DCM::DeviceControl::eMFPB_AspectRatioModeSig_Reserved6 }
- enum DCM::DeviceControl::enMFPB_AspectRatioSig { DCM::DeviceControl::eMFPB_AspectRatioSig_4_3, DCM::DeviceControl::eMFPB_AspectRatioSig_16_9, DCM::DeviceControl::eMFPB_AspectRatioSig_14_9, DCM::DeviceControl::eMFPB_AspectRatioSig_Reserved1, DCM::DeviceControl::eMFPB_AspectRatioSig_Reserved2, DCM::DeviceControl::eMFPB_AspectRatioSig_Reserved3, DCM::DeviceControl::eMFPB_AspectRatioSig_Reserved4, DCM::DeviceControl::eMFPB_AspectRatioSig_Reserved5, DCM::DeviceControl::eMFPB_AspectRatioSig_Reserved6 }
 - enum DCM::DeviceControl::enMFPB_AfdMode { DCM::DeviceControl::eMFPB_AfdMode_Manual, DCM::DeviceControl::eMFPB_AfdMode_Auto, DCM::DeviceControl::eMFPB_AfdMode_Reserved1, DCM::DeviceControl::eMFPB_AfdMode_Reserved2, DCM::DeviceControl::eMFPB_AfdMode_Reserved3, DCM::DeviceControl::eMFPB_AfdMode_Reserved4, DCM::DeviceControl::eMFPB_AfdMode_Reserved5, DCM::DeviceControl::eMFPB_AfdMode_Reserved6 }

Active format descriptor.

- enum DCM::DeviceControl::enMFPB_Afd { DCM::DeviceControl::enMFPB_Afd_16_9_b_top, DCM::DeviceControl::enMFPB_Afd_14_9_b_top, DCM::DeviceControl::enMFPB_Afd_16_9_b_centre, DCM::DeviceControl::enMFPB_Afd_4_3_centre, DCM::DeviceControl::enMFPB_Afd_16_9_centre, DCM::DeviceControl::enMFPB_Afd_14_9_centre, DCM::DeviceControl::enMFPB_Afd_4_3_sp_14_9, DCM::DeviceControl::enMFPB_Afd_16_9_sp_14_9, DCM::DeviceControl::enMFPB_Afd_16_9_sp_4_3, DCM::DeviceControl::eMFPB_Afd_Reserved1, DCM::DeviceControl::eMFPB_Afd_Reserved2, DCM::DeviceControl::eMFPB_Afd_Reserved3, DCM::DeviceControl::eMFPB_Afd_Reserved4, DCM::DeviceControl::eMFPB_Afd_Reserved5, DCM::DeviceControl::eMFPB_Afd_Reserved6 }
- enum DCM::DeviceControl::enMFPB_PAFF { DCM::DeviceControl::enMFPB_PAFF_MBAFF, DCM::DeviceControl::enMFPB_PAFF_PAFF, DCM::DeviceControl::enMFPB_PAFF_Reserved1, DCM::DeviceControl::enMFPB_PAFF_Reserved2, DCM::DeviceControl::enMFPB_PAFF_Reserved3, DCM::DeviceControl::enMFPB_PAFF_Reserved4, DCM::DeviceControl::enMFPB_PAFF_Reserved5, DCM::DeviceControl::enMFPB_PAFF_Reserved6 }

Picture Adaptive Frame Field Encoding.

- enum DCM::DeviceControl::enMFPB_MR_FrameRate_t { DCM::DeviceControl::eMFPB_MR_FrameRate_30Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_29_97Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_25Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_23_98Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_24Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_15Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_14_99Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_12_5Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_12Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_11_99Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_10Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_9_99Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_50Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_59_94Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_60Hz, DCM::DeviceControl::eMFPB_MR_FrameRate_Reserved4, DCM::DeviceControl::eMFPB_MR_FrameRate_Reserved5, DCM::DeviceControl::eMFPB_MR_FrameRate_Reserved6, DCM::DeviceControl::eMFPB_MR_FrameRate_Reserved7, DCM::DeviceControl::eMFPB_MR_FrameRate_Reserved8, DCM::DeviceControl::eMFPB_MR_FrameRate_Reserved9, DCM::DeviceControl::eMFPB_MR_FrameRate_Reserved10 }
- enum DCM::DeviceControl::enMFPB_Level_t { DCM::DeviceControl::eMFPB_Level_Auto, DCM::DeviceControl::eMFPB_Level_1, DCM::DeviceControl::eMFPB_Level_1b, DCM::DeviceControl::eMFPB_Level_1_1, DCM::DeviceControl::eMFPB_Level_1_2, DCM::DeviceControl::eMFPB_Level_1_3, DCM::DeviceControl::eMFPB_Level_2, DCM::DeviceControl::eMFPB_Level_2_1, DCM::DeviceControl::eMFPB_Level_2_2, DCM::DeviceControl::eMFPB_Level_3, DCM::DeviceControl::eMFPB_Level_3_1, DCM::DeviceControl::eMFPB_Level_3_2, DCM::DeviceControl::eMFPB_Level_4, DCM::DeviceControl::eMFPB_Level_4_1, DCM::DeviceControl::eMFPB_Level_4_2, DCM::DeviceControl::eMFPB_Level_Reserved1, DCM::DeviceControl::eMFPB_Level_Reserved2,

- ```
DCM::DeviceControl::eMFPB_Level_Reserved3, DCM::DeviceControl::eMFPB_Level_Reserved4,
DCM::DeviceControl::eMFPB_Level_Reserved5 }
```
- `enum DCM::DeviceControl::enMFPB_EntropyEncoding_t { DCM::DeviceControl::eMFPB_EntropyEncoding_Auto, DCM::DeviceControl::eMFPB_EntropyEncoding_CAVLC, DCM::DeviceControl::eMFPB_EntropyEncoding_CABAC, DCM::DeviceControl::eMFPB_EntropyEncoding_Reserved1, DCM::DeviceControl::eMFPB_EntropyEncoding_Reserved2, DCM::DeviceControl::eMFPB_EntropyEncoding_Reserved3 }`
  - `enum DCM::DeviceControl::enMFPB_AudioFormat_t { DCM::DeviceControl::eMFPB_AudioFormat_MPEG1_Layer2, DCM::DeviceControl::eMFPB_AudioFormat_AC3, DCM::DeviceControl::eMFPB_AudioFormat_DolbyDigitalPlus, DCM::DeviceControl::eMFPB_AudioFormat_DolbyDigitalPulse, DCM::DeviceControl::eMFPB_AudioFormat_LC_AAC, DCM::DeviceControl::eMFPB_AudioFormat_HE_AACv1, DCM::DeviceControl::eMFPB_AudioFormat_HE_AACv2, DCM::DeviceControl::eMFPB_AudioFormat_AAC, DCM::DeviceControl::eMFPB_AudioFormat_Reserved9, DCM::DeviceControl::eMFPB_AudioFormat_Reserved10, DCM::DeviceControl::eMFPB_AudioFormat_Reserved11, DCM::DeviceControl::eMFPB_AudioFormat_Reserved12, DCM::DeviceControl::eMFPB_AudioFormat_Reserved13, DCM::DeviceControl::eMFPB_AudioFormat_Reserved14, DCM::DeviceControl::eMFPB_AudioFormat_Reserved15 }`
  - `enum DCM::DeviceControl::enMFPB_AudioChannelConfiguration_t { DCM::DeviceControl::eMFPB_AudioChannelConfig_Mono, DCM::DeviceControl::eMFPB_AudioChannelConfig_Stereo, DCM::DeviceControl::eMFPB_AudioChannelConfig_ACC_5_1, DCM::DeviceControl::eMFPB_AudioChannelConfig_Reserved3, DCM::DeviceControl::eMFPB_AudioChannelConfig_Reserved4, DCM::DeviceControl::eMFPB_AudioChannelConfig_Reserved5, DCM::DeviceControl::eMFPB_AudioChannelConfig_Reserved6, DCM::DeviceControl::eMFPB_AudioChannelConfig_Reserved7, DCM::DeviceControl::eMFPB_AudioChannelConfig_Reserved8, DCM::DeviceControl::eMFPB_AudioChannelConfig_Reserved9, DCM::DeviceControl::eMFPB_AudioChannelConfig_Reserved10 }`
  - `enum DCM::DeviceControl::enMFPB_AudioStatusChannelConfiguration_t { DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_MPEGLII_1_0, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_MPEGLII_1_1, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_MPEGLII_2, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_MPEGLII_2_JS, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_DD_1_0, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_DD_1_1, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_DD_2_0, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_DD_3_0, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_DD_2_1, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_DD_3_1, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_DD_2_2, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_DD_3_2, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_AAC_1_0, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_AAC_2_0, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_AAC_3_0, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_AAC_4_0, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_AAC_5_0, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_AAC_5_1, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_AAC_7_1, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved1, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved2, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved3, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved4, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved5, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved6, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved7, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved8, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved9, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved10, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved11, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved12, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved13, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved14, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved15, DCM::DeviceControl::eMFPB_AudioStatusChannelConfig_Reserved16 }`
  - `enum DCM::DeviceControl::enMFPB_AudioSampleRate_t { DCM::DeviceControl::eMFPB_AudioSampleRate_FollowInput, DCM::DeviceControl::eMFPB_AudioSampleRate_22_05KHz, DCM::-`



```

DeviceControl::eMFPB_AudioSampleRate_24KHz, DCM::DeviceControl::eMFPB_AudioSample-
Rate_32KHz, DCM::DeviceControl::eMFPB_AudioSampleRate_44_1KHz, DCM::DeviceControl-
::eMFPB_AudioSampleRate_48KHz, DCM::DeviceControl::eMFPB_AudioSampleRate_Reserved1,
DCM::DeviceControl::eMFPB_AudioSampleRate_Reserved2, DCM::DeviceControl::eMFPB_Audio-
SampleRate_Reserved3, DCM::DeviceControl::eMFPB_AudioSampleRate_Reserved4, DCM::Device-
Control::eMFPB_AudioSampleRate_Reserved5 }
• enum DCM::DeviceControl::enMFPB_AudioStatusSampleRate_t { DCM::DeviceControl::eMFP-
B_AudioStatusSampleRate_22_05KHz, DCM::DeviceControl::eMFPB_AudioStatusSampleRate_-
24KHz, DCM::DeviceControl::eMFPB_AudioStatusSampleRate_32KHz, DCM::DeviceControl::e-
MFPB_AudioStatusSampleRate_44_1KHz, DCM::DeviceControl::eMFPB_AudioStatusSampleRate-
_48KHz, DCM::DeviceControl::eMFPB_AudioStatusSampleRate_96KHz, DCM::DeviceControl::e-
MFPB_AudioStatusSampleRate_88_2KHz, DCM::DeviceControl::eMFPB_AudioStatusSampleRate-
_64KHz, DCM::DeviceControl::eMFPB_AudioStatusSampleRate_16KHz, DCM::DeviceControl-
::eMFPB_AudioStatusSampleRate_12KHz, DCM::DeviceControl::eMFPB_AudioStatusSampleRate-
_11_025KHz, DCM::DeviceControl::eMFPB_AudioStatusSampleRate_8KHz, DCM::DeviceControl-
::eMFPB_AudioStatusSampleRate_7_35KHz, DCM::DeviceControl::eMFPB_AudioStatusSample-
Rate_Reserved1, DCM::DeviceControl::eMFPB_AudioStatusSampleRate_Reserved2, DCM::Device-
Control::eMFPB_AudioStatusSampleRate_Reserved3, DCM::DeviceControl::eMFPB_AudioStatus-
SampleRate_Reserved4, DCM::DeviceControl::eMFPB_AudioStatusSampleRate_Reserved5, DC-
M::DeviceControl::eMFPB_AudioStatusSampleRate_Reserved6, DCM::DeviceControl::eMFPB_Audio-
StatusSampleRate_Reserved7, DCM::DeviceControl::eMFPB_AudioStatusSampleRate_Reserved8,
DCM::DeviceControl::eMFPB_AudioStatusSampleRate_Reserved9, DCM::DeviceControl::eMFP-
B_AudioStatusSampleRate_Reserved10, DCM::DeviceControl::eMFPB_AudioStatusSampleRate_-
Reserved11, DCM::DeviceControl::eMFPB_AudioStatusSampleRate_Reserved12, DCM::Device-
Control::eMFPB_AudioStatusSampleRate_Reserved13, DCM::DeviceControl::eMFPB_AudioStatus-
SampleRate_Reserved14, DCM::DeviceControl::eMFPB_AudioStatusSampleRate_Reserved15, ×
DCM::DeviceControl::eMFPB_AudioStatusSampleRate_Reserved16 }
• enum DCM::DeviceControl::enMFPB_AAC_TransportPacketMode_t { DCM::DeviceControl::e-
MFPB_PacketMode_MPEG2_ADTS, DCM::DeviceControl::eMFPB_PacketMode_MPEG4_ADT-
S, DCM::DeviceControl::eMFPB_PacketMode_MPEG4_LATM, DCM::DeviceControl::eMFPB_-
PacketMode_MPEG4_LATM_EXPL, DCM::DeviceControl::eMFPB_PacketMode_MPEG4_AD-
TS_CRC, DCM::DeviceControl::eMFPB_PacketMode_Reserved5, DCM::DeviceControl::eMFPB-
_PacketMode_Reserved6, DCM::DeviceControl::eMFPB_PacketMode_Reserved7, DCM::Device-
Control::eMFPB_PacketMode_Reserved8 }
• enum DCM::DeviceControl::enMFPB_AAC_AdvancedEncodingTools { DCM::DeviceControl::e-
MFPB_AET_None, DCM::DeviceControl::eMFPB_AET_TNS, DCM::DeviceControl::eMFPB_A-
ET_PNS_TNS, DCM::DeviceControl::eMFPB_AET_SBR, DCM::DeviceControl::eMFPB_AET_-
SBR_PS, DCM::DeviceControl::eMFPB_AET_DRC, DCM::DeviceControl::eMFPB_AET_Reserved7,
DCM::DeviceControl::eMFPB_AET_Reserved8, DCM::DeviceControl::eMFPB_AET_Reserved9,
DCM::DeviceControl::eMFPB_AET_Reserved10 }
• enum DCM::DeviceControl::enMFPB_Dolby_BitStreamMode { DCM::DeviceControl::eMFPB_-
BSM_CompleteMain, DCM::DeviceControl::eMFPB_BSM_MusicAndEffects, DCM::DeviceControl-
::eMFPB_BSM_VisualImpaired, DCM::DeviceControl::eMFPB_BSM_HearingImpaired, DCM::-
DeviceControl::eMFPB_BSM_Dialog, DCM::DeviceControl::eMFPB_BSM_Commentary, DCM-
::DeviceControl::eMFPB_BSM_EmergencyFlash, DCM::DeviceControl::eMFPB_BSM_MainMinus-
Dialogue, DCM::DeviceControl::eMFPB_BSM_VoiceOver, DCM::DeviceControl::eMFPB_BSM-
_Karaoke, DCM::DeviceControl::eMFPB_BSM_Reserved7 }
• enum DCM::DeviceControl::enMFPB_Dolby_DynamicRangeControl { DCM::DeviceControl::e-
MFPB_DD_None, DCM::DeviceControl::eMFPB_DD_FilmStandard, DCM::DeviceControl::eMF-
PB_DD_FilmLight, DCM::DeviceControl::eMFPB_DD_MusicStandard, DCM::DeviceControl::e-
MFPB_DD_MusicLight, DCM::DeviceControl::eMFPB_DD_Speech, DCM::DeviceControl::eMF-
PB_DD_Reserved6, DCM::DeviceControl::eMFPB_DD_Reserved7, DCM::DeviceControl::eMF-
PB_DD_Reserved8, DCM::DeviceControl::eMFPB_DD_Reserved9, DCM::DeviceControl::eMFP-
B_DD_Reserved10 }

```

- enum DCM::DeviceControl::enMFPB\_Dolby\_DigitalDeEmphasis { DCM::DeviceControl::eMFPB\_DDE\_None, DCM::DeviceControl::eMFPB\_DDE\_50\_15us, DCM::DeviceControl::eMFPB\_DDE\_Auto, DCM::DeviceControl::eMFPB\_DDE\_Reserved3, DCM::DeviceControl::eMFPB\_DDE\_Reserved4, DCM::DeviceControl::eMFPB\_DDE\_Reserved5, DCM::DeviceControl::eMFPB\_DDE\_Reserved6 }
  - enum DCM::DeviceControl::enMFPB\_Dolby\_SurroundMode { DCM::DeviceControl::eMFPB\_DS\_NotIndicated, DCM::DeviceControl::eMFPB\_DS\_Disabled, DCM::DeviceControl::eMFPB\_DS\_Enabled, DCM::DeviceControl::eMFPB\_DS\_Reserver3, DCM::DeviceControl::eMFPB\_DS\_Reserver4, DCM::DeviceControl::eMFPB\_DS\_Reserver5, DCM::DeviceControl::eMFPB\_DS\_Reserver6 }
  - enum DCM::DeviceControl::enMFPB\_Dolby\_RoomType { DCM::DeviceControl::eMFPB\_DR\_NotIndicated, DCM::DeviceControl::eMFPB\_DR\_SmallRoom, DCM::DeviceControl::eMFPB\_DR\_LargeRoom, DCM::DeviceControl::eMFPB\_DR\_Reserved3, DCM::DeviceControl::eMFPB\_DR\_Reserved4, DCM::DeviceControl::eMFPB\_DR\_Reserved5, DCM::DeviceControl::eMFPB\_DR\_Reserved6 }
  - enum DCM::DeviceControl::enMFPB\_Downmix\_ToStereo { DCM::DeviceControl::eMFPB\_Downmix\_ToStereo\_LTRT, DCM::DeviceControl::eMFPB\_Downmix\_ToStereo\_LORO, DCM::DeviceControl::eMFPB\_Downmix\_ToStereo\_Auto, DCM::DeviceControl::eMFPB\_Downmix\_ToStereo\_NotIndicated, DCM::DeviceControl::eMFPB\_Downmix\_ToStereo\_Reserved2, DCM::DeviceControl::eMFPB\_Downmix\_ToStereo\_Reserved3, DCM::DeviceControl::eMFPB\_Downmix\_ToStereo\_Reserved4, DCM::DeviceControl::eMFPB\_Downmix\_ToStereo\_Reserved5, DCM::DeviceControl::eMFPB\_Downmix\_ToStereo\_Reserved6 }
- Select channels to keep when converting to stereo/dual mono.*
- enum DCM::DeviceControl::enMFPB\_ExtendedBSI\_Mode { DCM::DeviceControl::eMFPB\_ExtendedBSI\_Mode\_Standard, DCM::DeviceControl::eMFPB\_ExtendedBSI\_Mode\_XBSI, DCM::DeviceControl::eMFPB\_ExtendedBSI\_Mode\_Reserved1, DCM::DeviceControl::eMFPB\_ExtendedBSI\_Mode\_Reserved2, DCM::DeviceControl::eMFPB\_ExtendedBSI\_Mode\_Reserved3, DCM::DeviceControl::eMFPB\_ExtendedBSI\_Mode\_Reserved4, DCM::DeviceControl::eMFPB\_ExtendedBSI\_Mode\_Reserved5, DCM::DeviceControl::eMFPB\_ExtendedBSI\_Mode\_Reserved6 }
- Extended BSI Mode.*
- enum DCM::DeviceControl::enMFPB\_Dolby\_SurroundExMode { DCM::DeviceControl::eMFPB\_DSExt\_NotIndicated, DCM::DeviceControl::eMFPB\_DSExt\_Disabled, DCM::DeviceControl::eMFPB\_DSExt\_Enabled, DCM::DeviceControl::eMFPB\_DSExt\_Reserverd1, DCM::DeviceControl::eMFPB\_DSExt\_Reserverd2, DCM::DeviceControl::eMFPB\_DSExt\_Reserverd3, DCM::DeviceControl::eMFPB\_DSExt\_Reserverd4 }
- Extended Surround Mode.*
- enum DCM::DeviceControl::enMFPB\_Downmix\_ToMono { DCM::DeviceControl::eMFPB\_Downmix\_ToMono\_Left, DCM::DeviceControl::eMFPB\_Downmix\_ToMono\_Right, DCM::DeviceControl::eMFPB\_Downmix\_ToMono\_Split, DCM::DeviceControl::eMFPB\_Downmix\_ToMono\_Reserved1, DCM::DeviceControl::eMFPB\_Downmix\_ToMono\_Reserved2, DCM::DeviceControl::eMFPB\_Downmix\_ToMono\_Reserved3, DCM::DeviceControl::eMFPB\_Downmix\_ToMono\_Reserved4 }
- Select dual mono channels to keep when converting to mono.*
- enum DCM::DeviceControl::enMFPB\_DolbyDec\_DynComp { DCM::DeviceControl::eMFPB\_DolbyDec\_DynComp\_Line, DCM::DeviceControl::eMFPB\_DolbyDec\_DynComp\_RF, DCM::DeviceControl::eMFPB\_DolbyDec\_DynComp\_Custom, DCM::DeviceControl::eMFPB\_DolbyDec\_DynComp\_None, DCM::DeviceControl::eMFPB\_DolbyDec\_DynComp\_Reserved1, DCM::DeviceControl::eMFPB\_DolbyDec\_DynComp\_Reserved2, DCM::DeviceControl::eMFPB\_DolbyDec\_DynComp\_Reserved3, DCM::DeviceControl::eMFPB\_DolbyDec\_DynComp\_Reserved4 }
- Dolby Dynamic Compression Mode.*
- enum DCM::DeviceControl::enMFPB\_MetaDataPass\_t { DCM::DeviceControl::enMFPB\_MetaDataCfg\_Auto, DCM::DeviceControl::enMFPB\_MetaDataCfg\_Manual, DCM::DeviceControl::enMFPB\_MetaDataCfg\_Reserved1, DCM::DeviceControl::enMFPB\_MetaDataCfg\_Reserved2, DCM::DeviceControl::enMFPB\_MetaDataCfg\_Reserved3, DCM::DeviceControl::enMFPB\_MetaDataCfg\_Reserved4 }

Cfg\_Reserved4, DCM::DeviceControl::enMFPB\_MetaDataCfg\_Reserved5, DCM::DeviceControl::enMFPB\_MetaDataCfg\_Reserved6 }

*Setting of how meta data should be passed between decoder and encoder.*

## Functions

- void [DCM::DeviceControl::MFP\\_RequestReset](#) (in unsigned short BoardNr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Request to restart the DCM\_MFP application and restore the current state.*
- void [DCM::DeviceControl::MFPB\\_GetBoardCfg](#) (in unsigned short SlotNbr, out MFPB\_BoardCfg\_t MFPB\_BoardCfg) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get Board Configuration of a Multi format processor (MFP) board.*
- void [DCM::DeviceControl::MFPB\\_SetBoardCfg](#) (in unsigned short SlotNbr, in MFPB\_BoardCfg\_t MFPB\_BoardCfg) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Apply a new Board Configuration on a Multi format processor (MFP) board.*
- void [DCM::DeviceControl::MFPB\\_GetMfpResourcesLoad](#) (in unsigned short BoardNr, out ResourcesLoad\_List\_t ResourcesLoad\_List) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get measured load of MFP resources.*
- void [DCM::DeviceControl::MFPB\\_GetEngineUnitCfg](#) (in unsigned short BoardNr, in RefProcessorEngineUnitList\_t RefProcessorEngineUnitList, out MFPB\_EngineUnitCfgList\_t EngineUnitCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get the current configuration of the Multi format processor (MFP) engine unit.*
- void [DCM::DeviceControl::MFPB\\_SetEngineUnitCfg](#) (in unsigned short BoardNr, in MFPB\_EngineUnitCfgList\_t EngineUnitCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Apply a new processor engine unit configuration on a Multi format processor (MFP) board.*
- void [DCM::DeviceControl::MFPB\\_GetMPEG2FramePicturesCfg](#) (in unsigned short BoardNr, out MFPB\_MPEG2FramePicturesCfgList\_t MPEG2FramePicturesCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get the current configuration of MPEG-2 Frame Pictures engine unit.*
- void [DCM::DeviceControl::MFPB\\_SetMPEG2FramePicturesCfg](#) (in unsigned short BoardNr, in MFPB\_MPEG2FramePicturesCfgList\_t MPEG2FramePicturesCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Apply a new configuration of MPEG-2 Frame Pictures on a Multi format processor (MFP) engine unit.*
- void [DCM::DeviceControl::MFPB\\_ResetEngine](#) (in unsigned short SlotNr, in unsigned short EngineNr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Request to reset a DCM\_MFP engine.*
- void [DCM::DeviceControl::MFPB\\_ServiceCfgGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_ServiceCfgList\_t ServiceCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get the Multi format processor (MFP) service settings.*
- void [DCM::DeviceControl::MFPB\\_ServiceCfgSetL](#) (in unsigned short BoardNr, in MFPB\_ServiceCfgList\_t ServiceCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Add or update the Multi format processor (MFP) service settings.*

- void [DCM::DeviceControl::MFPB\\_ServiceComponentsGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_ServiceComponentsList\_t ServiceComponentsList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the list of components which can be processed.*

- void [DCM::DeviceControl::MFPB\\_VideoInformationGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_VideoServiceInformationList\_t VideoInfoList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get video status information.*

- void [DCM::DeviceControl::MFPB\\_VideoDecodeCfgSetL](#) (in unsigned short BoardNr, in MFPB\_VideoDecodeCfgList\_t VideoDecodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the video decoding settings.*

- void [DCM::DeviceControl::MFPB\\_VideoDecodeCfgGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_VideoDecodeCfgList\_t VideoDecodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the video decoding settings.*

- void [DCM::DeviceControl::MFPB\\_VideoDecodeCfgDeleteL](#) (in unsigned short BoardNr, in MFPB\_ServiceTrackingID\_List\_t ToDelete) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove the video decoding settings.*

- void [DCM::DeviceControl::MFPB\\_VideoEncodeCfgSetL](#) (in unsigned short BoardNr, in MFPB\_VideoEncodeCfgList\_t VideoEncodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the video encoding settings.*

- void [DCM::DeviceControl::MFPB\\_VideoEncodeCfgGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_VideoEncodeCfgList\_t VideoEncodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the video encoding settings.*

- void [DCM::DeviceControl::MFPB\\_VideoEncodeCfgV2SetL](#) (in unsigned short BoardNr, in MFPB\_VideoEncodeCfgV2List\_t VideoEncodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the video encoding settings.*

- void [DCM::DeviceControl::MFPB\\_VideoEncodeCfgV2GetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_VideoEncodeCfgV2List\_t VideoEncodeCfgList) raises (-Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the video encoding settings.*

- void [DCM::DeviceControl::MFPB\\_VideoEncodeCfgDeleteL](#) (in unsigned short BoardNr, in MFPB\_ServiceTrackingID\_List\_t ToDelete) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove the video encoding settings and related closed caption settings.*

- void [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeCfgSetL](#) (in IPS\_RefSvc\_t MainService, in MFPB\_MultiResVideoEncodeCfgList\_t MultiResVideoEncodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Create and or set the video encoding settings for one or more multi resolution services belonging to one particular main service.*

- void [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeCfgGetL](#) (in IPS\_RefSvc\_t MainService, out MFPB\_MultiResVideoEncodeCfgList\_t MultiResVideoEncodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the video encoding settings for the multi resolution services belonging to one particular main service.*

- void [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeDeleteL](#) (in IPS\_RefSvc\_t MainService, in IPS\_RefSvc\_List\_t RefSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete one or more multi resolution services on a MFP board from a particular main service.*

- void [DCM::DeviceControl::MFPB\\_SetMultiResABR](#) (in unsigned short SlotNbr, in MFPB\_MultiResABR\_List\_t MultiResABR\_List) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the ABR settings for all multi resolution services belonging to one particular main service.*

- void [DCM::DeviceControl::MFPB\\_GetMultiResABR](#) (in unsigned short SlotNbr, in IPS\_RefSvc\_List\_t RefSvcList, out MFPB\_MultiResABR\_List\_t MultiResABR\_List) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the ABR settings for all multi resolution services belonging to one particular main service.*

- void [DCM::DeviceControl::MFPB\\_AudioInformationGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_AudioServiceInformationList\_t AudioInfoList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get audio status information.*

- void [DCM::DeviceControl::MFPB\\_AudioDecodeCfgSetL](#) (in unsigned short BoardNr, in MFPB\_AudioDecodeCfgList\_t AudioDecodeCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

*Set the Audio decoding settings.*

- void [DCM::DeviceControl::MFPB\\_AudioDecodeCfgGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_AudioDecodeCfgList\_t AudioDecodeCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the Audio decoding settings.*

- void [DCM::DeviceControl::MFPB\\_AudioDecodeCfgDeleteL](#) (in unsigned short BoardNr, in MFPB\_ServiceTrackingID\_List\_t ToDelete) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Remove the Audio decoding settings.*

- void [DCM::DeviceControl::MFPB\\_AudioEncodeCfgSetL](#) (in unsigned short BoardNr, in MFPB\_AudioEncodeCfgList\_t AudioEncodeCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

*Set the Audio encoding settings.*

- void [DCM::DeviceControl::MFPB\\_AudioEncodeCfgGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_AudioEncodeCfgList\_t AudioEncodeCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the Audio encoding settings.*

- void [DCM::DeviceControl::MFPB\\_AudioEncodeCfgDeleteL](#) (in unsigned short BoardNr, in MFPB\_ServiceTrackingID\_List\_t ToDelete) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Remove the Audio encoding settings and all settings related to it (AAC/Dolby audio settings)*

- void [DCM::DeviceControl::MFPB\\_MPEGL2AudioCfgSetL](#) (in unsigned short BoardNr, in MFPB\_MPEGL2AudioCfgList\_t MPEGL2AudioCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

*Set the MPEG1-L2 audio processing settings.*

- void [DCM::DeviceControl::MFPB\\_MPEGL2AudioCfgGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_MPEGL2AudioCfgList\_t MPEGL2AudioCfgList) raises (-Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the MPEG1-L2 audio processing settings.*

- void [DCM::DeviceControl::MFPB\\_AACAudioCfgSetL](#) (in unsigned short BoardNr, in MFPB\_AACAudioCfgList\_t AACAudioCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)



*Set the AAC audio processing settings.*

- void [DCM::DeviceControl::MFPB\\_AACAudioCfgGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_AacAudioCfgList\_t AacAudioCfgList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the AAC audio processing settings.*

- void [DCM::DeviceControl::MFPB\\_DolbyAudioCfgSetL](#) (in unsigned short BoardNr, in MFPB\_DolbyAudioCfgList\_t DolbyAudioCfgList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

*Set the dolby audio processing settings.*

- void [DCM::DeviceControl::MFPB\\_DolbyAudioCfgGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_DolbyAudioCfgList\_t DolbyAudioCfgList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the dolby audio processing settings.*

- void [DCM::DeviceControl::MFPB\\_DolbyAudioCfgSetL\\_V2](#) (in unsigned short BoardNr, in MFPB\_DolbyAudioCfgList\_V2\_t DolbyAudioCfgList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

*Set the dolby audio processing settings.*

- void [DCM::DeviceControl::MFPB\\_DolbyAudioCfgGetL\\_V2](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_DolbyAudioCfgList\_V2\_t DolbyAudioCfgList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the dolby audio processing settings.*

- void [DCM::DeviceControl::MFPB\\_AudioDecodeExtraMPEGL2SetL](#) (in unsigned short BoardNr, in MFPB\_AudioDecodeExtraMPEGL2CfgList\_t AudioDecodeExtraMPEGL2CfgList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Update extra MPEG1-L2 audio decoding options.*

- void [DCM::DeviceControl::MFPB\\_AudioDecodeExtraMPEGL2GetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_AudioDecodeExtraMPEGL2CfgList\_t AudioDecodeExtraMPEGL2CfgList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get extra MPEG1-L2 audio decoding options.*

- void [DCM::DeviceControl::MFPB\\_AudioDecodeExtraAACSetL](#) (in unsigned short BoardNr, in AudioDecodeExtraAACCfgList\_t AudioDecodeExtraAACCfgList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Update extra AAC audio decoding settings.*

- void [DCM::DeviceControl::MFPB\\_AudioDecodeExtraAACGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out AudioDecodeExtraAACCfgList\_t AudioDecodeExtraAACCfgList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get extra AAC audio decoding settings.*

- void [DCM::DeviceControl::MFPB\\_AudioDecodeExtraDolbySetL](#) (in unsigned short BoardNr, in MFPB\_AudioDecodeExtraDolbyCfgList\_t AudioDecodeExtraDolbyCfgList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Update extra Dolby audio decoding settings.*

- void [DCM::DeviceControl::MFPB\\_AudioDecodeExtraDolbyGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_AudioDecodeExtraDolbyCfgList\_t AudioDecodeExtraDolbyCfgList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get extra Dolby audio decoding settings.*

- void [DCM::DeviceControl::MFPB\\_CaptionServiceCfgSetL](#) (in unsigned short BoardNr, in MFPB\_Svc\_CaptionInfoList\_t Svc\_CaptionInfoList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Set the MFP closed caption descriptor settings.*

- void [DCM::DeviceControl::MFPB\\_CaptionServiceCfgGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_Svc\_CaptionInfoList\_t Svc\_CaptionInfoList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the MFP closed caption descriptor settings.*

- void [DCM::DeviceControl::MFPB\\_DD\\_MetaDecStatusGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_ServiceDD\_MetaDecStatusList\_t StatusList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get Dolby meta data status on the decoder.*

- void [DCM::DeviceControl::MFPB\\_MetaDataCfgSetL](#) (in unsigned short BoardNr, in MFPB\_Service\_MetaDataCfgList\_t MetaDataCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

*Set the audio meta data configuration.*

- void [DCM::DeviceControl::MFPB\\_MetaDataCfgGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out MFPB\_ServiceMetaDataCfgList\_t MetaDataCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the audio meta data configuration.*

### 8.21.1 Detailed Description

This contains specific types, enums and methods for controlling the MFP part of the device. A quick overview of how the MFP IDL interface is typically used -----

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- Configure the board to enable/disable audio processing: [MFPB\\_GetBoardCfg/MFPB\\_SetBoardCfg](#)
- Check the available engine units (can depend on the audio processing mode, chassis, board version, ... ): [MFPB\\_GetEngineUnitCfg](#)
- Configure the mode of the engine units e.g.: SD, HD, Mixed, Splice, ... : [MFPB\\_SetEngineUnitCfg](#) ...
- Pass a service to the board (MFP will handle this as a delayed service): [TC\\_ServiceAddL/Processor-ServiceAddL](#)
- Change MFP service settings e.g. the delay: [MFPB\\_ServiceCfgGetL/MFPB\\_ServiceCfgSetL](#)
- To prepare processing, move the newly passed service to a slot on a engine unit: [MFPB\\_ServiceCfgSetL/GetL](#)
- Check what components (PIDs) are processable, check if PIDs have matched with what settings: [MFPB\\_ServiceComponentsGetL](#)
- Add decoders (with tracking ID = 0): [MFPB\\_VideoDecodeCfgSetL](#), [MFPB\\_AudioDecodeCfgSetL](#)
- Get tracking IDs of the newly added decoders: [MFPB\\_VideoDecodeCfgGetL](#), [MFPB\\_AudioDecodeCfgGetL](#)
- Add encoders with tracking ID of the respective decoders : [MFPB\\_VideoEncodeCfgSetL](#), [MFPB\\_AudioEncodeCfgSetL](#) ...
- Check what decoder/encoder settings have matched with what PID: [MFPB\\_ServiceComponentsGetL](#)
- Check property bits if service/engine unit is processing: [TC\\_ServiceGetL](#), [MFPB\\_GetEngineUnitCfg](#)

- Check the decoder status: MFPB\_VideoInformationGetL, MFPB\_AudioInformationGetL ...
- Optionally do some advanced settings (respective encoder must exist): MFPB\_CaptionServiceCfgSetL/GetL, MFPB\_AACAudioCfgSetL/GetL, MFPB\_DolbyAudioCfgSetL/GetL
- Optionally update decoder/encoder settings: MFPB\_VideoDecodeCfgSetL, MFPB\_AudioDecodeCfgSetL, MFPB\_VideoEncodeCfgSetL, MFPB\_AudioEncodeCfgSetL
- Optionally move service between engine units or slots: MFPB\_ServiceCfgSetL/GetL ...
- Remove encoder. This will delete all but decoder settings (encoder, closed caption, AAC, Dolby, ... are deleted): MFPB\_VideoEncodeCfgDeleteL, MFPB\_AudioEncodeCfgDeleteL
- Remove decoder. This will also delete all settings related to this tracking ID (encoder, closed caption, AAC, Dolby, ...): MFPB\_VideoDecodeCfgDeleteL, MFPB\_AudioDecodeCfgDeleteL
- Remove service from MFP board (and all its settings eg, service, decoders, encoders, ... ): TC\_ServiceDeleteL

### 8.21.2 Typedef Documentation

**8.21.2.1** `typedef sequence<MFPB_AudioDecodeExtraAACCfg_t> DCM::DeviceControl::AudioDecode-ExtraAACCfgList_t`

Definition at line 12475 of file DCM.idl.

**8.21.2.2** `typedef sequence<MFPB_AAC_AudioSettings_t> DCM::DeviceControl::MFPB_AAC_Audio-SettingsList_t`

Definition at line 11979 of file DCM.idl.

**8.21.2.3** `typedef sequence<MFPB_AacAudioCfg_t> DCM::DeviceControl::MFPB_AacAudioCfgList_t`

Definition at line 11988 of file DCM.idl.

**8.21.2.4** `typedef sequence<MFPB_AudioDecodeCfg_t> DCM::DeviceControl::MFPB_AudioDecode-CfgList_t`

Definition at line 11672 of file DCM.idl.

**8.21.2.5** `typedef sequence<MFPB_AudioDecodeExtraAACSettings_t> DCM::DeviceControl::MFPB_-AudioDecodeExtraAACSettingsList_t`

Definition at line 12464 of file DCM.idl.

**8.21.2.6** `typedef sequence<MFPB_AudioDecodeExtraDolbyCfg_t> DCM::DeviceControl::MFPB_-AudioDecodeExtraDolbyCfgList_t`

Definition at line 12567 of file DCM.idl.

**8.21.2.7** `typedef sequence<MFPB_AudioDecodeExtraDolbySettings_t> DCM::DeviceControl::MFPB_-AudioDecodeExtraDolbySettingsList_t`

Definition at line 12556 of file DCM.idl.



**8.21.2.8** `typedef sequence<MFPB_AudioDecodeExtraMPEGL2Cfg_t> DCM::DeviceControl::MFPB_AudioDecodeExtraMPEGL2CfgList_t`

Definition at line 12407 of file DCM.idl.

**8.21.2.9** `typedef sequence<MFPB_AudioDecodeExtraMPEGL2Settings_t> DCM::DeviceControl::MFPB_AudioDecodeExtraMPEGL2SettingsList_t`

Definition at line 12396 of file DCM.idl.

**8.21.2.10** `typedef sequence<MFPB_AudioDecode_t> DCM::DeviceControl::MFPB_AudioDecodeList_t`

Definition at line 11665 of file DCM.idl.

**8.21.2.11** `typedef sequence<MFPB_AudioEncodeCfg_t> DCM::DeviceControl::MFPB_AudioEncodeCfgList_t`

Definition at line 11797 of file DCM.idl.

**8.21.2.12** `typedef sequence<MFPB_AudioEncode_t> DCM::DeviceControl::MFPB_AudioEncodeList_t`

Definition at line 11790 of file DCM.idl.

**8.21.2.13** `typedef sequence<MFPB_AudioInformation_t> DCM::DeviceControl::MFPB_AudioInformationList_t`

Definition at line 11624 of file DCM.idl.

**8.21.2.14** `typedef sequence<MFPB_AudioServiceInformation_t> DCM::DeviceControl::MFPB_AudioServiceInformationList_t`

Definition at line 11631 of file DCM.idl.

**8.21.2.15** `typedef sequence<MFPB_Component_t> DCM::DeviceControl::MFPB_ComponentList_t`

Definition at line 10562 of file DCM.idl.

**8.21.2.16** `typedef sequence<MFPB_DD_MetaDecStatus_t> DCM::DeviceControl::MFPB_DD_MetaDecStatusList_t`

Definition at line 12714 of file DCM.idl.

**8.21.2.17** `typedef sequence<MFPB_Dolby_AudioSettings_t> DCM::DeviceControl::MFPB_Dolby_AudioSettingsList_t`

Definition at line 12142 of file DCM.idl.

**8.21.2.18** `typedef sequence<MFPB_Dolby_AudioSettings_V2_t> DCM::DeviceControl::MFPB_Dolby_AudioSettingsList_V2_t`

Definition at line 12313 of file DCM.idl.

**8.21.2.19** `typedef sequence<MFPB_DolbyAudioCfg_t> DCM::DeviceControl::MFPB_DolbyAudioCfgList_t`

Definition at line 12151 of file DCM.idl.

**8.21.2.20** `typedef sequence<MFPB_DolbyAudioCfg_V2_t> DCM::DeviceControl::MFPB_DolbyAudioCfgList_V2_t`

Definition at line 12322 of file DCM.idl.

**8.21.2.21** `typedef sequence<MFPB_EngineUnitCfg_t> DCM::DeviceControl::MFPB_EngineUnitCfgList_t`

Description of the slot type a service belongs to.

Definition at line 10392 of file DCM.idl.

**8.21.2.22** `typedef sequence<MFPB_ES_CaptionInfo_t> DCM::DeviceControl::MFPB_ES_CaptionInfoList_t`

Definition at line 12620 of file DCM.idl.

**8.21.2.23** `typedef sequence<MFPB_MetaDataCfg_t> DCM::DeviceControl::MFPB_MetaDataCfgList_t`

Definition at line 12769 of file DCM.idl.

**8.21.2.24** `typedef sequence<MFPB_MPEG2FramePicturesCfg_t> DCM::DeviceControl::MFPB_MPEG2FramePicturesCfgList_t`

Definition at line 10474 of file DCM.idl.

**8.21.2.25** `typedef sequence<MFPB_MPEGL2_AudioSettings_t> DCM::DeviceControl::MFPB_MPEGL2_AudioSettingsList_t`

Definition at line 11867 of file DCM.idl.

**8.21.2.26** `typedef sequence<MFPB_MPEGL2AudioCfg_t> DCM::DeviceControl::MFPB_MPEGL2AudioCfgList_t`

Definition at line 11876 of file DCM.idl.

**8.21.2.27** `typedef sequence<MFPB_MultiResABR_t> DCM::DeviceControl::MFPB_MultiResABR_List_t`

Definition at line 11057 of file DCM.idl.

**8.21.2.28** `typedef sequence<MFPB_MultiResVideoEncodeCfg_t> DCM::DeviceControl::MFPB_MultiResVideoEncodeCfgList_t`

Definition at line 11381 of file DCM.idl.

**8.21.2.29** `typedef sequence<MFPB_MultiResVideoEncode_t> DCM::DeviceControl::MFPB_MultiResVideoEncodeList_t`

Definition at line 11374 of file DCM.idl.

**8.21.2.30** `typedef sequence<MFPB_ServiceCfg_t> DCM::DeviceControl::MFPB_ServiceCfgList_t`

Definition at line 10431 of file DCM.idl.

**8.21.2.31** `typedef sequence<MFPB_ServiceComponents_t> DCM::DeviceControl::MFPB_ServiceComponentsList_t`

Definition at line 10570 of file DCM.idl.

**8.21.2.32** `typedef sequence<MFPB_ServiceDD_MetaDecStatus_t> DCM::DeviceControl::MFPB_ServiceDD_MetaDecStatusList_t`

Definition at line 12725 of file DCM.idl.

**8.21.2.33** `typedef sequence<MFPB_ServiceMetaDataCfg_t> DCM::DeviceControl::MFPB_ServiceMetaDataCfgList_t`

Definition at line 12780 of file DCM.idl.

**8.21.2.34** `typedef sequence<MFPB_ServiceTrackingID_t> DCM::DeviceControl::MFPB_ServiceTrackingID_List_t`

Definition at line 10555 of file DCM.idl.

**8.21.2.35** `typedef sequence<MFPB_Svc_CaptionInfo_t> DCM::DeviceControl::MFPB_Svc_CaptionInfoList_t`

Definition at line 12629 of file DCM.idl.

**8.21.2.36** `typedef sequence<MFPB_TrackingID_t> DCM::DeviceControl::MFPB_TrackingID_List_t`

Definition at line 10548 of file DCM.idl.

**8.21.2.37** `typedef unsigned long DCM::DeviceControl::MFPB_TrackingID_t`

Definition at line 10547 of file DCM.idl.

**8.21.2.38** `typedef sequence<MFPB_VideoDecodeCfg_t> DCM::DeviceControl::MFPB_VideoDecodeCfgList_t`

Definition at line 10690 of file DCM.idl.

**8.21.2.39** `typedef sequence<MFPB_VideoDecode_t> DCM::DeviceControl::MFPB_VideoDecodeList_t`

Definition at line 10683 of file DCM.idl.

**8.21.2.40** `typedef sequence<MFPB_VideoEncodeCfg_t> DCM::DeviceControl::MFPB_VideoEncodeCfgList_t`

Definition at line 11046 of file DCM.idl.

**8.21.2.41** `typedef sequence<MFPB_VideoEncodeCfgV2_t> DCM::DeviceControl::MFPB_VideoEncodeCfgV2List_t`

Definition at line 11221 of file DCM.idl.

**8.21.2.42** `typedef sequence<MFPB_VideoEncode_t> DCM::DeviceControl::MFPB_VideoEncodeList_t`

Definition at line 11039 of file DCM.idl.

**8.21.2.43** `typedef sequence<MFPB_VideoEncodeV2_t> DCM::DeviceControl::MFPB_VideoEncodeV2List_t`

Definition at line 11214 of file DCM.idl.

**8.21.2.44** `typedef sequence<MFPB_VideoInformation_t> DCM::DeviceControl::MFPB_VideoInformationList_t`

Definition at line 10649 of file DCM.idl.

**8.21.2.45** `typedef sequence<MFPB_VideoServiceInformation_t> DCM::DeviceControl::MFPB_VideoServiceInformationList_t`

Definition at line 10656 of file DCM.idl.

**8.21.2.46** `typedef sequence<RefProcessorEngineUnit_t> DCM::DeviceControl::RefProcessorEngineUnitList_t`

Description of engine unit types (underlying hardware) for Multi format processor (MFP) boards.

Definition at line 10343 of file DCM.idl.

**8.21.2.47** `typedef sequence<ResourcesLoad_t> DCM::DeviceControl::ResourcesLoad_List_t`

Definition at line 10312 of file DCM.idl.

### 8.21.3 Enumeration Type Documentation

**8.21.3.1** `enum DCM::DeviceControl::enMFPB_AAC_AdvancedEncodingTools`

Enumerator:

*eMFPB\_AET\_None* For AAC-LC.  
*eMFPB\_AET\_TNS* TNS.  
*eMFPB\_AET\_PNS\_TNS* PNS + TNS.  
*eMFPB\_AET\_SBR* For HE-AACv1: SBR.  
*eMFPB\_AET\_SBR\_PS* For HE-AACv2: SBR + PS.  
*eMFPB\_AET\_DRC* For Future functionality.  
*eMFPB\_AET\_Reserved7* For Future functionality.  
*eMFPB\_AET\_Reserved8* For Future functionality.  
*eMFPB\_AET\_Reserved9* For Future functionality.  
*eMFPB\_AET\_Reserved10* For Future functionality.

Definition at line 11933 of file DCM.idl.

**8.21.3.2** `enum DCM::DeviceControl::enMFPB_AAC_TransportPacketMode_t`

Enumerator:

*eMFPB\_PacketMode\_MPEG2\_ADTS* MPEG-2 ADTS.

*eMFPB\_PacketMode\_MPEG4\_ADTS* MPEG-4 ADTS (No CRC)  
*eMFPB\_PacketMode\_MPEG4\_LATM* MPEG-4 LATM/LOAS.  
*eMFPB\_PacketMode\_MPEG4\_LATM\_EXPL* MPEG-4 LATM/LOAS explicit, AAC HE only.  
*eMFPB\_PacketMode\_MPEG4\_ADTS\_CRC* For Future functionality, MPEG-4 ADTS + CRC.  
*eMFPB\_PacketMode\_Reserved5* For Future functionality.  
*eMFPB\_PacketMode\_Reserved6* For Future functionality.  
*eMFPB\_PacketMode\_Reserved7* For Future functionality.  
*eMFPB\_PacketMode\_Reserved8* For Future functionality.

Definition at line 11920 of file DCM.idl.

### 8.21.3.3 enum DCM::DeviceControl::enMFPB\_AdaptSI\_t

Enumerator:

*eMFPB\_AdaptSI\_Disabled* No SI adaptation.  
*eMFPB\_AdaptSI\_DVB* Adapt SI, prefer DVB ES type (AC-3 audio uses ES type 0x06 + AC-3 descriptor, MPEG-2 video uses ES type 0x02)  
*eMFPB\_AdaptSI\_ATSC* Adapt SI, prefer ATSC ES type (AC-3 audio uses ES type 0x81, MPEG-2 video uses ES type 0x02)  
*eMFPB\_AdaptSI\_DC2* Adapt SI, prefer DC-II ES type (AC-3 audio uses ES type 0x81, MPEG-2 video uses ES type 0x80)

Definition at line 10405 of file DCM.idl.

### 8.21.3.4 enum DCM::DeviceControl::enMFPB\_Afd

Enumerator:

*enMFPB\_Afd\_16\_9\_b\_top* Box 16:9 (top)  
*enMFPB\_Afd\_14\_9\_b\_top* Box 14:9 (top)  
*enMFPB\_Afd\_16\_9\_b\_centre* Box > 16:9 (centre)  
*enMFPB\_Afd\_4\_3\_centre* 4:3 (centre)  
*enMFPB\_Afd\_16\_9\_centre* 16:9 (centre)  
*enMFPB\_Afd\_14\_9\_centre* 14:9 (centre)  
*enMFPB\_Afd\_4\_3\_sp\_14\_9* 4:3 (with shoot and protect 14:9 centre)  
*enMFPB\_Afd\_16\_9\_sp\_14\_9* 16:9 (with shoot and protect 14:9 centre)  
*enMFPB\_Afd\_16\_9\_sp\_4\_3* 16:9 (with shoot and protect 4:3 centre)  
*eMFPB\_Afd\_Reserved1* Reserved for future use.  
*eMFPB\_Afd\_Reserved2* Reserved for future use.  
*eMFPB\_Afd\_Reserved3* Reserved for future use.  
*eMFPB\_Afd\_Reserved4* Reserved for future use.  
*eMFPB\_Afd\_Reserved5* Reserved for future use.  
*eMFPB\_Afd\_Reserved6* Reserved for future use.

Definition at line 11138 of file DCM.idl.

## 8.21.3.5 enum DCM::DeviceControl::enMFPB\_AfdMode

Active format descriptor.

Enumerator:

*eMFPB\_AfdMode\_Manual* Aspect Ratio Signaling set to a user defined value. (Not supported for HD->HD or SD->SD processing.)

*eMFPB\_AfdMode\_Auto* Follow input and use user configured default as backup. (Not supported for HD->SD processing.)

*eMFPB\_AfdMode\_Reserved1* Reserved for future use.

*eMFPB\_AfdMode\_Reserved2* Reserved for future use.

*eMFPB\_AfdMode\_Reserved3* Reserved for future use.

*eMFPB\_AfdMode\_Reserved4* Reserved for future use.

*eMFPB\_AfdMode\_Reserved5* Reserved for future use.

*eMFPB\_AfdMode\_Reserved6* Reserved for future use.

Definition at line 11126 of file DCM.idl.

## 8.21.3.6 enum DCM::DeviceControl::enMFPB\_AspectRatio\_t

Enumerator:

*enMFPB\_AR\_Unkown*

*enMFPB\_AR\_FollowInput*

*enMFPB\_AR\_4\_3*

*enMFPB\_AR\_16\_9*

*enMFPB\_AR\_14\_9*

*enMFPB\_AR\_Reserved1* Reserved for future use.

*enMFPB\_AR\_Reserved2* Reserved for future use.

*enMFPB\_AR\_Reserved3* Reserved for future use.

*enMFPB\_AR\_Reserved4* Reserved for future use.

*enMFPB\_AR\_Reserved5* Reserved for future use.

*enMFPB\_AR\_Reserved6* Reserved for future use.

*enMFPB\_AR\_Reserved7* Reserved for future use.

*enMFPB\_AR\_Reserved8* Reserved for future use.

Definition at line 10606 of file DCM.idl.

## 8.21.3.7 enum DCM::DeviceControl::enMFPB\_AspectRatioSig

Enumerator:

*eMFPB\_AspectRatioSig\_4\_3* Aspect Ratio Signaling 4:3.

*eMFPB\_AspectRatioSig\_16\_9* Aspect Ratio Signaling 16:9.

*eMFPB\_AspectRatioSig\_14\_9* Aspect Ratio Signaling 14:9.

*eMFPB\_AspectRatioSig\_Reserved1* Reserved for future use.

*eMFPB\_AspectRatioSig\_Reserved2* Reserved for future use.

*eMFPB\_AspectRatioSig\_Reserved3* Reserved for future use.  
*eMFPB\_AspectRatioSig\_Reserved4* Reserved for future use.  
*eMFPB\_AspectRatioSig\_Reserved5* Reserved for future use.  
*eMFPB\_AspectRatioSig\_Reserved6* Reserved for future use.

Definition at line 11112 of file DCM.idl.

#### 8.21.3.8 enum DCM::DeviceControl::enMFPB\_AspectRatioSigMode

Enumerator:

*eMFPB\_AspectRatioModeSig\_Manual* Aspect Ratio Signaling set to a user defined value.  
*eMFPB\_AspectRatioModeSig\_Auto* Follow input and use user configured default as backup.  
*eMFPB\_AspectRatioModeSig\_Reserved1* Reserved for future use.  
*eMFPB\_AspectRatioModeSig\_Reserved2* Reserved for future use.  
*eMFPB\_AspectRatioModeSig\_Reserved3* Reserved for future use.  
*eMFPB\_AspectRatioModeSig\_Reserved4* Reserved for future use.  
*eMFPB\_AspectRatioModeSig\_Reserved5* Reserved for future use.  
*eMFPB\_AspectRatioModeSig\_Reserved6* Reserved for future use.

Definition at line 11100 of file DCM.idl.

#### 8.21.3.9 enum DCM::DeviceControl::enMFPB\_AudioChannelConfiguration\_t

Enumerator:

*eMFPB\_AudioChannelConfig\_Mono* Cannot be used for a audio decoder. Cannot be used in combination with (encoder) format HE\_AACv2.  
*eMFPB\_AudioChannelConfig\_Stereo*  
*eMFPB\_AudioChannelConfig\_ACC\_5\_1* 5.1 Channels. Cannot be used in combination with formats MPEG1\_Layer2 and HE\_AACv2  
*eMFPB\_AudioChannelConfig\_Reserved3* Reserved for future.  
*eMFPB\_AudioChannelConfig\_Reserved4* Reserved for future.  
*eMFPB\_AudioChannelConfig\_Reserved5* Reserved for future.  
*eMFPB\_AudioChannelConfig\_Reserved6* Reserved for future.  
*eMFPB\_AudioChannelConfig\_Reserved7* Reserved for future.  
*eMFPB\_AudioChannelConfig\_Reserved8* Reserved for future.  
*eMFPB\_AudioChannelConfig\_Reserved9* Reserved for future.  
*eMFPB\_AudioChannelConfig\_Reserved10* Reserved for future.

Definition at line 11508 of file DCM.idl.

#### 8.21.3.10 enum DCM::DeviceControl::enMFPB\_AudioFormat\_t

Enumerator:

*eMFPB\_AudioFormat\_MPEG1\_Layer2*  
*eMFPB\_AudioFormat\_AC3*  
*eMFPB\_AudioFormat\_DolbyDigitalPlus*

*eMFPB\_AudioFormat\_DolbyDigitalPulse* Reserved for future.

*eMFPB\_AudioFormat\_LC\_AAC* When used in decoder, this is handled as AAC.

*eMFPB\_AudioFormat\_HE\_AACv1* When used in decoder, this is handled as AAC.

*eMFPB\_AudioFormat\_HE\_AACv2* When used in decoder, this is handled as AAC.

*eMFPB\_AudioFormat\_AAC* Wildcard AAC format: All possible AAC formats, only used for audio decoder settings.

*eMFPB\_AudioFormat\_Reserved9* Reserved for future.

*eMFPB\_AudioFormat\_Reserved10* Reserved for future.

*eMFPB\_AudioFormat\_Reserved11* Reserved for future.

*eMFPB\_AudioFormat\_Reserved12* Reserved for future.

*eMFPB\_AudioFormat\_Reserved13* Reserved for future.

*eMFPB\_AudioFormat\_Reserved14* Reserved for future.

*eMFPB\_AudioFormat\_Reserved15* Reserved for future.

Definition at line 11489 of file DCM.idl.

#### 8.21.3.11 enum DCM::DeviceControl::enMFPB\_AudioProcessingMode\_t

Enumerator:

*eMFPB\_AudioProcessingMode\_Disable* Audio processing is disabled on this board. (Default)

- 4 video engine units of type *eMFPB\_EngineUnitType\_VideoAudio* will be available these engine units can process only video.

*eMFPB\_AudioProcessingMode\_Enable* Audio processing is enabled on this board.

- 3 video engine units of type *eMFPB\_EngineUnitType\_VideoAudio* will be available these engine units can both process video and audio.
- 1 audio only engine unit of type *eMFPB\_EngineUnitType\_AudioOnly* will be available this engine unit can only process audio.

*eMFPB\_AudioProcessingMode\_Reserved3* Reserved for future use.

*eMFPB\_AudioProcessingMode\_Reserved4* Reserved for future use.

*eMFPB\_AudioProcessingMode\_Reserved5* Reserved for future use.

*eMFPB\_AudioProcessingMode\_Reserved6* Reserved for future use.

*eMFPB\_AudioProcessingMode\_Reserved7* Reserved for future use.

*eMFPB\_AudioProcessingMode\_Reserved8* Reserved for future use.

Definition at line 10229 of file DCM.idl.

#### 8.21.3.12 enum DCM::DeviceControl::enMFPB\_AudioSampleRate\_t

Enumerator:

*eMFPB\_AudioSampleRate\_FollowInput*

*eMFPB\_AudioSampleRate\_22\_05KHz* AAC only.

*eMFPB\_AudioSampleRate\_24KHz* AAC only.

*eMFPB\_AudioSampleRate\_32KHz* Not for Dolby formats.

*eMFPB\_AudioSampleRate\_44\_1KHz* Not for Dolby formats.

*eMFPB\_AudioSampleRate\_48KHz*



*eMFPB\_AudioSampleRate\_Reserved1* Reserved for future.  
*eMFPB\_AudioSampleRate\_Reserved2* Reserved for future.  
*eMFPB\_AudioSampleRate\_Reserved3* Reserved for future.  
*eMFPB\_AudioSampleRate\_Reserved4* Reserved for future.  
*eMFPB\_AudioSampleRate\_Reserved5* Reserved for future.

Definition at line 11562 of file DCM.idl.

### 8.21.3.13 enum DCM::DeviceControl::enMFPB\_AudioStatusChannelConfiguration\_t

Enumerator:

*eMFPB\_AudioStatusChannelConfig\_MPEGLII\_1\_0* 1.0  
*eMFPB\_AudioStatusChannelConfig\_MPEGLII\_1\_1* 1+1  
*eMFPB\_AudioStatusChannelConfig\_MPEGLII\_2* 2.0 Stereo  
*eMFPB\_AudioStatusChannelConfig\_MPEGLII\_2\_JS* 2.0 Joint Stereo  
*eMFPB\_AudioStatusChannelConfig\_DD\_1\_0* 1/0  
*eMFPB\_AudioStatusChannelConfig\_DD\_1\_1* 1+1  
*eMFPB\_AudioStatusChannelConfig\_DD\_2\_0* 2/0  
*eMFPB\_AudioStatusChannelConfig\_DD\_3\_0* 3/0  
*eMFPB\_AudioStatusChannelConfig\_DD\_2\_1* 2/1  
*eMFPB\_AudioStatusChannelConfig\_DD\_3\_1* 3/1  
*eMFPB\_AudioStatusChannelConfig\_DD\_2\_2* 2/2  
*eMFPB\_AudioStatusChannelConfig\_DD\_3\_2* 3/2  
*eMFPB\_AudioStatusChannelConfig\_AAC\_1\_0* 1.0  
*eMFPB\_AudioStatusChannelConfig\_AAC\_2\_0* 2.0  
*eMFPB\_AudioStatusChannelConfig\_AAC\_3\_0* 3.0  
*eMFPB\_AudioStatusChannelConfig\_AAC\_4\_0* 4.0  
*eMFPB\_AudioStatusChannelConfig\_AAC\_5\_0* 5.0  
*eMFPB\_AudioStatusChannelConfig\_AAC\_5\_1* 5.1  
*eMFPB\_AudioStatusChannelConfig\_AAC\_7\_1* 7.1, Reserved for future use  
*eMFPB\_AudioStatusChannelConfig\_Reserved1* Reserved for future.  
*eMFPB\_AudioStatusChannelConfig\_Reserved2* Reserved for future.  
*eMFPB\_AudioStatusChannelConfig\_Reserved3* Reserved for future.  
*eMFPB\_AudioStatusChannelConfig\_Reserved4* Reserved for future.  
*eMFPB\_AudioStatusChannelConfig\_Reserved5* Reserved for future.  
*eMFPB\_AudioStatusChannelConfig\_Reserved6* Reserved for future.  
*eMFPB\_AudioStatusChannelConfig\_Reserved7* Reserved for future.  
*eMFPB\_AudioStatusChannelConfig\_Reserved8* Reserved for future.  
*eMFPB\_AudioStatusChannelConfig\_Reserved9* Reserved for future.  
*eMFPB\_AudioStatusChannelConfig\_Reserved10* Reserved for future.  
*eMFPB\_AudioStatusChannelConfig\_Reserved11* Reserved for future.  
*eMFPB\_AudioStatusChannelConfig\_Reserved12* Reserved for future.  
*eMFPB\_AudioStatusChannelConfig\_Reserved13* Reserved for future.

*eMFPB\_AudioStatusChannelConfig\_Reserved14* Reserved for future.

*eMFPB\_AudioStatusChannelConfig\_Reserved15* Reserved for future.

*eMFPB\_AudioStatusChannelConfig\_Reserved16* Reserved for future.

Definition at line 11523 of file DCM.idl.

#### 8.21.3.14 enum DCM::DeviceControl::enMFPB\_AudioStatusSampleRate\_t

Enumerator:

*eMFPB\_AudioStatusSampleRate\_22\_05KHz* 22,05 kHz

*eMFPB\_AudioStatusSampleRate\_24KHz* 24 kHz

*eMFPB\_AudioStatusSampleRate\_32KHz* 32 kHz

*eMFPB\_AudioStatusSampleRate\_44\_1KHz* 44,1 kHz

*eMFPB\_AudioStatusSampleRate\_48KHz* 48 kHz

*eMFPB\_AudioStatusSampleRate\_96KHz* 96 KHz

*eMFPB\_AudioStatusSampleRate\_88\_2KHz* 88,2 KHz

*eMFPB\_AudioStatusSampleRate\_64KHz* 64 KHz

*eMFPB\_AudioStatusSampleRate\_16KHz* 16 KHz

*eMFPB\_AudioStatusSampleRate\_12KHz* 12 KHz

*eMFPB\_AudioStatusSampleRate\_11\_025KHz* 11,025 KHz

*eMFPB\_AudioStatusSampleRate\_8KHz* 8 KHz

*eMFPB\_AudioStatusSampleRate\_7\_35KHz* 7,35 KHz

*eMFPB\_AudioStatusSampleRate\_Reserved1* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved2* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved3* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved4* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved5* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved6* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved7* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved8* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved9* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved10* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved11* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved12* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved13* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved14* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved15* Reserved for future.

*eMFPB\_AudioStatusSampleRate\_Reserved16* Reserved for future.

Definition at line 11577 of file DCM.idl.

## 8.21.3.15 enum DCM::DeviceControl::enMFPB\_BitrateMode

Enumerator:

- eMFPB\_BitrateMode\_CBR* Encoder rate control outputs with constant bit rate. ES stuffing when needed.
- eMFPB\_BitrateMode\_CappedVBR* Encoder rate control outputs with a max bit rate. No ES stuffing when lower.
- eMFPB\_BitrateMode\_Statmux* No local rate control algorithm is used. Bit rate is managed by external statistical multiplex controller.
- eMFPB\_BitrateMode\_Reserved4* Reserved for future use.
- eMFPB\_BitrateMode\_Reserved5* Reserved for future use.
- eMFPB\_BitrateMode\_Reserved6* Reserved for future use.

Definition at line 10961 of file DCM.idl.

## 8.21.3.16 enum DCM::DeviceControl::enMFPB\_ClosedCaptionFormat\_t

Enumerator:

- eMFPB\_ClosedCaptionFormat\_None* Input contains no closed captions.
- eMFPB\_ClosedCaptionFormat\_SA\_Type\_4* Reserved for future use.
- eMFPB\_ClosedCaptionFormat\_SCTE20* SCTE-20, reserved for future use.
- eMFPB\_ClosedCaptionFormat\_EAI708* SCTE-21 / CEA 708.
- eMFPB\_ClosedCaptionFormat\_Unkown* Input contains a unknown closed caption format.
- eMFPB\_ClosedCaptionFormat\_SCTE21\_608B* SCTE-21 / CEA 608.
- eMFPB\_ClosedCaptionFormat\_SCTE21\_4* SCTE 21 - Type 4, reserved for future use.
- eMFPB\_ClosedCaptionFormat\_Reserved5* Reserved for future use.
- eMFPB\_ClosedCaptionFormat\_Reserved6* Reserved for future use.

Definition at line 10587 of file DCM.idl.

## 8.21.3.17 enum DCM::DeviceControl::enMFPB\_ClosedCaptions\_t

Enumerator:

- eMFPB\_ClosedCaptions\_Disable* Disable closed captions at the output.
- eMFPB\_ClosedCaptions\_Auto* Copy closed caption from decoder if available, else empty CEA 708 closed caption fields will be present.
- eMFPB\_ClosedCaptions\_TestField1* Reserved for future use, Test Pattern: Field 1.
- eMFPB\_ClosedCaptions\_TestField2* Reserved for future use, Test Pattern: Field 2.
- eMFPB\_ClosedCaptions\_TestField1\_2* Reserved for future use, Test Pattern: Field 1 and 2.
- eMFPB\_ClosedCaptions\_Manual* Reserved for future use, Manual.
- eMFPB\_ClosedCaptions\_Reserved5* Reserved for future use.
- eMFPB\_ClosedCaptions\_Reserved6* Reserved for future use.
- eMFPB\_ClosedCaptions\_Reserved7* Reserved for future use.
- eMFPB\_ClosedCaptions\_Reserved8* Reserved for future use.
- eMFPB\_ClosedCaptions\_Reserved9* Reserved for future use.
- eMFPB\_ClosedCaptions\_Reserved10* Reserved for future use.

Definition at line 10984 of file DCM.idl.

## 8.21.3.18 enum DCM::DeviceControl::enMFPB\_Dolby\_BitStreamMode

Enumerator:

*eMFPB\_BSM\_CompleteMain* CompleteMain/Main.

*eMFPB\_BSM\_MusicAndEffects*

*eMFPB\_BSM\_VisualImpaired*

*eMFPB\_BSM\_HearingImpaired*

*eMFPB\_BSM\_Dialog*

*eMFPB\_BSM\_Commentary*

*eMFPB\_BSM\_EmergencyFlash*

*eMFPB\_BSM\_MainMinusDialogue* For status only.

See also

[MFPB\\_DD\\_MetaDecStatus\\_t](#) /  
[MFPB\\_DD\\_MetaEncStatus\\_t](#)

*eMFPB\_BSM\_VoiceOver* For status only.

See also

[MFPB\\_DD\\_MetaDecStatus\\_t](#) /  
[MFPB\\_DD\\_MetaEncStatus\\_t](#)

*eMFPB\_BSM\_Karaoke* For status only.

See also

[MFPB\\_DD\\_MetaDecStatus\\_t](#) /  
[MFPB\\_DD\\_MetaEncStatus\\_t](#)

*eMFPB\_BSM\_Reserved7* For Future functionality.

Definition at line 12034 of file DCM.idl.

## 8.21.3.19 enum DCM::DeviceControl::enMFPB\_Dolby\_DigitalDeEmphasis

Enumerator:

*eMFPB\_DDE\_None*

*eMFPB\_DDE\_50\_15us*

*eMFPB\_DDE\_Auto* For Future functionality.

*eMFPB\_DDE\_Reserved3* For Future functionality.

*eMFPB\_DDE\_Reserved4* For Future functionality.

*eMFPB\_DDE\_Reserved5* For Future functionality.

*eMFPB\_DDE\_Reserved6* For Future functionality.

Definition at line 12064 of file DCM.idl.

## 8.21.3.20 enum DCM::DeviceControl::enMFPB\_Dolby\_DynamicRangeControl

Enumerator:

*eMFPB\_DD\_None*

*eMFPB\_DD\_FilmStandard*

*eMFPB\_DD\_FilmLight*  
*eMFPB\_DD\_MusicStandard*  
*eMFPB\_DD\_MusicLight*  
*eMFPB\_DD\_Speech*  
*eMFPB\_DD\_Reserved6* For Future functionality.  
*eMFPB\_DD\_Reserved7* For Future functionality.  
*eMFPB\_DD\_Reserved8* For Future functionality.  
*eMFPB\_DD\_Reserved9* For Future functionality.  
*eMFPB\_DD\_Reserved10* For Future functionality.

Definition at line 12049 of file DCM.idl.

#### 8.21.3.21 enum DCM::DeviceControl::enMFPB\_Dolby\_RoomType

Enumerator:

*eMFPB\_DR\_NotIndicated*  
*eMFPB\_DR\_SmallRoom*  
*eMFPB\_DR\_LargeRoom*  
*eMFPB\_DR\_Reserved3* For Future functionality.  
*eMFPB\_DR\_Reserved4* For Future functionality.  
*eMFPB\_DR\_Reserved5* For Future functionality.  
*eMFPB\_DR\_Reserved6* For Future functionality.

Definition at line 12086 of file DCM.idl.

#### 8.21.3.22 enum DCM::DeviceControl::enMFPB\_Dolby\_SurroundExMode

Extended Surround Mode.

Version

Release 10.10

Enumerator:

*eMFPB\_DSExt\_NotIndicated*  
*eMFPB\_DSExt\_Disabled* Not Encoded in Dolby Digital Surround EX.  
*eMFPB\_DSExt\_Enabled* Encoded in Dolby Digital Surround EX.  
*eMFPB\_DSExt\_Reserverd1* For Future functionality.  
*eMFPB\_DSExt\_Reserverd2* For Future functionality.  
*eMFPB\_DSExt\_Reserverd3* For Future functionality.  
*eMFPB\_DSExt\_Reserverd4* For Future functionality.

Definition at line 12234 of file DCM.idl.

**8.21.3.23 enum DCM::DeviceControl::enMFPB\_Dolby\_SurroundMode**

Enumerator:

*eMFPB\_DS\_NotIndicated*  
*eMFPB\_DS\_Disabled*  
*eMFPB\_DS\_Enabled*  
*eMFPB\_DS\_Reserver3* For Future functionality.  
*eMFPB\_DS\_Reserver4* For Future functionality.  
*eMFPB\_DS\_Reserver5* For Future functionality.  
*eMFPB\_DS\_Reserver6* For Future functionality.

Definition at line 12075 of file DCM.idl.

**8.21.3.24 enum DCM::DeviceControl::enMFPB\_DolbyDec\_DynComp**

Dolby Dynamic Compression Mode.

Version

Release 10.10

Enumerator:

*eMFPB\_DolbyDec\_DynComp\_Line*  
*eMFPB\_DolbyDec\_DynComp\_RF*  
*eMFPB\_DolbyDec\_DynComp\_Custom*  
*eMFPB\_DolbyDec\_DynComp\_None*  
*eMFPB\_DolbyDec\_DynComp\_Reserved1* For Future functionality.  
*eMFPB\_DolbyDec\_DynComp\_Reserved2* For Future functionality.  
*eMFPB\_DolbyDec\_DynComp\_Reserved3* For Future functionality.  
*eMFPB\_DolbyDec\_DynComp\_Reserved4* For Future functionality.

Definition at line 12520 of file DCM.idl.

**8.21.3.25 enum DCM::DeviceControl::enMFPB\_Downmix\_ToMono**

Select dual mono channels to keep when converting to mono.

Version

Release 10.10

Enumerator:

*eMFPB\_Downmix\_ToMono\_Left* Keep left channel.  
*eMFPB\_Downmix\_ToMono\_Right* Keep right channel.  
*eMFPB\_Downmix\_ToMono\_Split* For Future functionality, keep both channels but as 2 mono channels. Put right channel on new PID.  
*eMFPB\_Downmix\_ToMono\_Reserved1* For Future functionality.  
*eMFPB\_Downmix\_ToMono\_Reserved2* For Future functionality.  
*eMFPB\_Downmix\_ToMono\_Reserved3* For Future functionality.  
*eMFPB\_Downmix\_ToMono\_Reserved4* For Future functionality.

Definition at line 12372 of file DCM.idl.

## 8.21.3.26 enum DCM::DeviceControl::enMFPB\_Downmix\_ToStereo

Select channels to keep when converting to stereo/dual mono.

## Version

Release 10.10

## Enumerator:

*eMFPB\_Downmix\_ToStereo\_LTRT*

*eMFPB\_Downmix\_ToStereo\_LORO*

*eMFPB\_Downmix\_ToStereo\_Auto*

*eMFPB\_Downmix\_ToStereo\_NotIndicated* Do not indicate how to downconvert in dolby Meta data.

Only use this in Dolby encoder settings.

*eMFPB\_Downmix\_ToStereo\_Reserved2* For Future functionality.

*eMFPB\_Downmix\_ToStereo\_Reserved3* For Future functionality.

*eMFPB\_Downmix\_ToStereo\_Reserved4* For Future functionality.

*eMFPB\_Downmix\_ToStereo\_Reserved5* For Future functionality.

*eMFPB\_Downmix\_ToStereo\_Reserved6* For Future functionality.

Definition at line 12201 of file DCM.idl.

## 8.21.3.27 enum DCM::DeviceControl::enMFPB\_EngineUnitMode\_t

## Enumerator:

*eMFPB\_EngineUnitMode\_SD\_Transprocess* 6 SD transrating/coding of video + audio processing.

*eMFPB\_EngineUnitMode\_HD\_Transprocess* 2 HD transrating/coding of video + audio processing.

*eMFPB\_EngineUnitMode\_SD\_HD\_Transprocess* 3 SD and 1 HD transrating/coding of video + audio processing.

*eMFPB\_EngineUnitMode\_SD\_Splice* 6 SD splicing and transrating/coding of video + audio processing.

*eMFPB\_EngineUnitMode\_HD\_Splice* 1 HD splicing and transrating/coding of video + audio processing.

*eMFPB\_EngineUnitMode\_AudioOnly* All slots of a EngineUnitType audio only are always audio only.

*eMFPB\_EngineUnitMode\_MultiRes* V12.0: all slots of a EngineUnitType MultiRes are always - MultiRes only.

*eMFPB\_EngineUnitMode\_Reserved7* Reserved for future use.

*eMFPB\_EngineUnitMode\_Reserved8* Reserved for future use.

*eMFPB\_EngineUnitMode\_Reserved9* Reserved for future use.

*eMFPB\_EngineUnitMode\_Reserved10* Reserved for future use.

*eMFPB\_EngineUnitMode\_Reserved11* Reserved for future use.

*eMFPB\_EngineUnitMode\_Reserved12* Reserved for future use.

*eMFPB\_EngineUnitMode\_Reserved13* Reserved for future use.

*eMFPB\_EngineUnitMode\_Reserved14* Reserved for future use.

*eMFPB\_EngineUnitMode\_Reserved15* Reserved for future use.

Definition at line 10357 of file DCM.idl.

**8.21.3.28 enum DCM::DeviceControl::enMFPB\_EngineUnitType\_t**

Enumerator:

- eMFPB\_EngineUnitType\_VideoAudio* Video and or Audio processing (see MFPB\_BoardCfg), on this engine a audio component will only be processed if the respective video is processed.
- eMFPB\_EngineUnitType\_AudioOnly* On this engine you can only process audio. However services passed to this type can contain video, the video will be delayed with the same value.
- eMFPB\_EngineUnitType\_Reserved1* Reserved for future use.
- eMFPB\_EngineUnitType\_Reserved2* Reserved for future use.
- eMFPB\_EngineUnitType\_Reserved3* Reserved for future use.
- eMFPB\_EngineUnitType\_Reserved4* Reserved for future use.
- eMFPB\_EngineUnitType\_Reserved5* Reserved for future use.
- eMFPB\_EngineUnitType\_Reserved6* Reserved for future use.

Definition at line 10344 of file DCM.idl.

**8.21.3.29 enum DCM::DeviceControl::enMFPB\_EntropyEncoding\_t**

Enumerator:

- eMFPB\_EntropyEncoding\_Auto*
- eMFPB\_EntropyEncoding\_CAVLC*
- eMFPB\_EntropyEncoding\_CABAC* Not allowed in case of baseline profile.
- eMFPB\_EntropyEncoding\_Reserved1*
- eMFPB\_EntropyEncoding\_Reserved2*
- eMFPB\_EntropyEncoding\_Reserved3*

Definition at line 11330 of file DCM.idl.

**8.21.3.30 enum DCM::DeviceControl::enMFPB\_ExtendedBSI\_Mode**

Extended BSI Mode.

Version

Release 10.10

Enumerator:

- eMFPB\_ExtendedBSI\_Mode\_Standard*
- eMFPB\_ExtendedBSI\_Mode\_XBSI*
- eMFPB\_ExtendedBSI\_Mode\_Reserved1* For Future functionality.
- eMFPB\_ExtendedBSI\_Mode\_Reserved2* For Future functionality.
- eMFPB\_ExtendedBSI\_Mode\_Reserved3* For Future functionality.
- eMFPB\_ExtendedBSI\_Mode\_Reserved4* For Future functionality.
- eMFPB\_ExtendedBSI\_Mode\_Reserved5* For Future functionality.
- eMFPB\_ExtendedBSI\_Mode\_Reserved6* For Future functionality.

Definition at line 12218 of file DCM.idl.



## 8.21.3.31 enum DCM::DeviceControl::enMFPB\_FrameRate\_t

Enumerator:

*eMFPB\_FrameRate\_FollowInput* Frame rate follows the frame rate of the input.

*eMFPB\_FrameRate\_Reduction* Framerate will be defined by enMFPB\_FrameRateReduction (.  
See also

[MFPB\\_VideoEncoderTemplate\\_t](#)). Reserved for future use.

*eMFPB\_FrameRate\_24Hz* Reserved for future use.

*eMFPB\_FrameRate\_25Hz* Frame rate in Hz, applies to SD and HD, reserved for future use.

*eMFPB\_FrameRate\_29\_97Hz* Frame rate in Hz, applies to SD and HD, reserved for future use.

*eMFPB\_FrameRate\_30Hz* Frame rate in Hz, applies to SD and HD, reserved for future use.

*eMFPB\_FrameRate\_50Hz* Frame rate in Hz, applies to HD, reserved for future use.

*eMFPB\_FrameRate\_59\_94Hz* Frame rate in Hz, applies to HD, reserved for future use.

*eMFPB\_FrameRate\_60Hz* Frame rate in Hz, applies to HD, reserved for future use.

*eMFPB\_FrameRate\_Reserved9* Reserved for future use.

*eMFPB\_FrameRate\_Reserved10* Reserved for future use.

*eMFPB\_FrameRate\_Reserved11* Reserved for future use.

*eMFPB\_FrameRate\_Reserved12* Reserved for future use.

Definition at line 10889 of file DCM.idl.

## 8.21.3.32 enum DCM::DeviceControl::enMFPB\_FrameRateReduction\_t

Enumerator:

*eMFPB\_FrameRateReduction\_None* Framerate will be defined by enMFPB\_FrameRate (.  
See also

[MFPB\\_VideoEncoderTemplate\\_t](#))

*eMFPB\_FrameRateReduction\_1\_over\_2* Reserved for future use.

*eMFPB\_FrameRateReduction\_1\_over\_3* Reserved for future use.

*eMFPB\_FrameRateReduction\_1\_over\_4* Reserved for future use.

*eMFPB\_FrameRateReduction\_1\_over\_5* Reserved for future use.

*eMFPB\_FrameRateReduction\_1\_over\_6* Reserved for future use.

*eMFPB\_FrameRateReduction\_1\_over\_30* Reserved for future use.

*eMFPB\_FrameRateReduction\_1\_over\_60* Reserved for future use.

*eMFPB\_FrameRateReduction\_Reserved9* Reserved for future use.

*eMFPB\_FrameRateReduction\_Reserved10* Reserved for future use.

*eMFPB\_FrameRateReduction\_Reserved11* Reserved for future use.

*eMFPB\_FrameRateReduction\_Reserved12* Reserved for future use.

Definition at line 10906 of file DCM.idl.

## 8.21.3.33 enum DCM::DeviceControl::enMFPB\_GopStructure\_t

Enumerator:

- eMFPB\_GS\_FollowInput* Reserved for future use: Mpeg2 and Avc: Follow input GOP size and structure. (GOP size, B-pictures, (AVC) IDR are ignored)
- eMFPB\_GS\_Fixed* In the GUI this is called "Custom". Mpeg2 and Avc: Fixed GOP size (can be violated), the number of B frames and (AVC) IDR interval.
- eMFPB\_GS\_Dynamic* Mpeg2 and Avc: The maximum number GOP size.(B-pictures are ignored)
- eMFPB\_GS\_KeepClosed* Mpeg2 and Avc: Keep closed GOP's (GOP size, B-pictures are ignored)
- eMFPB\_GS\_HardFixed* Mpeg2 and Avc: Fixed GOP size (guaranteed), the number of B frames and (AVC) IDR interval.
- eMFPB\_GS\_Reserved2* Reserved for future use (Close GOPs (GOP size, B-pictures, (AVC) IDR are ignored) )
- eMFPB\_GS\_Reserved3* Reserved for future use (Keep I Frames (GOP size, B-pictures, (AVC) IDR are ignored) )
- eMFPB\_GS\_Reserved4* Reserved for future use.
- eMFPB\_GS\_Reserved5* Reserved for future use.

Definition at line 10971 of file DCM.idl.

## 8.21.3.34 enum DCM::DeviceControl::enMFPB\_HorizResolution\_t

Enumerator:

- eMFPB\_HR\_FollowInput* Width follows the width of the input.
- eMFPB\_HR\_FollowInputAspectRatio* Width follows the aspect (width/height) ratio of the input.
- eMFPB\_HR\_CustomResolution* Reserved for future use.
- eMFPB\_HR\_96* Width in pixels, applies to PIP, reserved for future use.
- eMFPB\_HR\_128* Width in pixels, applies to PIP, reserved for future use.
- eMFPB\_HR\_176* Width in pixels, applies to PIP, reserved for future use.
- eMFPB\_HR\_192* Width in pixels, applies to PIP, reserved for future use.
- eMFPB\_HR\_320* Width in pixels, applies to SD, can be used for horizontal scaling.
- eMFPB\_HR\_352* Width in pixels, applies to SD, can be used for horizontal scaling.
- eMFPB\_HR\_384* Width in pixels, reserved for future use.
- eMFPB\_HR\_480* Width in pixels, applies to SD, can be used for horizontal scaling.
- eMFPB\_HR\_528* Width in pixels, applies to SD, can be used for horizontal scaling.
- eMFPB\_HR\_544* Width in pixels, applies to SD, can be used for horizontal scaling.
- eMFPB\_HR\_640* Width in pixels, applies to SD, can be used for horizontal scaling.
- eMFPB\_HR\_704* Width in pixels, applies to SD, can be used for horizontal scaling.
- eMFPB\_HR\_720* Width in pixels, applies to SD, reserved for future use.
- eMFPB\_HR\_854* Width in pixels, reserved for future use.
- eMFPB\_HR\_960* Width in pixels, applies to HD, reserved for future use.
- eMFPB\_HR\_1024* Width in pixels, reserved for future use.
- eMFPB\_HR\_1080* Reserved for future use.
- eMFPB\_HR\_1152* Reserved for future use.

- eMFPB\_HR\_1280* Width in pixels, applies to HD, reserved for future use.
- eMFPB\_HR\_1408* Width in pixels, applies to HD, reserved for future use.
- eMFPB\_HR\_1440* Width in pixels, applies to HD, reserved for future use.
- eMFPB\_HR\_1920* Width in pixels, applies to HD, reserved for future use.
- eMFPB\_HR\_368* Width in pixels, applies to SD, can be used for horizontal scaling.
- eMFPB\_HR\_Ratio\_1\_2* Width in relation to horizontal input resolution, applies to HD horizontal scaling. 1/2 of input HR, only used if input HR is 1920 or 1280 else the behavior is like Follow-Input.
- eMFPB\_HR\_Ratio\_2\_3* Width in relation to horizontal input resolution, applies to HD horizontal scaling. 2/3 of input HR, only used if input HR is 1920 else the behavior is like FollowInput.
- eMFPB\_HR\_Ratio\_3\_4* Width in relation to horizontal input resolution, applies to HD horizontal scaling. 3/4 of input HR, only used if input HR is 1920 or 1280 else the behavior is like Follow-Input.
- eMFPB\_HR\_Reserved1* Reserved for future use.
- eMFPB\_HR\_Reserved2* Reserved for future use.
- eMFPB\_HR\_Reserved3* Reserved for future use.
- eMFPB\_HR\_Reserved4* Reserved for future use.
- eMFPB\_HR\_Reserved5* Reserved for future use.
- eMFPB\_HR\_Reserved6* Reserved for future use.
- eMFPB\_HR\_Reserved7* Reserved for future use.
- eMFPB\_HR\_Reserved8* Reserved for future use.
- eMFPB\_HR\_Reserved9* Reserved for future use.
- eMFPB\_HR\_Reserved10* Reserved for future use.
- eMFPB\_HR\_Reserved11* Reserved for future use.
- eMFPB\_HR\_Reserved12* Reserved for future use.
- eMFPB\_HR\_Reserved13* Reserved for future use.
- eMFPB\_HR\_Reserved14* Reserved for future use.
- eMFPB\_HR\_Reserved15* Reserved for future use.
- eMFPB\_HR\_Reserved16* Reserved for future use.
- eMFPB\_HR\_Reserved17* Reserved for future use.
- eMFPB\_HR\_Reserved18* Reserved for future use.
- eMFPB\_HR\_Reserved19* Reserved for future use.
- eMFPB\_HR\_Reserved20* Reserved for future use.
- eMFPB\_HR\_Reserved21* Reserved for future use.
- eMFPB\_HR\_Reserved22* Reserved for future use.
- eMFPB\_HR\_Reserved23* Reserved for future use.
- eMFPB\_HR\_Reserved24* Reserved for future use.
- eMFPB\_HR\_Reserved25* Reserved for future use.
- eMFPB\_HR\_Reserved26* Reserved for future use.

Definition at line 10830 of file DCM.idl.

**8.21.3.35 enum DCM::DeviceControl::enMFPB\_Level\_t**

Enumerator:

*eMFPB\_Level\_Auto*  
*eMFPB\_Level\_1*  
*eMFPB\_Level\_1b*  
*eMFPB\_Level\_1\_1*  
*eMFPB\_Level\_1\_2*  
*eMFPB\_Level\_1\_3*  
*eMFPB\_Level\_2*  
*eMFPB\_Level\_2\_1*  
*eMFPB\_Level\_2\_2*  
*eMFPB\_Level\_3*  
*eMFPB\_Level\_3\_1*  
*eMFPB\_Level\_3\_2*  
*eMFPB\_Level\_4*  
*eMFPB\_Level\_4\_1*  
*eMFPB\_Level\_4\_2*  
*eMFPB\_Level\_Reserved1*  
*eMFPB\_Level\_Reserved2*  
*eMFPB\_Level\_Reserved3*  
*eMFPB\_Level\_Reserved4*  
*eMFPB\_Level\_Reserved5*

Definition at line 11306 of file DCM.idl.

**8.21.3.36 enum DCM::DeviceControl::enMFPB\_MaxBitrateDescrMode\_t**

Enumerator:

*eMFPB\_MaxBitrateDescrMode\_Passthrough* Use the input descriptor (default value)  
*eMFPB\_MaxBitrateDescrMode\_Generate* An ES level maximum bitrate descriptor will be generated that matches the bitrate after transcoding. Any service level descriptor is passed through.

Definition at line 10413 of file DCM.idl.

**8.21.3.37 enum DCM::DeviceControl::enMFPB\_MetaDataPass\_t**

Setting of how meta data should be passed between decoder and encoder.

Version

Release 10.20

Enumerator:

*enMFPB\_MetaDataCfg\_Auto* Pass Meta data from decoder to encoder automatically. The result depend on varous factors but the state can be checked with eg.

See also

[MFPB\\_DD\\_MetaDecStatusGetL](#)

*enMFPB\_MetaDataCfg\_Manual* No Meta data is passed from decoder to encoder. The encoder meta data is generated based on the manual settings. (eg.

See also

[MFPB\\_DolbyAudioCfgSetL](#) )

*enMFPB\_MetaDataCfg\_Reserved1* For Future functionality.

*enMFPB\_MetaDataCfg\_Reserved2* For Future functionality.

*enMFPB\_MetaDataCfg\_Reserved3* For Future functionality.

*enMFPB\_MetaDataCfg\_Reserved4* For Future functionality.

*enMFPB\_MetaDataCfg\_Reserved5* For Future functionality.

*enMFPB\_MetaDataCfg\_Reserved6* For Future functionality.

Definition at line 12747 of file DCM.idl.

#### 8.21.3.38 enum DCM::DeviceControl::enMFPB\_MR\_FrameRate\_t

Enumerator:

*eMFPB\_MR\_FrameRate\_30Hz*

*eMFPB\_MR\_FrameRate\_29\_97Hz*

*eMFPB\_MR\_FrameRate\_25Hz*

*eMFPB\_MR\_FrameRate\_23\_98Hz*

*eMFPB\_MR\_FrameRate\_24Hz*

*eMFPB\_MR\_FrameRate\_15Hz*

*eMFPB\_MR\_FrameRate\_14\_99Hz*

*eMFPB\_MR\_FrameRate\_12\_5Hz*

*eMFPB\_MR\_FrameRate\_12Hz*

*eMFPB\_MR\_FrameRate\_11\_99Hz*

*eMFPB\_MR\_FrameRate\_10Hz*

*eMFPB\_MR\_FrameRate\_9\_99Hz*

*eMFPB\_MR\_FrameRate\_50Hz*

*eMFPB\_MR\_FrameRate\_59\_94Hz*

*eMFPB\_MR\_FrameRate\_60Hz*

*eMFPB\_MR\_FrameRate\_Reserved4* Reserved for future use.

*eMFPB\_MR\_FrameRate\_Reserved5* Reserved for future use.

*eMFPB\_MR\_FrameRate\_Reserved6* Reserved for future use.

*eMFPB\_MR\_FrameRate\_Reserved7* Reserved for future use.

*eMFPB\_MR\_FrameRate\_Reserved8* Reserved for future use.

*eMFPB\_MR\_FrameRate\_Reserved9* Reserved for future use.

*eMFPB\_MR\_FrameRate\_Reserved10* Reserved for future use.

Definition at line 11280 of file DCM.idl.

**8.21.3.39 enum DCM::DeviceControl::enMFPB\_PAFF**

Picture Adaptive Frame Field Encoding.

Enumerator:

*enMFPB\_PAFF\_MBAFF*  
*enMFPB\_PAFF\_PAFF*  
*enMFPB\_PAFF\_Reserved1* Reserved for future use.  
*enMFPB\_PAFF\_Reserved2* Reserved for future use.  
*enMFPB\_PAFF\_Reserved3* Reserved for future use.  
*enMFPB\_PAFF\_Reserved4* Reserved for future use.  
*enMFPB\_PAFF\_Reserved5* Reserved for future use.  
*enMFPB\_PAFF\_Reserved6* Reserved for future use.

Definition at line 11158 of file DCM.idl.

**8.21.3.40 enum DCM::DeviceControl::enMFPB\_Profile\_t**

Enumerator:

*eMFPB\_Profile\_FollowInput* Applies to Mpeg2 and AVC, Reserved for future use.  
*eMFPB\_Profile\_Baseline* Applies to AVC, Reserved for future use.  
*eMFPB\_Profile\_ConstrainedBaseline* Tools shared by baseline and main profile. Reserved for future use.  
*eMFPB\_Profile\_Main* Applies to Mpeg2 and AVC (except Transrating AVC HD). Default for - Mpeg2 and Avc SD.  
*eMFPB\_Profile\_High* Applies to AVC (except Transrating AVC SD). Default for AVC HD.  
*eMFPB\_Profile\_Reserved1* Reserved for future use.  
*eMFPB\_Profile\_Reserved2* Reserved for future use.  
*eMFPB\_Profile\_Reserved3* Reserved for future use.  
*eMFPB\_Profile\_Reserved4* Reserved for future use.  
*eMFPB\_Profile\_Reserved5* Reserved for future use.  
*eMFPB\_Profile\_Reserved6* Reserved for future use.

Definition at line 10922 of file DCM.idl.

**8.21.3.41 enum DCM::DeviceControl::enMFPB\_Resources**

Types of MFP resources.

Version

Release 10.10

Enumerator:

*eMFPB\_Res\_Audio* Audio resources.  
*eMFPB\_Res\_Reserved1* Reserved for future use.  
*eMFPB\_Res\_Reserved2* Reserved for future use.

*eMFPB\_Res\_Reserved3* Reserved for future use.  
*eMFPB\_Res\_Reserved4* Reserved for future use.  
*eMFPB\_Res\_Reserved5* Reserved for future use.  
*eMFPB\_Res\_Reserved6* Reserved for future use.  
*eMFPB\_Res\_Reserved7* Reserved for future use.  
*eMFPB\_Res\_Reserved8* Reserved for future use.  
*eMFPB\_Res\_Reserved9* Reserved for future use.

Definition at line 10289 of file DCM.idl.

#### 8.21.3.42 enum DCM::DeviceControl::enMFPB\_SlotType\_t

Enumerator:

*eMFPB\_SlotType\_SD* SD slot type.  
*eMFPB\_SlotType\_HD* HD slot type.  
*eMFPB\_SlotType\_AudioOnly* Services passed to this slot type, are only able to process audio.  
*eMFPB\_SlotType\_MultiRes* V12.0: services passed to this slot type can only have multiple resolution settings.  
*eMFPB\_SlotType\_Reserved5* Reserved for future use.  
*eMFPB\_SlotType\_Reserved6* Reserved for future use.  
*eMFPB\_SlotType\_Reserved7* Reserved for future use.  
*eMFPB\_SlotType\_Reserved8* Reserved for future use.

Definition at line 10393 of file DCM.idl.

#### 8.21.3.43 enum DCM::DeviceControl::enMFPB\_VertResolution\_t

Enumerator:

*eMFPB\_VR\_FollowInput* Height follows the height of the input.  
*eMFPB\_VR\_CustomResolution* Reserved for future use.  
*eMFPB\_VR\_96* Height in pixels, applies to PIP, reserved for future use.  
*eMFPB\_VR\_128* Reserved for future use.  
*eMFPB\_VR\_144* Height in pixels, applies to PIP, reserved for future use.  
*eMFPB\_VR\_176* Reserved for future use.  
*eMFPB\_VR\_180* Height in pixels, reserved for future use.  
*eMFPB\_VR\_192* Height in pixels, applies to PIP, reserved for future use.  
*eMFPB\_VR\_216* Height in pixels, reserved for future use.  
*eMFPB\_VR\_240* Height in pixels, reserved for future use.  
*eMFPB\_VR\_270* Height in pixels, reserved for future use.  
*eMFPB\_VR\_288* Height in pixels, reserved for future use.  
*eMFPB\_VR\_360* Height in pixels, reserved for future use.  
*eMFPB\_VR\_384* Reserved for future use.  
*eMFPB\_VR\_396* Height in pixels, reserved for future use.  
*eMFPB\_VR\_480i* Height in pixels, applies to SD downconversion.

*eMFPB\_VR\_480* Height in pixels, applies to SD, Reserved for future use.  
*eMFPB\_VR\_540* Height in pixels, reserved for future use.  
*eMFPB\_VR\_576i* Height in pixels, applies to SD downconversion.  
*eMFPB\_VR\_576* Height in pixels, applies to SD, Reserved for future use.  
*eMFPB\_VR\_720p* Height in pixels, applies to HD, Reserved for future use.  
*eMFPB\_VR\_1080i* Height in pixels, applies to SD, Reserved for future use.  
*eMFPB\_VR\_1152* Height in pixels, reserved for future use.  
*eMFPB\_VR\_1080p* Reserved for future use.  
*eMFPB\_VR\_280* Reserved for future use.  
*eMFPB\_VR\_Reserved3* Reserved for future use.  
*eMFPB\_VR\_Reserved4* Reserved for future use.  
*eMFPB\_VR\_Reserved5* Reserved for future use.  
*eMFPB\_VR\_Reserved6* Reserved for future use.  
*eMFPB\_VR\_Reserved7* Reserved for future use.  
*eMFPB\_VR\_Reserved8* Reserved for future use.  
*eMFPB\_VR\_Reserved9* Reserved for future use.  
*eMFPB\_VR\_Reserved10* Reserved for future use.  
*eMFPB\_VR\_Reserved11* Reserved for future use.  
*eMFPB\_VR\_Reserved12* Reserved for future use.  
*eMFPB\_VR\_Reserved13* Reserved for future use.  
*eMFPB\_VR\_Reserved14* Reserved for future use.  
*eMFPB\_VR\_Reserved15* Reserved for future use.  
*eMFPB\_VR\_Reserved16* Reserved for future use.  
*eMFPB\_VR\_Reserved17* Reserved for future use.  
*eMFPB\_VR\_Reserved18* Reserved for future use.  
*eMFPB\_VR\_Reserved19* Reserved for future use.  
*eMFPB\_VR\_Reserved20* Reserved for future use.  
*eMFPB\_VR\_Reserved21* Reserved for future use.  
*eMFPB\_VR\_Reserved22* Reserved for future use.  
*eMFPB\_VR\_Reserved23* Reserved for future use.  
*eMFPB\_VR\_Reserved24* Reserved for future use.  
*eMFPB\_VR\_Reserved25* Reserved for future use.  
*eMFPB\_VR\_Reserved26* Reserved for future use.  
*eMFPB\_VR\_Reserved27* Reserved for future use.  
*eMFPB\_VR\_Reserved28* Reserved for future use.  
*eMFPB\_VR\_Reserved29* Reserved for future use.  
*eMFPB\_VR\_Reserved30* Reserved for future use.

Definition at line 10773 of file DCM.idl.



## 8.21.3.44 enum DCM::DeviceControl::enMFPB\_VideoCodec\_t

Enumerator:

*eMFPB\_VideoCodec\_Unknown*  
*eMFPB\_VideoCodec\_Mpeg2* MPEG2 standard.  
*eMFPB\_VideoCodec\_Avc* H.264 / AVC standard.  
*eMFPB\_VideoCodec\_Reserved1* Reserved for future use.  
*eMFPB\_VideoCodec\_Reserved2* Reserved for future use.  
*eMFPB\_VideoCodec\_Reserved3* Reserved for future use.  
*eMFPB\_VideoCodec\_Reserved4* Reserved for future use.

Definition at line 10623 of file DCM.idl.

## 8.21.3.45 enum DCM::DeviceControl::enMFPB\_VideoEncoderCodec\_t

Enumerator:

*eMFPB\_VideoEncoderCodec\_Mpeg2* MPEG2 standard.  
*eMFPB\_VideoEncoderCodec\_Avc* H.264 / AVC standard.  
*eMFPB\_VideoEncoderCodec\_Reserved3* Reserved for future use.  
*eMFPB\_VideoEncoderCodec\_Reserved4* Reserved for future use.  
*eMFPB\_VideoEncoderCodec\_Reserved5* Reserved for future use.  
*eMFPB\_VideoEncoderCodec\_Reserved6* Reserved for future use.

Definition at line 10752 of file DCM.idl.

## 8.21.3.46 enum DCM::DeviceControl::enMFPB\_VideoEncodingMode\_t

Enumerator:

*eMFPB\_VideoEncodingMode\_Transrate* Transrate video.  
*eMFPB\_VideoEncodingMode\_Transcode* Transcode video.  
*eMFPB\_VideoEncodingMode\_Reserved3* Reserved for future use.  
*eMFPB\_VideoEncodingMode\_Reserved4* Reserved for future use.  
*eMFPB\_VideoEncodingMode\_Reserved5* Reserved for future use.  
*eMFPB\_VideoEncodingMode\_Reserved6* Reserved for future use.

Definition at line 10742 of file DCM.idl.

## 8.21.3.47 enum DCM::DeviceControl::enMFPB\_VideoMode\_t

Enumerator:

*eMFPB\_VideoMode\_SD* SD service.  
*eMFPB\_VideoMode\_HD* HD service (future: Maximum HD, will be SD if input is SD)  
*eMFPB\_VideoMode\_SD\_Down* Decoder can be HD or SD, output will be (downconverted) SD,  
reserved for future use.  
*eMFPB\_VideoMode\_Reserved3* Reserved for future use.  
*eMFPB\_VideoMode\_Reserved4* Reserved for future use.  
*eMFPB\_VideoMode\_Reserved5* Reserved for future use.  
*eMFPB\_VideoMode\_Reserved6* Reserved for future use.

Definition at line 10762 of file DCM.idl.

## 8.21.4 Function Documentation

**8.21.4.1** void DCM::DeviceControl::MFP\_RequestReset ( in unsigned short *BoardNr* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Request to restart the DCM\_MFP application and restore the current state.

## Version

Release 10.0 Description of how a Multi format processor (MFP) board should handle audio processing. Only used for 9900 chassis

**8.21.4.2** void DCM::DeviceControl::MFPB\_AACAudioCfgGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_AacAudioCfgList\_t *AacAudioCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the AAC audio processing settings.

## Parameters

|     |                        |                                                                      |
|-----|------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>         | The Multi format processor (MFP) board to retrieve the settings from |
| in  | <i>ServiceList</i>     | The list of services of interest.                                    |
| out | <i>AacAudioCfgList</i> | The AAC Audio settings                                               |

## Exceptions

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |
|------------------------|-------------------------------------------------------------------------------------------------------|

## Version

Release 10.0

**8.21.4.3** void DCM::DeviceControl::MFPB\_AACAudioCfgSetL ( in unsigned short *BoardNr*, in MFPB\_AacAudioCfgList\_t *AacAudioCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

Set the AAC audio processing settings.

## Parameters

|    |                        |                                                                        |
|----|------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>         | The Multi format processor (MFP) board for which to configure encoding |
| in | <i>AacAudioCfgList</i> | The AAC Audio settings                                                 |

## Note

The TrackingID must always correspond to a encoder tracking ID configured with AudioEncodeCfg-SetL(..). \*

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>• audio processing is disabled on this board</li> <li>• invalid input references are used (RefSvc)</li> <li>• no Audio encoder was configured</li> <li>• related audio encoder with format different from LC_AAC, HE_AACv1, HE_AACv2</li> <li>• if the configuration cannot be accepted by the processing engine mode</li> <li>• invalid settings are passed:               <ul style="list-style-type: none"> <li>– IMainMixingLevel too high/low</li> <li>– ...</li> </ul> </li> <li>• There are no more processing resources available</li> </ul> |

**Version**

Release 10.0

**8.21.4.4** void DCM::DeviceControl::MFPB\_AudioDecodeCfgDeleteL ( in unsigned short *BoardNr*, in MFPB\_ServiceTrackingID\_List\_t *ToDelete* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Remove the Audio decoding settings.

**Parameters**

|    |                 |                                                                        |
|----|-----------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>  | The Multi format processor (MFP) board for which to configure decoding |
| in | <i>ToDelete</i> | A list of IDs for Audio decoding settings to delete                    |

**Exceptions**

|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                    |
| <i>OperationFailed</i> | In case: <ul style="list-style-type: none"> <li>• invalid input references are used (RefSvc, TrackingID).</li> </ul> |

**Version**

Release 10.0

**8.21.4.5** void DCM::DeviceControl::MFPB\_AudioDecodeCfgGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_AudioDecodeCfgList\_t *AudioDecodeCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the Audio decoding settings.

**Parameters**

|     |                            |                                                                                     |
|-----|----------------------------|-------------------------------------------------------------------------------------|
| in  | <i>BoardNr</i>             | The Multi format processor (MFP) board to retrieve the settings from                |
| in  | <i>ServiceList</i>         | The list of services of interest, an empty list returns all services                |
| out | <i>AudioDecode-CfgList</i> | The Audio decoding settings, this is an empty list when the service has no settings |

**Exceptions**

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |
|------------------------|-------------------------------------------------------------------------------------------------------|

**Version**

Release 10.0

**8.21.4.6** void DCM::DeviceControl::MFPB\_AudioDecodeCfgSetL ( in unsigned short *BoardNr*, in MFPB\_AudioDecodeCfgList\_t *AudioDecodeCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

Set the Audio decoding settings.

**Parameters**

|    |                            |                                                                        |
|----|----------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>             | The Multi format processor (MFP) board for which to configure decoding |
| in | <i>AudioDecode-CfgList</i> | The Audio decoding settings                                            |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                                                                                                       |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>audio processing is disabled on this board</li> <li>invalid input references are used (RefSvc)</li> <li>if the configuration cannot be accepted by the processing engine mode</li> <li>there are no more processing resources available</li> <li>invalid settings are passed</li> </ul> |

**Version**

Release 10.0

**8.21.4.7** void DCM::DeviceControl::MFPB\_AudioDecodeExtraAACGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out AudioDecodeExtraAACCfgList\_t *AudioDecodeExtraAACCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get extra AAC audio decoding settings.

As soon as a audio decoder exists this fuction returns extra AAC audio decoding options.

#### Parameters

|     |                                     |                                                                      |
|-----|-------------------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>                      | The Multi format processor (MFP) board to retrieve the settings from |
| in  | <i>ServiceList</i>                  | The list of services of interest, an empty list returns all services |
| out | <i>AudioDecode-ExtraAACCfg-List</i> | Extra AAC audio decoder configurations for services                  |

#### Exceptions

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |
|------------------------|-------------------------------------------------------------------------------------------------------|

#### Version

Release 10.10

**8.21.4.8** void DCM::DeviceControl::MFPB\_AudioDecodeExtraAACSetL ( in unsigned short *BoardNr*, in AudioDecodeExtraAACCfgList\_t *AudioDecodeExtraAACCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Update extra AAC audio decoding settings.

The function can only be used on existing a audio decoders (update).

#### Parameters

|    |                                     |                                                                        |
|----|-------------------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>                      | The Multi format processor (MFP) board for which to configure decoding |
| in | <i>AudioDecode-ExtraAACCfg-List</i> | Extra AAC audio decoder configurations for services                    |

#### Exceptions

|                        |                                                                                                                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>audio processing is disabled on this board</li> <li>invalid input references are used (RefSvc)</li> <li>the refered audio decoder does not exist</li> <li>invalid settings are passed</li> </ul> |

**Version**

Release 10.10

**8.21.4.9** void DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbyGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_AudioDecodeExtraDolbyCfgList\_t *AudioDecodeExtraDolbyCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get extra Dolby audio decoding settings.

As soon as a audio decoder exists this fuction returns extra Dolby audio decoding options.

**Parameters**

|     |                                       |                                                                      |
|-----|---------------------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>                        | The Multi format processor (MFP) board to retrieve the settings from |
| in  | <i>ServiceList</i>                    | The list of services of interest, an empty list returns all services |
| out | <i>AudioDecode-ExtraDolby-CfgList</i> | Extra Dolby audio decoder configurations for services                |

**Exceptions**

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |
|------------------------|-------------------------------------------------------------------------------------------------------|

**Version**

Release 10.10

**8.21.4.10** void DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbySetL ( in unsigned short *BoardNr*, in MFPB\_AudioDecodeExtraDolbyCfgList\_t *AudioDecodeExtraDolbyCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Update extra Dolby audio decoding settings.

The function can only be used on existing a audio decoders (update).

**Parameters**

|    |                                       |                                                                        |
|----|---------------------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>                        | The Multi format processor (MFP) board for which to configure decoding |
| in | <i>AudioDecode-ExtraDolby-CfgList</i> | Extra Dolby audio decoder configurations for services                  |

**Exceptions**

|                        |                                                                                                                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                        |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>• audio processing is disabled on this board</li> <li>• invalid input references are used (RefSvc)</li> <li>• the refered audio decoder does not exist</li> <li>• invalid settings are passed</li> </ul> |

**Version**

Release 10.10

**8.21.4.11** void DCM::DeviceControl::MFPB\_AudioDecodeExtraMPEGL2GetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_AudioDecodeExtraMPEGL2CfgList\_t *AudioDecodeExtraMPEGL2CfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get extra MPEG1-L2 audio decoding options.

As soon as a audio decoder exists this fuction returns extra audio decoding options.

**Parameters**

|     |                                        |                                                                      |
|-----|----------------------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>                         | The Multi format processor (MFP) board to retrieve the settings from |
| in  | <i>ServiceList</i>                     | The list of services of interest, an empty list returns all services |
| out | <i>AudioDecode-ExtraMPEG-L2CfgList</i> | Extra audio decoder configurations for services                      |

**Exceptions**

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>• invalid input references are used (RefSvc)</li> </ul> |
|------------------------|---------------------------------------------------------------------------------------------------------|

**Version**

Release 10.10

**8.21.4.12** void DCM::DeviceControl::MFPB\_AudioDecodeExtraMPEGL2SetL ( in unsigned short *BoardNr*, in MFPB\_AudioDecodeExtraMPEGL2CfgList\_t *AudioDecodeExtraMPEGL2CfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Update extra MPEG1-L2 audio decoding options.

The function can only be used on existing a audio decoders (update).

**Parameters**

|    |                                        |                                                                        |
|----|----------------------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>                         | The Multi format processor (MFP) board for which to configure decoding |
| in | <i>AudioDecode-ExtraMPEG-L2CfgList</i> | Extra audio decoder configurations for services                        |

**Exceptions**

|                        |                                                                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                         |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>• audio processing is disabled on this board</li> <li>• invalid input references are used (RefSvc)</li> <li>• the referred audio decoder does not exist</li> <li>• invalid settings are passed</li> </ul> |

**Version**

Release 10.10

**8.21.4.13** void DCM::DeviceControl::MFPB\_AudioEncodeCfgDeleteL ( in unsigned short *BoardNr*, in MFPB\_ServiceTrackingID\_List\_t *ToDelete* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Remove the Audio encoding settings and all settings related to it (AAC/Dolby audio settings)

**Parameters**

|    |                 |                                                                        |
|----|-----------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>  | The Multi format processor (MFP) board for which to configure encoding |
| in | <i>ToDelete</i> | A list of IDs for Audio encoding settings to delete                    |

**Exceptions**

|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                    |
| <i>OperationFailed</i> | In case: <ul style="list-style-type: none"> <li>• invalid input references are used (RefSvc, TrackingID).</li> </ul> |

**Version**

Release 10.0

**8.21.4.14** void DCM::DeviceControl::MFPB\_AudioEncodeCfgGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_AudioEncodeCfgList\_t *AudioEncodeCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the Audio encoding settings.



**Parameters**

|     |                            |                                                                      |
|-----|----------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>             | The Multi format processor (MFP) board to retrieve the settings from |
| in  | <i>ServiceList</i>         | The list of services of interest.                                    |
| out | <i>AudioEncode-CfgList</i> | The Audio encoding settings                                          |

**Exceptions**

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |
|------------------------|-------------------------------------------------------------------------------------------------------|

**Version**

Release 10.0

**8.21.4.15** void DCM::DeviceControl::MFPB\_AudioEncodeCfgSetL ( in unsigned short *BoardNr*, in MFPB\_AudioEncodeCfgList\_t *AudioEncodeCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

Set the Audio encoding settings.

**Parameters**

|    |                            |                                                                        |
|----|----------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>             | The Multi format processor (MFP) board for which to configure encoding |
| in | <i>AudioEncode-CfgList</i> | The Audio encoding settings                                            |

**Note**

The TrackingID must always correspond to a Audio decode tracking ID configured with AudioDecode-CfgSetL(..). \*

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                                                                                                                                                                                                                                     |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>audio processing is disabled on this board</li> <li>invalid input references are used (RefSvc)</li> <li>no Audio decode was configured</li> <li>if the configuration cannot be accepted by the processing engine mode</li> <li>invalid settings are passed: <ul style="list-style-type: none"> <li>bitrate too high/low</li> <li>...</li> </ul> </li> <li>There are no more processing resources available</li> </ul> |

**Version**

Release 10.0

**8.21.4.16** void DCM::DeviceControl::MFPB\_AudioInformationGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_AudioServiceInformationList\_t *AudioInfoList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get audio status information.

Information is only available for audio streams which are currently being processed.

**Parameters**

|     |                      |                                                                      |
|-----|----------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>       | The Multi format processor (MFP) board for which to get information. |
| in  | <i>ServiceList</i>   | The list of services of interest.                                    |
| out | <i>AudioInfoList</i> | The status of the audio streams.                                     |

**Exceptions**

|                        |                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                               |
| <i>OperationFailed</i> | In case: <ul style="list-style-type: none"> <li>invalid input references are used (BoardNr, RefSvc).</li> </ul> |

**Version**

Release 10.10

**8.21.4.17** void DCM::DeviceControl::MFPB\_CaptionServiceCfgGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_Svc\_CaptionInfoList\_t *Svc\_CaptionInfoList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the MFP closed caption descriptor settings.

**Parameters**

|     |                             |                                              |
|-----|-----------------------------|----------------------------------------------|
| in  | <i>BoardNr</i>              | The MFP board to retrieve the settings from. |
| in  | <i>ServiceList</i>          | The list of services of interest.            |
| out | <i>Svc_Caption-InfoList</i> | A list of caption service settings.          |

**Exceptions**

|                        |                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a MFP board.                                      |
| <i>OperationFailed</i> | In case: <ul style="list-style-type: none"> <li>invalid input references are used.</li> </ul> |

**Version**

Release 10.0

**8.21.4.18** void DCM::DeviceControl::MFPB\_CaptionServiceCfgSetL ( in unsigned short *BoardNr*, in MFPB\_Svc\_CaptionInfoList\_t *Svc\_CaptionInfoList* ) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Set the MFP closed caption descriptor settings.

**Parameters**

|    |                             |                                               |
|----|-----------------------------|-----------------------------------------------|
| in | <i>BoardNr</i>              | The MFP board on which to apply the settings. |
| in | <i>Svc_Caption-InfoList</i> | A list of caption service settings,           |

**Exceptions**

|                        |                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a transcoder board.                                                                      |
| <i>OperationFailed</i> | In case: <ul style="list-style-type: none"> <li>invalid input references are used.</li> <li>invalid settings were passed.</li> </ul> |

**Version**

Release 10.0

**8.21.4.19** void DCM::DeviceControl::MFPB\_DD\_MetaDecStatusGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_ServiceDD\_MetaDecStatusList\_t *StatusList* ) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get Dolby meta data status on the decoder.

Information is only available for audio streams which are currently being processed.

**Parameters**

|     |                    |                                                                      |
|-----|--------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>     | The Multi format processor (MFP) board for which to get information. |
| in  | <i>ServiceList</i> | The list of services of interest.                                    |
| out | <i>StatusList</i>  | The status of the Dolby meta data status on the decoder side.        |

**Exceptions**

|                        |                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                               |
| <i>OperationFailed</i> | In case: <ul style="list-style-type: none"> <li>invalid input references are used (BoardNr, RefSvc).</li> </ul> |

**Version**

Release 10.20

**8.21.4.20** void DCM::DeviceControl::MFPB\_DolbyAudioCfgGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_DolbyAudioCfgList\_t *DolbyAudioCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the dolby audio processing settings.

**Parameters**

|     |                           |                                                                      |
|-----|---------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>            | The Multi format processor (MFP) board to retrieve the settings from |
| in  | <i>ServiceList</i>        | The list of services of interest.                                    |
| out | <i>DolbyAudio-CfgList</i> | The dolby Audio settings                                             |

**Exceptions**

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |
|------------------------|-------------------------------------------------------------------------------------------------------|

**Version**

Release 10.0

**8.21.4.21** void DCM::DeviceControl::MFPB\_DolbyAudioCfgGetL\_V2 ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_DolbyAudioCfgList\_V2\_t *DolbyAudioCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the dolby audio processing settings.

**Parameters**

|     |                           |                                                                      |
|-----|---------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>            | The Multi format processor (MFP) board to retrieve the settings from |
| in  | <i>ServiceList</i>        | The list of services of interest.                                    |
| out | <i>DolbyAudio-CfgList</i> | The dolby Audio settings                                             |

**Exceptions**

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |
|------------------------|-------------------------------------------------------------------------------------------------------|

## Version

Release 10.0

**8.21.4.22** void DCM::DeviceControl::MFPB\_DolbyAudioCfgSetL ( in unsigned short *BoardNr*, in MFPB\_DolbyAudioCfgList\_t *DolbyAudioCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

Set the dolby audio processing settings.

## Parameters

|    |                           |                                                                        |
|----|---------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>            | The Multi format processor (MFP) board for which to configure encoding |
| in | <i>DolbyAudio-CfgList</i> | The dolby Audio settings                                               |

## Note

The TrackingID must always correspond to a encoder tracking ID configured with AudioEncodeCfg-SetL(..). \*

## Exceptions

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>• audio processing is disabled on this board</li> <li>• invalid input references are used (RefSvc)</li> <li>• no Audio encoder was configured</li> <li>• Audio encoder with format different from DolbyDigitalPlus or DolbyDigital-Pulse was configured</li> <li>• if the configuration cannot be accepted by the processing engine mode</li> <li>• invalid settings are passed: <ul style="list-style-type: none"> <li>– IMainMixingLevel too high/low</li> <li>– ...</li> </ul> </li> <li>• There are no more processing resources available</li> </ul> |

## Version

Release 10.0

**8.21.4.23** void DCM::DeviceControl::MFPB\_DolbyAudioCfgSetL\_V2 ( in unsigned short *BoardNr*, in MFPB\_DolbyAudioCfgList\_V2\_t *DolbyAudioCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

Set the dolby audio processing settings.

## Parameters

|    |                           |                                                                        |
|----|---------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>            | The Multi format processor (MFP) board for which to configure encoding |
| in | <i>DolbyAudio-CfgList</i> | The dolby Audio settings                                               |

**Note**

The TrackingID must always correspond to a encoder tracking ID configured with AudioEncodeCfg-SetL(..). \*

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>• audio processing is disabled on this board</li> <li>• invalid input references are used (RefSvc)</li> <li>• no Audio encoder was configured</li> <li>• Audio encoder with format different from DolbyDigitalPlus or DolbyDigital-Pulse was configured</li> <li>• if the configuration cannot be accepted by the processing engine mode</li> <li>• invalid settings are passed:               <ul style="list-style-type: none"> <li>– IMainMixingLevel too high/low</li> <li>– ...</li> </ul> </li> <li>• There are no more processing resources available</li> </ul> |

**Version**

Release 10.0

**8.21.4.24** void DCM::DeviceControl::MFPB\_GetBoardCfg ( in unsigned short *SlotNbr*, out MFPB\_BoardCfg\_t *MFPB\_BoardCfg* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get Board Configuration of a Multi format processor (MFP) board.

**Parameters**

|     |                      |                                                              |
|-----|----------------------|--------------------------------------------------------------|
| in  | <i>SlotNbr</i>       | The slot number of a MFP board to retrieve the settings from |
| out | <i>MFPB_BoardCfg</i> | The MFP board configuration.                                 |

**Exceptions**

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not a MFP board. |
|-----------------------|----------------------------------------------------------|

**Version**

Release 10.0

**8.21.4.25** void DCM::DeviceControl::MFPB\_GetEngineUnitCfg ( in unsigned short *BoardNr*, in RefProcessorEngineUnitList\_t *RefProcessorEngineUnitList*, out MFPB\_EngineUnitCfgList\_t *EngineUnitCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the current configuration of the Multi format processor (MFP) engine unit.

This configuration determines how many SD, HD, audio, PIP and multi resolution streams the MFP engine can handle.

**Parameters**

|     |                                   |                                                                                                                 |
|-----|-----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| in  | <i>BoardNr</i>                    | The Multi format processor (MFP) board to retrieve the settings from                                            |
| in  | <i>RefProcessorEngineUnitList</i> | List of engine references to get information about. If empty, the function returns information for all engines. |
| out | <i>EngineUnitCfgList</i>          | A list of configuration data                                                                                    |

**Exceptions**

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.   |
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>Invalid ProcessorEngine reference</li> </ul> |

**Version**

Release 10.0

**8.21.4.26** void DCM::DeviceControl::MFPB\_GetMfpResourcesLoad ( in unsigned short *BoardNr*, out ResourcesLoad\_List\_t *ResourcesLoad\_List* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get measured load of MFP resources.

**Parameters**

|     |                           |                                              |
|-----|---------------------------|----------------------------------------------|
| in  | <i>BoardNr</i>            | The MFP board to retrieve the settings from. |
| out | <i>ResourcesLoad_List</i> | List with the load of MFP resources.         |

**Exceptions**

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not a MFP board. |
|-----------------------|----------------------------------------------------------|

**Version**

Release 10.10

**8.21.4.27** void DCM::DeviceControl::MFPB\_GetMPEG2FramePicturesCfg ( in unsigned short *BoardNr*, out MFPB\_MPEG2FramePicturesCfgList\_t *MPEG2FramePicturesCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the current configuration of MPEG-2 Frame Pictures engine unit.

#### Parameters

|     |                                  |                                                                      |
|-----|----------------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>                   | The Multi format processor (MFP) board to retrieve the settings from |
| out | <i>MPEG2FramePicturesCfgList</i> | List of all "MPEG-2 Frame Picture configurations" for this board.    |

#### Exceptions

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board. |
|-----------------------|-----------------------------------------------------------------------------------|

#### Version

Release 10.0.11

**8.21.4.28** void DCM::DeviceControl::MFPB\_GetMultiResABR ( in unsigned short *SlotNbr*, in IPS\_RefSvc\_List\_t *RefSvcList*, out MFPB\_MultiResABR\_List\_t *MultiResABR\_List* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the ABR settings for all multi resolution services belonging to one particular main service.

#### Parameters

|     |                         |                                                                                             |
|-----|-------------------------|---------------------------------------------------------------------------------------------|
| in  | <i>SlotNbr</i>          | The Multi format processor (MFP) board to apply the settings to                             |
| in  | <i>RefSvcList</i>       | A list of multi resolution services to delete.                                              |
| out | <i>MultiResABR_List</i> | The ABR settings for all multi resolution services belonging to the specified main service. |

#### Exceptions

|                        |                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr is not a Multi format processor (MFP) board.                                       |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid references are used (RefSvc)</li> </ul> |

#### Version

Release 11.10

**8.21.4.29** void DCM::DeviceControl::MFPB\_MetaDataCfgGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_ServiceMetaDataCfgList\_t *MetaDataCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the audio meta data configuration.



**Parameters**

|     |                         |                                                                      |
|-----|-------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>          | The Multi format processor (MFP) board to retrieve the settings from |
| in  | <i>ServiceList</i>      | The list of services of interest.                                    |
| out | <i>MetaDataCfg-List</i> | The with the current settings                                        |

**Exceptions**

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |
|------------------------|-------------------------------------------------------------------------------------------------------|

**Version**

Release 10.20

**8.21.4.30** void DCM::DeviceControl::MFPB\_MetaDataCfgSetL ( in unsigned short *BoardNr*, in MFPB\_ServiceMetaDataCfgList\_t *MetaDataCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

Set the audio meta data configuration.

**Parameters**

|    |                         |                                                                        |
|----|-------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>          | The Multi format processor (MFP) board for which to configure encoding |
| in | <i>MetaDataCfg-List</i> | The settings list                                                      |

**Note**

The TrackingID must always correspond to a encoder tracking ID configured with AudioDecodeCfg-SetL(..). \*

**Exceptions**

|                        |                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                       |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>audio processing is disabled on this board</li> <li>invalid input references are used (RefSvc)</li> <li>no Audio decoder was configured</li> <li>invalid settings are passed</li> </ul> |

**Version**

Release 10.20

**8.21.4.31** void DCM::DeviceControl::MFPB\_MPEGL2AudioCfgGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_MPEGL2AudioCfgList\_t *MPEGL2AudioCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the MPEG1-L2 audio processing settings.

**Parameters**

|     |                            |                                                                      |
|-----|----------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>             | The Multi format processor (MFP) board to retrieve the settings from |
| in  | <i>ServiceList</i>         | The list of services of interest.                                    |
| out | <i>MPEGL2-AudioCfgList</i> | The MPEG1-L2 Audio settings                                          |

**Exceptions**

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |
|------------------------|-------------------------------------------------------------------------------------------------------|

**Version**

Release 10.10

**8.21.4.32** void DCM::DeviceControl::MFPB\_MPEGL2AudioCfgSetL ( in unsigned short *BoardNr*, in MFPB\_MPEGL2AudioCfgList\_t *MPEGL2AudioCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

Set the MPEG1-L2 audio processing settings.

**Parameters**

|    |                            |                                                                        |
|----|----------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>             | The Multi format processor (MFP) board for which to configure encoding |
| in | <i>MPEGL2-AudioCfgList</i> | The MPEG1-L2 Audio settings                                            |

**Note**

The TrackingID must always correspond to a encoder tracking ID configured with AudioEncodeCfg-SetL(..). \*

## Exceptions

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                                                                                                                                                                                                                                  |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>• audio processing is disabled on this board</li> <li>• invalid input references are used (RefSvc)</li> <li>• no Audio encoder was configured</li> <li>• related audio encoder with format different from MPEG1-L2</li> <li>• if the configuration cannot be accepted by the processing engine mode</li> <li>• invalid settings are passed:</li> <li>• There are no more processing resources available</li> </ul> |

## Version

Release 10.10

**8.21.4.33** void DCM::DeviceControl::MFPB\_MultiResVideoEncodeCfgGetL ( in IPS\_RefSvc\_t *MainService*, out MFPB\_MultiResVideoEncodeCfgList\_t *MultiResVideoEncodeCfgList* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the video encoding settings for the multi resolution services belonging to one particular main service.

## Parameters

|     |                                   |                                                                                                        |
|-----|-----------------------------------|--------------------------------------------------------------------------------------------------------|
| in  | <i>MainService</i>                | The main service from which to retrieve the multi resolution video encodings settings                  |
| out | <i>MultiResVideoEncodeCfgList</i> | The video encoding settings for all multi resolution services belonging to the specified main service. |

## Exceptions

|                        |                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr is not a Multi format processor (MFP) board.                                         |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>• invalid references are used (RefSvc)</li> </ul> |

## Version

Release 11.10

**8.21.4.34** void DCM::DeviceControl::MFPB\_MultiResVideoEncodeCfgSetL ( in IPS\_RefSvc\_t *MainService*, in MFPB\_MultiResVideoEncodeCfgList\_t *MultiResVideoEncodeCfgList* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Create and or set the video encoding settings for one or more multi resolution services belonging to one particular main service.

**Parameters**

|    |                                   |                                                                              |
|----|-----------------------------------|------------------------------------------------------------------------------|
| in | <i>MainService</i>                | The main service for which to configure the multi resolution video encodings |
| in | <i>MultiResVideoEncodeCfgList</i> | The video encoding settings for each multi resolution service                |

**Note**

The TrackingID must always correspond to a video decode tracking ID configured with VideoDecodeCfgSetL(..). The [IPS\\_RefSvc\\_t](#) parameter in the VideoEncodeCfgList must match with an earlier created multi resolution service unless it is set to INVALID (all fields set to INVALID\_REF or INVALID\_SID). When set to INVALID, a new multi resolution service will be created with the given video settings. A new [IPS\\_RefSvc\\_t](#) and User Tag will be automatically allocated for this service.

**Exceptions**

|                        |                                                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                                   |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>• invalid references are used (RefSvc)</li> <li>• no video decode was configured</li> <li>• if the configuration cannot be accepted by the processing engine mode</li> <li>• invalid settings are passed</li> </ul> |

**Version**

Release 11.10

**8.21.4.35** void DCM::DeviceControl::MFPB\_MultiResVideoEncodeDeleteL ( in IPS\_RefSvc\_t *MainService*, in IPS\_RefSvc\_List\_t *RefSvcList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete one or more multi resolution services on a MFP board from a particular main service.

The service is only deleted if the service is not passed anymore to an IO board.

**Parameters**

|    |                    |                                                                                     |
|----|--------------------|-------------------------------------------------------------------------------------|
| in | <i>MainService</i> | The main service from which to delete the multi resolution video encodings settings |
| in | <i>RefSvcList</i>  | A list of multi resolution services to delete.                                      |

**Exceptions**

|                       |                                                                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | In case <ul style="list-style-type: none"> <li>• Invalid references are used (RefSvcList).</li> <li>• Inconsistency between BoardNr &amp; ServiceList[x].Ref.PhysRef.BoardNr.</li> <li>• At least one of the services is passed to an IO board.</li> </ul> |
| <i>OpNotAllowed</i>   | not logged in                                                                                                                                                                                                                                              |
| <i>OpNotSupported</i> | if BoardNr is not the board number of a MFP board                                                                                                                                                                                                          |

**Version**

Release 11.10

**8.21.4.36** void DCM::DeviceControl::MFPB\_ResetEngine ( in unsigned short *SlotNr*, in unsigned short *EngineNr* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Request to reset a DCM\_MFP engine.

**Parameters**

|    |                 |                                                              |
|----|-----------------|--------------------------------------------------------------|
| in | <i>SlotNr</i>   | The slot number of a MFP board to retrieve the settings from |
| in | <i>EngineNr</i> | The engine to be reset (range: 0..3)                         |

**Version**

Release 10.0

**8.21.4.37** void DCM::DeviceControl::MFPB\_ServiceCfgGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_ServiceCfgList\_t *ServiceCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the Multi format processor (MFP) service settings.

**Parameters**

|     |                       |                                                                       |
|-----|-----------------------|-----------------------------------------------------------------------|
| in  | <i>BoardNr</i>        | The Multi format processor (MFP) board to retrieve the settings from. |
| in  | <i>ServiceList</i>    | The list of services of interest.                                     |
| out | <i>ServiceCfgList</i> | A list of Multi format processor (MFP) service settings.              |

**Exceptions**

|                        |                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.             |
| <i>OperationFailed</i> | In case: <ul style="list-style-type: none"> <li>invalid input references are used.</li> </ul> |

**Version**

Release 10.0

**8.21.4.38** void DCM::DeviceControl::MFPB\_ServiceCfgSetL ( in unsigned short *BoardNr*, in MFPB\_ServiceCfgList\_t *ServiceCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Add or update the Multi format processor (MFP) service settings.

**Parameters**

|    |                       |                                                                                                                                                                                                                 |
|----|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>BoardNr</i>        | The Multi format processor (MFP) board to set the settings to.                                                                                                                                                  |
| in | <i>ServiceCfgList</i> | A list of Multi format processor (MFP) service settings. When there is no match between Service and RefProcessorEngine, the service will be added. When there is a match, the service configuration is updated. |

**Exceptions**

|                        |                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                              |
| <i>OperationFailed</i> | In case: <ul style="list-style-type: none"> <li>• invalid input Service references are used.</li> <li>• invalid input ProcessorEngine references are used.</li> <li>• invalid settings were passed.</li> </ul> |

**Version**

Release 10.0

**8.21.4.39** void DCM::DeviceControl::MFPB\_ServiceComponentsGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_ServiceComponentsList\_t *ServiceComponentsList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the list of components which can be processed.

**Parameters**

|     |                                |                                                                       |
|-----|--------------------------------|-----------------------------------------------------------------------|
| in  | <i>BoardNr</i>                 | The Multi format processor (MFP) board to retrieve the settings from. |
| in  | <i>ServiceList</i>             | The list of services of interest.                                     |
| out | <i>Service-Components-List</i> | The list of components per service                                    |

**Exceptions**

|                        |                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                             |
| <i>OperationFailed</i> | In case: <ul style="list-style-type: none"> <li>• invalid input references are used (ServiceList).</li> </ul> |

**Version**

Release 10.0

**8.21.4.40** void DCM::DeviceControl::MFPB\_SetBoardCfg ( in unsigned short *SlotNbr*, in MFPB\_BoardCfg\_t *MFPB\_BoardCfg* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Apply a new Board Configuration on a Multi format processor (MFP) board.

This can cause interruptions in some or all processed streams.

**Parameters**

|    |                       |                                        |
|----|-----------------------|----------------------------------------|
| in | <i>SlotNbr</i>        | The slot number for the affected board |
| in | <i>MFPB_Board-Cfg</i> | The new board configuration            |

**Exceptions**

|                        |                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>Invalid board configuration</li> <li>Impossible to set mode without deleting audio or video components first</li> </ul> |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 10.0

**8.21.4.41** void DCM::DeviceControl::MFPB\_SetEngineUnitCfg ( in unsigned short *BoardNr*, in MFPB\_EngineUnitCfgList\_t *EngineUnitCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Apply a new processor engine unit configuration on a Multi format processor (MFP) board.

This can cause interruptions in some or all processed streams.

**Parameters**

|    |                           |                                                                |
|----|---------------------------|----------------------------------------------------------------|
| in | <i>BoardNr</i>            | The Multi format processor (MFP) board to set the settings to. |
| in | <i>EngineUnit-CfgList</i> | A list of configuration data                                   |

**Exceptions**

|                        |                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                            |
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>Invalid ProcessorEngine reference</li> <li>Invalid enMFPB_EngineMode</li> <li>Engine contains services, prohibiting a specific mode change</li> </ul> |

**Version**

Release 10.0

**8.21.4.42** void DCM::DeviceControl::MFPB\_SetMPEG2FramePicturesCfg ( in unsigned short *BoardNr*, in MFPB\_MPEG2FramePicturesCfgList\_t *MPEG2FramePicturesCfgList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Apply a new configuration of MPEG-2 Frame Pictures on a Multi format processor (MFP) engine unit.

**Parameters**

|    |                                   |                                                                |
|----|-----------------------------------|----------------------------------------------------------------|
| in | <i>BoardNr</i>                    | The Multi format processor (MFP) board to set the settings to. |
| in | <i>MPEG2Frame-PicturesCfgList</i> | A list of configuration data                                   |

**Exceptions**

|                        |                                                                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                  |
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>• Invalid ProcessorEngine reference</li> <li>• Invalid enMFPB_EngineMode</li> <li>• Engine contains services, prohibiting a specific mode change</li> </ul> |

**Version**

Release 10.0.11

**8.21.4.43** void DCM::DeviceControl::MFPB\_SetMultiResABR ( in unsigned short *SlotNr*, in MFPB\_MultiResABR\_List\_t *MultiResABR\_List* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the ABR settings for all multi resolution services belonging to one particular main service.

**Parameters**

|    |                         |                                                                                             |
|----|-------------------------|---------------------------------------------------------------------------------------------|
| in | <i>SlotNr</i>           | The Multi format processor (MFP) board to apply the settings to                             |
| in | <i>MultiResABR_List</i> | The ABR settings for all multi resolution services belonging to the specified main service. |

**Exceptions**

|                        |                                                                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr is not a Multi format processor (MFP) board.                                                                                                                                |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>• invalid references are used (RefSvc)</li> <li>• not a service on a MultiRes engine</li> <li>• Invalid ABR settings supplied</li> </ul> |

**Version**

Release 11.10

**8.21.4.44** void DCM::DeviceControl::MFPB\_VideoDecodeCfgDeleteL ( in unsigned short *BoardNr*, in MFPB\_ServiceTrackingID\_List\_t *ToDelete* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove the video decoding settings.

**Parameters**

|    |                 |                                                                        |
|----|-----------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>  | The Multi format processor (MFP) board for which to configure decoding |
| in | <i>ToDelete</i> | A list of IDs for video decoding settings to delete                    |



**Exceptions**

|                        |                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                  |
| <i>OperationFailed</i> | In case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc, TrackingID).</li> </ul> |

**Version**

Release 10.0

**8.21.4.45** void DCM::DeviceControl::MFPB\_VideoDecodeCfgGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_VideoDecodeCfgList\_t *VideoDecodeCfgList* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the video decoding settings.

**Parameters**

|     |                            |                                                                      |
|-----|----------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>             | The Multi format processor (MFP) board to retrieve the settings from |
| in  | <i>ServiceList</i>         | The list of services of interest.                                    |
| out | <i>VideoDecode-CfgList</i> | The video decoding settings                                          |

**Version**

Release 10.0

**8.21.4.46** void DCM::DeviceControl::MFPB\_VideoDecodeCfgSetL ( in unsigned short *BoardNr*, in MFPB\_VideoDecodeCfgList\_t *VideoDecodeCfgList* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the video decoding settings.

**Parameters**

|    |                            |                                                                        |
|----|----------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>             | The Multi format processor (MFP) board for which to configure decoding |
| in | <i>VideoDecode-CfgList</i> | The video decoding settings                                            |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                                                   |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> <li>if the configuration cannot be accepted by the processing engine mode</li> <li>there are no more processing resources available</li> <li>invalid settings are passed</li> </ul> |

**Version**

Release 10.0

**8.21.4.47** void DCM::DeviceControl::MFPB\_VideoEncodeCfgDeleteL ( in unsigned short *BoardNr*, in MFPB\_ServiceTrackingID\_List\_t *ToDelete* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove the video encoding settings and related closed caption settings.

**Parameters**

|    |                 |                                                     |
|----|-----------------|-----------------------------------------------------|
| in | <i>BoardNr</i>  | The Multi format processor (MFP) board              |
| in | <i>ToDelete</i> | A list of IDs for video encoding settings to delete |

**Exceptions**

|                        |                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                  |
| <i>OperationFailed</i> | In case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc, TrackingID).</li> </ul> |

**Version**

Release 10.0

**8.21.4.48** void DCM::DeviceControl::MFPB\_VideoEncodeCfgGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_VideoEncodeCfgList\_t *VideoEncodeCfgList* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the video encoding settings.

**Parameters**

|     |                           |                                                                      |
|-----|---------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>            | The Multi format processor (MFP) board to retrieve the settings from |
| in  | <i>ServiceList</i>        | The list of services of interest.                                    |
| out | <i>VideoEncodeCfgList</i> | The video encoding settings                                          |

**Exceptions**

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                     |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |

**Version**

Release 10.0

**8.21.4.49** void DCM::DeviceControl::MFPB\_VideoEncodeCfgSetL ( in unsigned short *BoardNr*, in MFPB\_VideoEncodeCfgList\_t *VideoEncodeCfgList* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the video encoding settings.

#### Parameters

|    |                           |                                                                        |
|----|---------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>            | The Multi format processor (MFP) board for which to configure encoding |
| in | <i>VideoEncodeCfgList</i> | The video encoding settings                                            |

#### Note

The TrackingID must always correspond to a video decode tracking ID configured with VideoDecodeCfgSetL(..). \*

#### Exceptions

|                        |                                                                                                                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                                         |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>• invalid input references are used (RefSvc)</li> <li>• no video decode was configured</li> <li>• if the configuration cannot be accepted by the processing engine mode</li> <li>• invalid settings are passed</li> </ul> |

#### Version

Release 10.0

**8.21.4.50** void DCM::DeviceControl::MFPB\_VideoEncodeCfgV2GetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_VideoEncodeCfgV2List\_t *VideoEncodeCfgList* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the video encoding settings.

#### Parameters

|     |                           |                                                                      |
|-----|---------------------------|----------------------------------------------------------------------|
| in  | <i>BoardNr</i>            | The Multi format processor (MFP) board to retrieve the settings from |
| in  | <i>ServiceList</i>        | The list of services of interest.                                    |
| out | <i>VideoEncodeCfgList</i> | The video encoding settings                                          |

**Exceptions**

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                     |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |

**Version**

Release 11.10

**8.21.4.51** void DCM::DeviceControl::MFPB\_VideoEncodeCfgV2SetL ( in unsigned short *BoardNr*, in MFPB\_VideoEncodeCfgV2List\_t *VideoEncodeCfgList* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the video encoding settings.

**Parameters**

|    |                           |                                                                        |
|----|---------------------------|------------------------------------------------------------------------|
| in | <i>BoardNr</i>            | The Multi format processor (MFP) board for which to configure encoding |
| in | <i>VideoEncodeCfgList</i> | The video encoding settings                                            |

**Note**

The TrackingID must always correspond to a video decode tracking ID configured with VideoDecodeCfgSetL(..). \*

**Exceptions**

|                        |                                                                                                                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                                                                                                                                                                                 |
| <i>OperationFailed</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> <li>no video decode was configured</li> <li>if the configuration cannot be accepted by the processing engine mode</li> <li>invalid settings are passed</li> </ul> |

**Version**

Release 11.10

**8.21.4.52** void DCM::DeviceControl::MFPB\_VideoInformationGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out MFPB\_VideoServiceInformationList\_t *VideoInfoList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get video status information.

Information is only available for video streams which are currently being processed.

**Parameters**

|     |                      |                                                                           |
|-----|----------------------|---------------------------------------------------------------------------|
| in  | <i>BoardNr</i>       | The Multi format processor (MFP) board for which to configure processing. |
| in  | <i>ServiceList</i>   | The list of services of interest.                                         |
| out | <i>VideoInfoList</i> | The status of the video streams.                                          |

**Exceptions**

|                        |                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main or the board is not a Multi format processor (MFP) board.                               |
| <i>OperationFailed</i> | In case: <ul style="list-style-type: none"><li>• invalid input references are used (BoardNr, RefSvc).</li></ul> |

**Version**

Release 10.0

## 8.22 Logo Insertion

This contains specific types, enums and methods for controlling the logo insertion part of the device.

### Classes

- struct [DCM::DeviceControl::FontCfg\\_t](#)
- struct [DCM::DeviceControl::LogoCfg\\_t](#)
- struct [DCM::DeviceControl::MaximumLogoSize\\_t](#)
- struct [DCM::DeviceControl::LogoCfgFileNumber\\_t](#)
- struct [DCM::DeviceControl::Color\\_t](#)
- struct [DCM::DeviceControl::BannerCfg\\_t](#)
- struct [DCM::DeviceControl::BannerCfg\\_V2\\_t](#)
- struct [DCM::DeviceControl::TC\\_Banner\\_t](#)
- struct [DCM::DeviceControl::TC\\_Banner\\_V2\\_t](#)
- struct [DCM::DeviceControl::TC\\_BannerSettings\\_t](#)
- struct [DCM::DeviceControl::TC\\_BannerStatus\\_t](#)
- struct [DCM::DeviceControl::TC\\_ServiceBannerStatus\\_t](#)
- struct [DCM::DeviceControl::TC\\_LogoSetting\\_t](#)
- struct [DCM::DeviceControl::TC\\_Logo\\_t](#)
- struct [DCM::DeviceControl::TC\\_LogoDisplay\\_t](#)
- struct [DCM::DeviceControl::TC\\_ServiceLogoDisplay\\_t](#)
- struct [DCM::DeviceControl::TC\\_LogoCfg\\_t](#)
- struct [DCM::DeviceControl::TC\\_LogoKeyerID\\_t](#)
- struct [DCM::DeviceControl::TC\\_ServiceLogoCfgID\\_t](#)

### Typedefs

- typedef unsigned long [DCM::DeviceControl::FontCfgID\\_t](#)
- typedef sequence< FontCfgID\_t > [DCM::DeviceControl::FontCfgID\\_List\\_t](#)
- typedef sequence< FontCfg\_t > [DCM::DeviceControl::FontCfgList\\_t](#)
- typedef unsigned long [DCM::DeviceControl::LogoCfgID\\_t](#)
- typedef sequence< LogoCfgID\_t > [DCM::DeviceControl::LogoCfgID\\_List\\_t](#)
- typedef sequence< LogoCfg\_t > [DCM::DeviceControl::LogoCfgList\\_t](#)
- typedef unsigned long [DCM::DeviceControl::LogoFileNumber\\_t](#)
- typedef sequence< LogoCfgFileNumber\_t > [DCM::DeviceControl::LogoCfgFileNumberList\\_t](#)
- typedef unsigned long [DCM::DeviceControl::BannerCfgID\\_t](#)
- typedef sequence< BannerCfgID\_t > [DCM::DeviceControl::BannerCfgID\\_List\\_t](#)
- typedef sequence< BannerCfg\_t > [DCM::DeviceControl::BannerCfgList\\_t](#)
- typedef sequence< BannerCfg\_V2\_t > [DCM::DeviceControl::BannerCfg\\_V2\\_List\\_t](#)
- typedef sequence< TC\_BannerSettings\_t > [DCM::DeviceControl::TC\\_BannerSettingsList\\_t](#)
- typedef sequence< TC\_BannerStatus\_t > [DCM::DeviceControl::TC\\_BannerStatusList\\_t](#)
- typedef sequence< TC\_ServiceBannerStatus\_t > [DCM::DeviceControl::TC\\_ServiceBannerStatusList\\_t](#)
- typedef unsigned long [DCM::DeviceControl::TC\\_ServiceLogoID\\_t](#)
- typedef sequence< TC\_LogoSetting\_t > [DCM::DeviceControl::TC\\_LogoSettingList\\_t](#)
- typedef sequence< TC\_Logo\_t > [DCM::DeviceControl::TC\\_LogoList\\_t](#)
- typedef sequence< TC\_LogoDisplay\_t > [DCM::DeviceControl::TC\\_LogoDisplayList\\_t](#)
- typedef sequence< TC\_ServiceLogoDisplay\_t > [DCM::DeviceControl::TC\\_ServiceLogoDisplayList\\_t](#)

- typedef sequence < TC\_LogoCfg\_t > DCM::DeviceControl::TC\_LogoCfgList\_t
- typedef unsigned long DCM::DeviceControl::TC\_KeyerID\_t
- typedef sequence < TC\_LogoKeyerID\_t > DCM::DeviceControl::TC\_LogoKeyerID\_List\_t
- typedef sequence < TC\_ServiceLogoCfgID\_t > DCM::DeviceControl::TC\_ServiceLogoCfgID\_List\_t

### Enumerations

- enum DCM::DeviceControl::enTC\_BoardMode\_t { DCM::DeviceControl::eTC\_BoardMode\_Transcode, DCM::DeviceControl::eTC\_BoardMode\_LogoInsertion, DCM::DeviceControl::eTC\_BoardMode\_Reserved\_1, DCM::DeviceControl::eTC\_BoardMode\_Reserved\_2, DCM::DeviceControl::eTC\_BoardMode\_Reserved\_3, DCM::DeviceControl::eTC\_BoardMode\_Reserved\_4, DCM::DeviceControl::eTC\_BoardMode\_Reserved\_5 }
- Processor board mode.*
- enum DCM::DeviceControl::enLogoPayoutMode\_t { DCM::DeviceControl::eLogoPayout\_Normal, DCM::DeviceControl::eLogoPayout\_Palindrome, DCM::DeviceControl::eLogoPayout\_Reserved\_1, DCM::DeviceControl::eLogoPayout\_Reserved\_2, DCM::DeviceControl::eLogoPayout\_Reserved\_3 }
- Playout modes for animated logos.*
- enum DCM::DeviceControl::enTC\_LogoCfgSource\_t { DCM::DeviceControl::eTC\_LogoCfgSource\_Local, DCM::DeviceControl::eTC\_LogoCfgSource\_SCTE35, DCM::DeviceControl::eTC\_LogoCfgSource\_Reserved1, DCM::DeviceControl::eTC\_LogoCfgSource\_Reserved2, DCM::DeviceControl::eTC\_LogoCfgSource\_Reserved3 }
- enum DCM::DeviceControl::enBannerTextEncoding\_t { DCM::DeviceControl::eBannerTextEncoding\_ASCII, DCM::DeviceControl::eBannerTextEncoding\_UTF8, DCM::DeviceControl::eBannerTextEncoding\_Reserved3, DCM::DeviceControl::eBannerTextEncoding\_Reserved4, DCM::DeviceControl::eBannerTextEncoding\_Reserved5, DCM::DeviceControl::eBannerTextEncoding\_Reserved6, DCM::DeviceControl::eBannerTextEncoding\_Reserved7, DCM::DeviceControl::eBannerTextEncoding\_Reserved8 }
- enum DCM::DeviceControl::enBannerStopType\_t { DCM::DeviceControl::eBannerStopType\_Direct, DCM::DeviceControl::eBannerStopType\_OnLoop, DCM::DeviceControl::eBannerStopType\_Reserved3, DCM::DeviceControl::eBannerStopType\_Reserved4, DCM::DeviceControl::eBannerStopType\_Reserved5, DCM::DeviceControl::eBannerStopType\_Reserved6, DCM::DeviceControl::eBannerStopType\_Reserved7, DCM::DeviceControl::eBannerStopType\_Reserved8 }
- enum DCM::DeviceControl::enTC\_AllowedBanner\_t { DCM::DeviceControl::eTC\_AllowedBanner\_None, DCM::DeviceControl::eTC\_AllowedBanner\_Text\_Only, DCM::DeviceControl::eTC\_AllowedBanner\_Text\_Static, DCM::DeviceControl::eTC\_AllowedBanner\_Text\_Animated, DCM::DeviceControl::eTC\_AllowedBanner\_Reserved1, DCM::DeviceControl::eTC\_AllowedBanner\_Reserved2, DCM::DeviceControl::eTC\_AllowedBanner\_Reserved3, DCM::DeviceControl::eTC\_AllowedBanner\_Reserved4 }
- enum DCM::DeviceControl::enTC\_BannerPriority\_t { DCM::DeviceControl::eTC\_BannerPriority\_Keep\_Logos, DCM::DeviceControl::eTC\_BannerPriority\_Remove\_Logos, DCM::DeviceControl::eTC\_BannerPriority\_Reserved1, DCM::DeviceControl::eTC\_BannerPriority\_Reserved2, DCM::DeviceControl::eTC\_BannerPriority\_Reserved3 }
- enum DCM::DeviceControl::enTC\_EAS\_Control\_t { DCM::DeviceControl::eTC\_EAS\_Control\_Disabled, DCM::DeviceControl::eTC\_EAS\_Control\_Enabled, DCM::DeviceControl::eTC\_EAS\_Control\_Reserved1, DCM::DeviceControl::eTC\_EAS\_Control\_Reserved2, DCM::DeviceControl::eTC\_EAS\_Control\_Reserved3 }

## Functions

- void [DCM::DeviceControl::LogoLibrary\\_Add](#) (in LogoCfg\_t LogoCfg, in string FileFormat, in - ByteStream Logo) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add a logo to the logo library.*

- void [DCM::DeviceControl::LogoLibrary\\_ExportLogo](#) (in LogoCfgID\_t LogoCfgID, in string FileFormat, out ByteStream Logo) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Export (=download) a logo from the logo library.*

- void [DCM::DeviceControl::LogoLibrary\\_LogoCfgGetL](#) (in LogoCfgID\_List\_t LogoCfgID\_List, out LogoCfgList\_t LogoCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get information about logos in the logo library.*

- void [DCM::DeviceControl::LogoLibrary\\_LogoCfgSetL](#) (in LogoCfgList\_t LogoCfgList) raises (- Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update about certain logos in the logo library.*

- void [DCM::DeviceControl::LogoLibrary\\_LogoCfgDeleteL](#) (in LogoCfgID\_List\_t LogoCfgID\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove one or more logos from the logo library.*

- void [DCM::DeviceControl::LogoLibrary\\_LogoCfgFileNrGetL](#) (in LogoCfgID\_List\_t LogoCfgID\_List, out LogoCfgFileNumberList\_t LogoCfgFileNumbers) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the mapping between LogoCfgID and LogoFileNumber.*

- void [DCM::DeviceControl::LogoLibrary\\_LogoCfgFileNrSetL](#) (in LogoCfgFileNumberList\_t LogoCfgFileNumbers) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the mapping between LogoCfgID and LogoFileNumber.*

- void [DCM::DeviceControl::LogoLibrary\\_SetMaxLogoSize](#) (in MaximumLogoSize\_t MaxLogoSize) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set device-wide maximum logo size.*

- void [DCM::DeviceControl::LogoLibrary\\_GetMaxLogoSize](#) (out MaximumLogoSize\_t MaxLogoSize) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the device-wide maximum logo size.*

- void [DCM::DeviceControl::FontLibrary\\_Add](#) (in FontCfg\_t FontCfg, in string FileFormat, in ByteStream Font) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add a Font to the Font library.*

- void [DCM::DeviceControl::FontLibrary\\_FontCfgGetL](#) (in FontCfgID\_List\_t FontCfgID\_List, out - FontCfgList\_t FontCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get information about fonts in the font library.*

- void [DCM::DeviceControl::FontLibrary\\_FontCfgSetL](#) (in FontCfgList\_t FontCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update certain Fonts in the Font library.*

- void [DCM::DeviceControl::FontLibrary\\_FontCfgDeleteL](#) (in FontCfgID\_List\_t FontCfgID\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove one or more Fonts from the Font library.*

- void [DCM::DeviceControl::BannerLibrary\\_Add](#) (in BannerCfg\_t BannerCfg) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add a Banner to the Banner library.*

- void [DCM::DeviceControl::BannerLibrary\\_V2\\_Add](#) (in BannerCfg\_V2\_t BannerCfg) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)



*Add a Banner to the Banner library.*

- void [DCM::DeviceControl::BannerLibrary\\_BannerCfgGetL](#) (in BannerCfgID\_List\_t BannerCfgID\_List, out BannerCfgList\_t BannerCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get information about Banners in the Banner library.*

- void [DCM::DeviceControl::BannerLibrary\\_BannerCfg\\_V2\\_GetL](#) (in BannerCfgID\_List\_t BannerCfgID\_List, out BannerCfg\_V2\_List\_t BannerCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get information about Banners in the Banner library.*

- void [DCM::DeviceControl::BannerLibrary\\_BannerCfgSetL](#) (in BannerCfgList\_t BannerCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update certain Banners in the Banner library.*

- void [DCM::DeviceControl::BannerLibrary\\_BannerCfg\\_V2\\_SetL](#) (in BannerCfg\_V2\_List\_t BannerCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update certain Banners in the Banner library.*

- void [DCM::DeviceControl::BannerLibrary\\_BannerCfgDeleteL](#) (in BannerCfgID\_List\_t BannerCfgID\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove one or more Banners from the Banner library.*

- void [DCM::DeviceControl::TC\\_GetBoardMode](#) (in unsigned short BoardNr, out enTC\_BoardMode\_t enBoardMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the processor board mode.*

- void [DCM::DeviceControl::TC\\_SetBoardMode](#) (in unsigned short BoardNr, in enTC\_BoardMode\_t enBoardMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the processor board mode.*

- void [DCM::DeviceControl::TC\\_LogoCfgSetL](#) (in unsigned short BoardNr, in TC\_LogoCfgList\_t LogoCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update the logo settings on the logo processing board.*

- void [DCM::DeviceControl::TC\\_LogoKeyerGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t SvcList, out TC\_LogoKeyerID\_List\_t LogoKeyerIDs) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the current logo ID to keyer ID mapping.*

- void [DCM::DeviceControl::TC\\_LogoKeyerUpdateL](#) (in unsigned short BoardNr, in TC\_LogoKeyerID\_List\_t LogoKeyerIDs) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update the LogoID <-> Keyer ID mapping .*

- void [DCM::DeviceControl::TC\\_LogoAddL](#) (in unsigned short BoardNr, in TC\_ServiceLogoCfgID\_List\_t LogoToAdd) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Add one or more logo configurations to one or more services.*

- void [DCM::DeviceControl::TC\\_LogoDeleteL](#) (in unsigned short BoardNr, in TC\_ServiceLogoCfgID\_List\_t LogosToDelete) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove one or more logo configurations from one or more services.*

- void [DCM::DeviceControl::TC\\_LogoGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out TC\_LogoList\_t LogoList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get logo transcoding settings.*

- void [DCM::DeviceControl::TC\\_LogoDisplayL](#) (in unsigned short BoardNr, in TC\_ServiceLogoDisplayList\_t LogoDisplayList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update the display status of logos.*

- void [DCM::DeviceControl::TC\\_BannerSettingsGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out TC\_BannerSettingsList\_t BannerSettingsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the banner configuration.*
- void [DCM::DeviceControl::TC\\_BannerSettingsSetL](#) (in unsigned short BoardNr, in TC\_BannerSettingsList\_t BannerSettingsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Update the banner configuration.*
- void [DCM::DeviceControl::TC\\_StartBanner](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t - ServiceList, in TC\_Banner\_t Banner) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Start a banner.*
- void [DCM::DeviceControl::TC\\_StartBanner\\_V2](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, in TC\_Banner\_V2\_t Banner) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Start a banner.*
- void [DCM::DeviceControl::TC\\_BannerStatusGetL](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t ServiceList, out TC\_ServiceBannerStatusList\_t Banners) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Retrieve the list of banner statuses.*
- void [DCM::DeviceControl::StartEAS](#) (in string SAME, in string AlertText, in unsigned long BannerTimeout) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Start an EAS message.*
- void [DCM::DeviceControl::StartEAS\\_V2](#) (in string SAME, in string AlertText, in unsigned long - BannerTimeout, in enBannerTextEncoding\_t AlertTextEncoding) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Start an EAS message.*
- void [DCM::DeviceControl::StartEAS\\_V3](#) (in string SAME, in string AlertText, in unsigned long - BannerTimeout, in enBannerTextEncoding\_t AlertTextEncoding, in unsigned short TextLoopCount) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Start an EAS message.*
- void [DCM::DeviceControl::TC\\_StopBanner](#) (in unsigned short BoardNr, in IPS\_Service\_List\_t - ServiceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Stop any banner in the service This will stop any active banner (and EAS) in all of the listed services.*
- void [DCM::DeviceControl::StopBanners](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Stop all banners on all services This will stop any active banner (and EAS) on any logo insertion board.*
- unsigned short [DCM::DeviceControl::TC\\_GetDSP\\_Number](#) (in unsigned short SlotNbr, in IPS\_RefPid\_t RefPid) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the DSP currently processing a certain PID.*

### 8.22.1 Detailed Description

This contains specific types, enums and methods for controlling the logo insertion part of the device.

### 8.22.2 Typedef Documentation

#### 8.22.2.1 typedef sequence<BannerCfg\_V2\_t> DCM::DeviceControl::BannerCfg\_V2\_List\_t

Definition at line 13983 of file DCM.idl.

**8.22.2.2** `typedef sequence<BannerCfgID_t> DCM::DeviceControl::BannerCfgID_List_t`

Definition at line 13879 of file DCM.idl.

**8.22.2.3** `typedef unsigned long DCM::DeviceControl::BannerCfgID_t`

Definition at line 13878 of file DCM.idl.

**8.22.2.4** `typedef sequence<BannerCfg_t> DCM::DeviceControl::BannerCfgList_t`

Definition at line 13916 of file DCM.idl.

**8.22.2.5** `typedef sequence<FontCfgID_t> DCM::DeviceControl::FontCfgID_List_t`

Definition at line 13780 of file DCM.idl.

**8.22.2.6** `typedef unsigned long DCM::DeviceControl::FontCfgID_t`

Definition at line 13779 of file DCM.idl.

**8.22.2.7** `typedef sequence<FontCfg_t> DCM::DeviceControl::FontCfgList_t`

Definition at line 13793 of file DCM.idl.

**8.22.2.8** `typedef sequence<LogoCfgFileNumber_t> DCM::DeviceControl::LogoCfgFileNumberList_t`

Definition at line 13860 of file DCM.idl.

**8.22.2.9** `typedef sequence<LogoCfgID_t> DCM::DeviceControl::LogoCfgID_List_t`

Definition at line 13796 of file DCM.idl.

**8.22.2.10** `typedef unsigned long DCM::DeviceControl::LogoCfgID_t`

Definition at line 13795 of file DCM.idl.

**8.22.2.11** `typedef sequence<LogoCfg_t> DCM::DeviceControl::LogoCfgList_t`

Definition at line 13845 of file DCM.idl.

**8.22.2.12** `typedef unsigned long DCM::DeviceControl::LogoFileNumber_t`

Definition at line 13853 of file DCM.idl.

**8.22.2.13** `typedef sequence<TC_BannerSettings_t> DCM::DeviceControl::TC_BannerSettingsList_t`

Definition at line 14045 of file DCM.idl.

**8.22.2.14** `typedef sequence<TC_BannerStatus_t> DCM::DeviceControl::TC_BannerStatusList_t`

Definition at line 14052 of file DCM.idl.

**8.22.2.15** `typedef unsigned long DCM::DeviceControl::TC_KeyerID_t`

Definition at line 14102 of file DCM.idl.

**8.22.2.16** `typedef sequence<TC_LogoCfg_t> DCM::DeviceControl::TC_LogoCfgList_t`

Definition at line 14100 of file DCM.idl.

**8.22.2.17** `typedef sequence<TC_LogoDisplay_t> DCM::DeviceControl::TC_LogoDisplayList_t`

Definition at line 14084 of file DCM.idl.

**8.22.2.18** `typedef sequence<TC_LogoKeyerID_t> DCM::DeviceControl::TC_LogoKeyerID_List_t`

Definition at line 14110 of file DCM.idl.

**8.22.2.19** `typedef sequence<TC_Logo_t> DCM::DeviceControl::TC_LogoList_t`

Definition at line 14076 of file DCM.idl.

**8.22.2.20** `typedef sequence<TC_LogoSetting_t> DCM::DeviceControl::TC_LogoSettingList_t`

Definition at line 14069 of file DCM.idl.

**8.22.2.21** `typedef sequence<TC_ServiceBannerStatus_t> DCM::DeviceControl::TC_ServiceBanner-  
StatusList_t`

Definition at line 14059 of file DCM.idl.

**8.22.2.22** `typedef sequence<TC_ServiceLogoCfgID_t> DCM::DeviceControl::TC_ServiceLogoCfgID-  
_List_t`

Definition at line 14118 of file DCM.idl.

**8.22.2.23** `typedef sequence<TC_ServiceLogoDisplay_t> DCM::DeviceControl::TC_ServiceLogo-  
DisplayList_t`

Definition at line 14091 of file DCM.idl.

**8.22.2.24** `typedef unsigned long DCM::DeviceControl::TC_ServiceLogoID_t`

Definition at line 14061 of file DCM.idl.

### 8.22.3 Enumeration Type Documentation

**8.22.3.1** `enum DCM::DeviceControl::enBannerStopType_t`

Enumerator:

- eBannerStopType\_Direct* Banner stops immediately.
- eBannerStopType\_OnLoop* Banner stops if current loop is finished.
- eBannerStopType\_Reserved3* Reserved for future use.
- eBannerStopType\_Reserved4* Reserved for future use.
- eBannerStopType\_Reserved5* Reserved for future use.
- eBannerStopType\_Reserved6* Reserved for future use.
- eBannerStopType\_Reserved7* Reserved for future use.
- eBannerStopType\_Reserved8* Reserved for future use.

Definition at line 13931 of file DCM.idl.

**8.22.3.2 enum DCM::DeviceControl::enBannerTextEncoding\_t**

Enumerator:

*eBannerTextEncoding\_ASCII* ASCII-Latin1 ISO-8859-1.  
*eBannerTextEncoding\_UTF8* UTF-8.  
*eBannerTextEncoding\_Reserved3* Reserved for future use.  
*eBannerTextEncoding\_Reserved4* Reserved for future use.  
*eBannerTextEncoding\_Reserved5* Reserved for future use.  
*eBannerTextEncoding\_Reserved6* Reserved for future use.  
*eBannerTextEncoding\_Reserved7* Reserved for future use.  
*eBannerTextEncoding\_Reserved8* Reserved for future use.

Definition at line 13918 of file DCM.idl.

**8.22.3.3 enum DCM::DeviceControl::enLogoPlayoutMode\_t**

Playout modes for animated logos.

Enumerator:

*eLogoPlayout\_Normal* once forward  
*eLogoPlayout\_Palindrome* once forward, once reverse  
*eLogoPlayout\_Reserved\_1* not supported yet  
*eLogoPlayout\_Reserved\_2* not supported yet  
*eLogoPlayout\_Reserved\_3* not supported yet

Definition at line 13799 of file DCM.idl.

**8.22.3.4 enum DCM::DeviceControl::enTC\_AllowedBanner\_t**

Enumerator:

*eTC\_AllowedBanner\_None*  
*eTC\_AllowedBanner\_Text\_Only* A text crawl without logos.  
*eTC\_AllowedBanner\_Text\_Static* A text crawl and one or more static logos.  
*eTC\_AllowedBanner\_Text\_Animated* A text crawl and one or more static or animated logos.  
*eTC\_AllowedBanner\_Reserved1* Reserved for future use.  
*eTC\_AllowedBanner\_Reserved2* Reserved for future use.  
*eTC\_AllowedBanner\_Reserved3* Reserved for future use.  
*eTC\_AllowedBanner\_Reserved4* Reserved for future use.

Definition at line 14008 of file DCM.idl.

**8.22.3.5 enum DCM::DeviceControl::enTC\_BannerPriority\_t**

Enumerator:

*eTC\_BannerPriority\_Keep\_Logos* Do not remove active logos (unless there are not enough resources)

*eTC\_BannerPriority\_Remove\_Logos* Remove logos before activating the banner.

*eTC\_BannerPriority\_Reserved1* Reserved for future use.

*eTC\_BannerPriority\_Reserved2* Reserved for future use.

*eTC\_BannerPriority\_Reserved3* Reserved for future use.

Definition at line 14020 of file DCM.idl.

#### 8.22.3.6 enum DCM::DeviceControl::enTC\_BoardMode\_t

Processor board mode.

Enumerator:

*eTC\_BoardMode\_Transcode* Processor board only supports video, audio & PIP transcodes.

*eTC\_BoardMode\_LogoInsertion* Processor board only supports logo insertion.

*eTC\_BoardMode\_Reserved\_1* not supported yet

*eTC\_BoardMode\_Reserved\_2* not supported yet

*eTC\_BoardMode\_Reserved\_3* not supported yet

*eTC\_BoardMode\_Reserved\_4* not supported yet

*eTC\_BoardMode\_Reserved\_5* not supported yet

Definition at line 13768 of file DCM.idl.

#### 8.22.3.7 enum DCM::DeviceControl::enTC\_EAS\_Control\_t

Enumerator:

*eTC\_EAS\_Control\_Disabled* Do not insert EAS alerts.

*eTC\_EAS\_Control\_Enabled* Insert EAS alerts.

*eTC\_EAS\_Control\_Reserved1* Reserved for future use.

*eTC\_EAS\_Control\_Reserved2* Reserved for future use.

*eTC\_EAS\_Control\_Reserved3* Reserved for future use.

Definition at line 14029 of file DCM.idl.

#### 8.22.3.8 enum DCM::DeviceControl::enTC\_LogoCfgSource\_t

Enumerator:

*eTC\_LogoCfgSource\_Local*

*eTC\_LogoCfgSource\_SCTE35*

*eTC\_LogoCfgSource\_Reserved1*

*eTC\_LogoCfgSource\_Reserved2*

*eTC\_LogoCfgSource\_Reserved3*

Definition at line 13862 of file DCM.idl.

## 8.22.4 Function Documentation

**8.22.4.1** void DCM::DeviceControl::BannerLibrary\_Add ( in BannerCfg\_t *BannerCfg* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a Banner to the Banner library.

## Parameters

|    |                  |                                   |
|----|------------------|-----------------------------------|
| in | <i>BannerCfg</i> | Configuration data of the Banner. |
|----|------------------|-----------------------------------|

## Exceptions

|                       |                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>the Banner is not a valid Banner.</li> <li>no more entries are available (maximum 256 Banners).</li> <li>a Banner of the same name already exists in the Banner library.</li> </ul> |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Version

Release 8.2

**8.22.4.2** void DCM::DeviceControl::BannerLibrary\_BannerCfg\_V2\_GetL ( in BannerCfgID\_List\_t *BannerCfgID\_List*, out BannerCfg\_V2\_List\_t *BannerCfgList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get information about Banners in the Banner library.

## Parameters

|     |                         |                                                                                                           |
|-----|-------------------------|-----------------------------------------------------------------------------------------------------------|
| in  | <i>BannerCfgID_List</i> | List of Banner ID's to get information about. If empty, the function returns information for all Banners. |
| out | <i>BannerCfgList</i>    | A list of Banner configuration data                                                                       |

## Version

Release 8.9

**8.22.4.3** void DCM::DeviceControl::BannerLibrary\_BannerCfg\_V2\_SetL ( in BannerCfg\_V2\_List\_t *BannerCfgList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update certain Banners in the Banner library.

## Parameters

|    |                      |                                     |
|----|----------------------|-------------------------------------|
| in | <i>BannerCfgList</i> | A list of Banner configuration data |
|----|----------------------|-------------------------------------|

**Exceptions**

|                       |                                                                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>• one of the Banner ID's is not valid.</li> <li>• one of elements in the list is not valid, e.g. if one of the elements. defines a Banner name which another Banner already has as name.</li> </ul> |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.9

**8.22.4.4** void DCM::DeviceControl::BannerLibrary\_BannerCfgDeleteL ( in BannerCfgID\_List\_t *BannerCfgID\_List* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove one or more Banners from the Banner library.

**Parameters**

|    |                         |                               |
|----|-------------------------|-------------------------------|
| in | <i>BannerCfgID_List</i> | ID's of the Banners to remove |
|----|-------------------------|-------------------------------|

**Exceptions**

|                       |                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case of: <ul style="list-style-type: none"> <li>• one of the Banner ID's is invalid.</li> <li>• one of the Banner configurations is in use.</li> </ul> |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.2

**8.22.4.5** void DCM::DeviceControl::BannerLibrary\_BannerCfgGetL ( in BannerCfgID\_List\_t *BannerCfgID\_List*, out BannerCfgList\_t *BannerCfgList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get information about Banners in the Banner library.

**Parameters**

|     |                         |                                                                                                           |
|-----|-------------------------|-----------------------------------------------------------------------------------------------------------|
| in  | <i>BannerCfgID_List</i> | List of Banner ID's to get information about. If empty, the function returns information for all Banners. |
| out | <i>BannerCfgList</i>    | A list of Banner configuration data                                                                       |



**Version**

Release 8.2

**8.22.4.6** void DCM::DeviceControl::BannerLibrary\_BannerCfgSetL ( in BannerCfgList\_t *BannerCfgList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update certain Banners in the Banner library.

**Parameters**

|    |                      |                                     |
|----|----------------------|-------------------------------------|
| in | <i>BannerCfgList</i> | A list of Banner configuration data |
|----|----------------------|-------------------------------------|

**Exceptions**

|                       |                                                                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>• one of the Banner ID's is not valid.</li> <li>• one of elements in the list is not valid, e.g. if one of the elements. defines a Banner name which another Banner already has as name.</li> </ul> |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.2

**8.22.4.7** void DCM::DeviceControl::BannerLibrary\_V2\_Add ( in BannerCfg\_V2\_t *BannerCfg* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a Banner to the Banner library.

**Parameters**

|    |                  |                                   |
|----|------------------|-----------------------------------|
| in | <i>BannerCfg</i> | Configuration data of the Banner. |
|----|------------------|-----------------------------------|

**Exceptions**

|                       |                                                                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>• the Banner is not a valid Banner.</li> <li>• no more entries are available (maximum 256 Banners).</li> <li>• a Banner of the same name already exists in the Banner library.</li> </ul> |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.9

**8.22.4.8** void DCM::DeviceControl::FontLibrary\_Add ( in FontCfg\_t *FontCfg*, in string *FileFormat*, in ByteStream *Font* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a Font to the Font library.

**Parameters**

|    |                   |                                                             |
|----|-------------------|-------------------------------------------------------------|
| in | <i>FontCfg</i>    | Configuration data of the Font.                             |
| in | <i>FileFormat</i> | Indicates how the Font data is encoded. This must be "ttf". |
| in | <i>Font</i>       | The Font data. This must be a TrueTypeFont (ttf) file.      |

**Exceptions**

|                       |                                                                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>the Font is not a valid Font.</li> <li>no more entries are available (maximum 128 Fonts).</li> <li>a Font of the same name already exists in the Font library.</li> </ul> |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.2

**8.22.4.9** void DCM::DeviceControl::FontLibrary\_FontCfgDeleteL ( in FontCfgID\_List\_t *FontCfgID\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove one or more Fonts from the Font library.

**Parameters**

|    |                       |                             |
|----|-----------------------|-----------------------------|
| in | <i>FontCfgID_List</i> | ID's of the Fonts to remove |
|----|-----------------------|-----------------------------|

**Exceptions**

|                       |                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case of: <ul style="list-style-type: none"> <li>one of the Font ID's is invalid.</li> <li>one of the Font configurations is in use.</li> </ul> |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.2

**8.22.4.10** void DCM::DeviceControl::FontLibrary\_FontCfgGetL ( in FontCfgID\_List\_t *FontCfgID\_List*, out FontCfgList\_t *FontCfgList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get information about fonts in the font library.

**Parameters**

|     |                       |                                                                                                       |
|-----|-----------------------|-------------------------------------------------------------------------------------------------------|
| in  | <i>FontCfgID_List</i> | List of font ID's to get information about. If empty, the function returns information for all fonts. |
| out | <i>FontCfgList</i>    | A list of font configuration data                                                                     |

**Version**

Release 8.2

**8.22.4.11** void DCM::DeviceControl::FontLibrary\_FontCfgSetL ( in FontCfgList\_t *FontCfgList* )  
 raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update certain Fonts in the Font library.

**Parameters**

|    |                    |                                   |
|----|--------------------|-----------------------------------|
| in | <i>FontCfgList</i> | A list of Font configuration data |
|----|--------------------|-----------------------------------|

**Exceptions**

|                       |                                                                                                                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>• one of the Font ID's is not valid.</li> <li>• one of elements in the list is not valid, e.g. if one of the elements. defines a Font name which another Font already has as name.</li> </ul> |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.2

**8.22.4.12** void DCM::DeviceControl::LogoLibrary\_Add ( in LogoCfg\_t *LogoCfg*, in string *FileFormat*, in ByteStream *Logo* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a logo to the logo library.

**Parameters**

|    |                   |                                                                                                          |
|----|-------------------|----------------------------------------------------------------------------------------------------------|
| in | <i>LogoCfg</i>    | Configuration data of the logo.                                                                          |
| in | <i>FileFormat</i> | Indicates how the logo data is encoded. This must be "png" for still logos and "mng" for animated logos. |
| in | <i>Logo</i>       | The logo data. This must be a png of mng file. For remote logos this should be empty.                    |

**Exceptions**

|                       |                                                                                                                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>• the logo is not a valid logo.</li> <li>• no more entries are available (maximum 128 logos).</li> <li>• a logo of the same name already exists in the logo library.</li> </ul> |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.1

**8.22.4.13** void DCM::DeviceControl::LogoLibrary\_ExportLogo ( in LogoCfgID\_t *LogoCfgID*, in string *FileFormat*, out ByteStream *Logo* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Export (=download) a logo from the logo library.

#### Parameters

|     |                   |                                                                                                                                           |
|-----|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| in  | <i>LogoCfgID</i>  | ID of the requested logo.                                                                                                                 |
| in  | <i>FileFormat</i> | Indicates how the logo data must be encoded. This must be "png" if a still image is expected. And a "mng" if a animated logo is expected. |
| out | <i>Logo</i>       | The logo data. This is a png or mng file.                                                                                                 |

#### Exceptions

|                       |                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>the logo ID is not valid.</li> </ul> |
|-----------------------|--------------------------------------------------------------------------------------|

#### Version

Release 8.1

**8.22.4.14** void DCM::DeviceControl::LogoLibrary\_GetMaxLogoSize ( out MaximumLogoSize\_t *MaxLogoSize* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the device-wide maximum logo size.

Get the maximum accepted size for logos added in the future. Already uploaded logo's can be larger! All remote logos will always follow these maxima.

#### Parameters

|     |                    |                        |
|-----|--------------------|------------------------|
| out | <i>MaxLogoSize</i> | The maximum logo size. |
|-----|--------------------|------------------------|

#### Version

Release 8.2

**8.22.4.15** void DCM::DeviceControl::LogoLibrary\_LogoCfgDeleteL ( in LogoCfgID\_List\_t *LogoCfgID\_List* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove one or more logos from the logo library.

#### Parameters

|    |                       |                             |
|----|-----------------------|-----------------------------|
| in | <i>LogoCfgID_List</i> | ID's of the logos to remove |
|----|-----------------------|-----------------------------|

**Exceptions**

|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case of: <ul style="list-style-type: none"> <li>• one of the logo ID's is invalid.</li> <li>• one of the logo configurations is in use.</li> </ul> |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.1

**8.22.4.16** void DCM::DeviceControl::LogoLibrary\_LogoCfgFileNrGetL ( in LogoCfgID\_List\_t *LogoCfgID\_List*, out LogoCfgFileNumberList\_t *LogoCfgFileNumbers* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the mapping between LogoCfgID and LogoFileNumber.

**Parameters**

|     |                           |                                                                                                       |
|-----|---------------------------|-------------------------------------------------------------------------------------------------------|
| in  | <i>LogoCfgID_List</i>     | List of logo ID's to get information about. If empty, the function returns information for all logos. |
| out | <i>LogoCfgFileNumbers</i> | The mapping between the logo config numbers and the logo file numbers.                                |

**Exceptions**

|                       |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>• Invalid references are used (LogoID)</li> </ul> |
|-----------------------|---------------------------------------------------------------------------------------------------|

**Version**

Release 8.1

**8.22.4.17** void DCM::DeviceControl::LogoLibrary\_LogoCfgFileNrSetL ( in LogoCfgFileNumberList\_t *LogoCfgFileNumbers* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the mapping between LogoCfgID and LogoFileNumber.

The LogoFileNumber must be part of [1, 16]. A mapping can be removed by setting the LogoFileNumber to 0.

**Parameters**

|    |                           |                                                                        |
|----|---------------------------|------------------------------------------------------------------------|
| in | <i>LogoCfgFileNumbers</i> | The mapping between the logo config numbers and the logo file numbers. |
|----|---------------------------|------------------------------------------------------------------------|

**Exceptions**

|                       |                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>Invalid references are used (LogoID)</li> <li>Multiple LogoCfgIDs would get the same LogoFileName.</li> </ul> |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.1

**8.22.4.18** void DCM::DeviceControl::LogoLibrary\_LogoCfgGetL ( in LogoCfgID\_List\_t *LogoCfgID\_List*, out LogoCfgList\_t *LogoCfgList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get information about logos in the logo library.

**Parameters**

|     |                       |                                                                                                       |
|-----|-----------------------|-------------------------------------------------------------------------------------------------------|
| in  | <i>LogoCfgID_List</i> | List of logo ID's to get information about. If empty, the function returns information for all logos. |
| out | <i>LogoCfgList</i>    | A list of logo configuration data                                                                     |

**Version**

Release 8.1

**8.22.4.19** void DCM::DeviceControl::LogoLibrary\_LogoCfgSetL ( in LogoCfgList\_t *LogoCfgList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update about certain logos in the logo library.

The 'AnimatedLogo' flag can't be updated.

**Parameters**

|    |                    |                                   |
|----|--------------------|-----------------------------------|
| in | <i>LogoCfgList</i> | A list of logo configuration data |
|----|--------------------|-----------------------------------|

**Exceptions**

|                       |                                                                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>one of the logo ID's is not valid.</li> <li>one of elements in the list is not valid, e.g. if one of the elements. defines a logo name which another logo already has as name.</li> </ul> |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.1

**8.22.4.20** void DCM::DeviceControl::LogoLibrary\_SetMaxLogoSize ( in MaximumLogoSize\_t *MaxLogoSize* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set device-wide maximum logo size.

The maximum accepted size for logos added in the future will be set. Already uploaded logo's can be larger! All remote logos will always follow these maxima.

**Parameters**

|    |                    |                        |
|----|--------------------|------------------------|
| in | <i>MaxLogoSize</i> | The maximum logo size. |
|----|--------------------|------------------------|

**Version**

Release 8.2

**8.22.4.21** void DCM::DeviceControl::StartEAS ( in string *SAME*, in string *AlertText*, in unsigned long *BannerTimeout* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Start an EAS message.

This will insert a banner into all services (on logo insertion boards) which have their enEAS\_Control field set to Enabled.

**Parameters**

|    |                      |                                                                                                                                                         |
|----|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>SAME</i>          | The SAME code of the alert                                                                                                                              |
| in | <i>AlertText</i>     | The text to show encoded in ASCII For an empty text (no characters), the banner text will be used as defined in the corresponding banner configuration. |
| in | <i>BannerTimeout</i> | The maximum duration of the banner (in seconds) (0 for no timeout)                                                                                      |

**Version**

Release 8.2

**8.22.4.22** void DCM::DeviceControl::StartEAS\_V2 ( in string *SAME*, in string *AlertText*, in unsigned long *BannerTimeout*, in enBannerTextEncoding\_t *AlertTextEncoding* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Start an EAS message.

This will insert a banner into all services (on logo insertion boards) which have their enEAS\_Control field set to Enabled.

**Parameters**

|    |                           |                                                                                                                                         |
|----|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>SAME</i>               | The SAME code of the alert                                                                                                              |
| in | <i>AlertText</i>          | The text to show. For an empty text (no characters), the banner text will be used as defined in the corresponding banner configuration. |
| in | <i>BannerTimeout</i>      | The maximum duration of the banner (in seconds) (0 for no timeout)                                                                      |
| in | <i>AlertText-Encoding</i> | The encoding of the AlertText                                                                                                           |

**Version**

Release 8.7

**8.22.4.23** void DCM::DeviceControl::StartEAS\_V3 ( in string *SAME*, in string *AlertText*, in unsigned long *BannerTimeout*, in enBannerTextEncoding\_t *AlertTextEncoding*, in unsigned short *TextLoopCount* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Start an EAS message.

This will insert a banner into all services (on logo insertion boards) which have their enEAS\_Control field set to Enabled.

**Parameters**

|    |                           |                                                                                                                                                                                                                                                     |
|----|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>SAME</i>               | The SAME code of the alert                                                                                                                                                                                                                          |
| in | <i>AlertText</i>          | The text to show. For an empty text (no characters), the banner text will be used as defined in the corresponding banner configuration.                                                                                                             |
| in | <i>BannerTimeout</i>      | The maximum duration of the banner (in seconds) (0 for no timeout)                                                                                                                                                                                  |
| in | <i>AlertText-Encoding</i> | The encoding of the AlertText                                                                                                                                                                                                                       |
| in | <i>TextLoopCount</i>      | Number of times an banner should be displayed loop count of 0 means banner is played continously, loop count of 3 means banner is played three times loop count of 0xFFFE means the TextLoopCount of the corresponding banner configuration is used |

**Version**

Release 8.9

**8.22.4.24** void DCM::DeviceControl::StopBanners ( ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Stop all banners on all services This will stop any active banner (and EAS) on any logo insertion board.

**Version**

Release 8.2

**8.22.4.25** void DCM::DeviceControl::TC\_BannerSettingsGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out TC\_BannerSettingsList\_t *BannerSettingsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the banner configuration.

**Parameters**

|     |                            |                                                  |
|-----|----------------------------|--------------------------------------------------|
| in  | <i>BoardNr</i>             | The board number                                 |
| in  | <i>ServiceList</i>         | The list of service to retrieve the settigns for |
| out | <i>Banner-SettingsList</i> | The banner configurations                        |



**Exceptions**

|                       |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>• The board is not a transcoder board</li> <li>• One of the services does not exist</li> </ul> |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.2

**8.22.4.26** void DCM::DeviceControl::TC\_BannerSettingsSetL ( in unsigned short *BoardNr*, in TC\_BannerSettingsList\_t *BannerSettingsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Update the banner configuration.

**Parameters**

|    |                            |                               |
|----|----------------------------|-------------------------------|
| in | <i>BoardNr</i>             | The board number              |
| in | <i>Banner-SettingsList</i> | The new banner configurations |

**Exceptions**

|                       |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>• The board is not a transcoder board</li> <li>• One of the services does not exist</li> </ul> |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.2

**8.22.4.27** void DCM::DeviceControl::TC\_BannerStatusGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out TC\_ServiceBannerStatusList\_t *Banners* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Retrieve the list of banner statuses.

**Parameters**

|     |                    |                                                                 |
|-----|--------------------|-----------------------------------------------------------------|
| in  | <i>BoardNr</i>     | The board number                                                |
| in  | <i>ServiceList</i> | The list of services to query, an empty list means all services |
| out | <i>Banners</i>     | The list of banner statuses                                     |

**Exceptions**

|                       |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>• The board is not a transcoder board</li> <li>• One of the services does not exist</li> </ul> |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.2

**8.22.4.28** void DCM::DeviceControl::TC\_GetBoardMode ( in unsigned short *BoardNr*, out enTC\_BoardMode\_t *enBoardMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the processor board mode.

**Parameters**

|     |                    |                            |
|-----|--------------------|----------------------------|
| in  | <i>BoardNr</i>     | The processor board number |
| out | <i>enBoardMode</i> | Requested board mode       |

**Exceptions**

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not a processor board. |
|-----------------------|----------------------------------------------------------------|

**Version**

Release 8.1

**8.22.4.29** unsigned short DCM::DeviceControl::TC\_GetDSP\_Number ( in unsigned short *SlotNbr*, in IPS\_RefPid\_t *RefPid* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the DSP currently processing a certain PID.

Not supported if the board is in eTC\_BoardMode\_LogoInsertion mode.

**Parameters**

|    |                |                                           |
|----|----------------|-------------------------------------------|
| in | <i>SlotNbr</i> | transcoder board to set in loop back mode |
| in | <i>RefPid</i>  | The PID for which to find the DSP         |

**Exceptions**

|                       |                                        |
|-----------------------|----------------------------------------|
| <i>OpNotSupported</i> | when called for non-transcoder boards. |
| <i>OpNotSucceeded</i> | if the PID is not being transcoded     |

**Version**

Release 7.1

**8.22.4.30** void DCM::DeviceControl::TC\_LogoAddL ( in unsigned short *BoardNr*, in TC\_ServiceLogoCfgID\_List\_t *LogoToAdd* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Add one or more logo configurations to one or more services.

The ServiceLogoID must be set to 0.

**Parameters**

|    |                  |                            |
|----|------------------|----------------------------|
| in | <i>BoardNr</i>   | The processor board number |
| in | <i>LogoToAdd</i> | Logo configurations to add |

**Exceptions**

|                       |                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not a transcoder board.                                                                                         |
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc, LogoCfgID)</li> <li>no more entries are available</li> </ul> |

**Version**

Release 8.1

**8.22.4.31** void DCM::DeviceControl::TC\_LogoCfgSetL ( in unsigned short *BoardNr*, in TC\_LogoCfgList\_t *LogoCfgList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update the logo settings on the logo processing board.

**Note**

: The settings done through this call are not persistent.

**Parameters**

|    |                    |                                 |
|----|--------------------|---------------------------------|
| in | <i>BoardNr</i>     | The processor board number      |
| in | <i>LogoCfgList</i> | The updated logo configurations |

**Exceptions**

|                       |                                                                              |
|-----------------------|------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not a processing board.              |
| <i>OpNotSucceeded</i> | If the service doesn't exist or doesn't have a logo with that ID configured. |

**Version**

Release 8.1

**8.22.4.32** void DCM::DeviceControl::TC\_LogoDeleteL ( in unsigned short *BoardNr*, in TC\_ServiceLogoCfgID\_List\_t *LogosToDelete* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove one or more logo configurations from one or more services.

If the logo is currently displayed it will be removed immediately.

**Parameters**

|    |                      |                                       |
|----|----------------------|---------------------------------------|
| in | <i>BoardNr</i>       | The processor board number            |
| in | <i>LogosToDelete</i> | List of logo configurations to delete |

**Exceptions**

|                       |                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not a transcoder board.                                                  |
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc, LogoCfgID)</li> </ul> |

**Version**

Release 8.1

**8.22.4.33** void DCM::DeviceControl::TC\_LogoDisplayL ( in unsigned short *BoardNr*, in TC\_ServiceLogoDisplayList\_t *LogoDisplayList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update the display status of logos.

These settings are not persistent.

**Parameters**

|    |                         |                                |
|----|-------------------------|--------------------------------|
| in | <i>BoardNr</i>          | The processor board number     |
| in | <i>LogoDisplay-List</i> | The new logo display settings. |

**Exceptions**

|                       |                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not a transcoder board.                                                                                             |
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc, LogoCfgID)</li> <li>Too many logos would be displayed</li> </ul> |

**Version**

Release 8.1

**8.22.4.34** void DCM::DeviceControl::TC\_LogoGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, out TC\_LogoList\_t *LogoList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get logo transcoding settings.

**Parameters**

|     |                    |                                     |
|-----|--------------------|-------------------------------------|
| in  | <i>BoardNr</i>     | The processor board number          |
| in  | <i>ServiceList</i> | The list of services of interest    |
| out | <i>LogoList</i>    | Requested logo transcoding settings |

**Exceptions**

|                       |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not a transcoder board. |
|-----------------------|-----------------------------------------------------------------|

|                       |                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |
|-----------------------|-------------------------------------------------------------------------------------------------------|

**Version**

Release 8.1

**8.22.4.35** void DCM::DeviceControl::TC\_LogoKeyerGetL ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *SvcList*, out TC\_LogoKeyerID\_List\_t *LogoKeyerIDs* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current logo ID to keyer ID mapping.

**Parameters**

|    |                     |                                   |
|----|---------------------|-----------------------------------|
| in | <i>BoardNr</i>      | The processor board number        |
| in | <i>SvcList</i>      | The list of services of interest  |
| in | <i>LogoKeyerIDs</i> | The logo ID to keyer ID mappings. |

**Exceptions**

|                       |                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not a transcoder board.                                       |
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>invalid input references are used (RefSvc)</li> </ul> |

**Version**

Release 8.1

**8.22.4.36** void DCM::DeviceControl::TC\_LogoKeyerUpdateL ( in unsigned short *BoardNr*, in TC\_LogoKeyerID\_List\_t *LogoKeyerIDs* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Update the LogoID <-> Keyer ID mapping .

A keyer ID of 0 means no keyer is assigned. Any other keyer ID ([1-8]) can only be assigned to one logo (per services). An assigned keyer ID can be removed by setting it to 0.

**Parameters**

|    |                     |                                   |
|----|---------------------|-----------------------------------|
| in | <i>BoardNr</i>      | The processor board number        |
| in | <i>LogoKeyerIDs</i> | The logo ID to keyer ID mappings. |

**Exceptions**

|                       |                                                                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not a transcoder board.                                                                                                                                    |
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>• Invalid references are used (RefSvc, LogoID)</li> <li>• One keyer ID is assigned to multiple logos</li> <li>• The keyer ID is invalid</li> </ul> |

**Version**

Release 8.1

**8.22.4.37** void DCM::DeviceControl::TC\_SetBoardMode ( in unsigned short *BoardNr*, in enTC\_BoardMode\_t *enBoardMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the processor board mode.

**Parameters**

|    |                    |                            |
|----|--------------------|----------------------------|
| in | <i>BoardNr</i>     | The processor board number |
| in | <i>enBoardMode</i> | Board mode to set          |

**Exceptions**

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not a processor board.                                                                   |
| <i>OpNotSucceeded</i> | if the new board mode is different from the current board mode and there are currently transcodes or logo insertions configured. |

**Version**

Release 8.1

**8.22.4.38** void DCM::DeviceControl::TC\_StartBanner ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, in TC\_Banner\_t *Banner* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Start a banner.

**Parameters**

|    |                    |                                                                                  |
|----|--------------------|----------------------------------------------------------------------------------|
| in | <i>BoardNr</i>     | The board number                                                                 |
| in | <i>ServiceList</i> | The list of services to insert the banner into, an empty list means all services |
| in | <i>Banner</i>      | The banner to insert                                                             |

**Exceptions**

|                       |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>• The board is not a transcoder board</li> <li>• One of the services does not exist</li> </ul> |
| <i>LicenseError</i>   | in case: <ul style="list-style-type: none"> <li>• The service is not configured to accept banners</li> </ul>                                   |

**Version**

Release 8.2

**8.22.4.39** void DCM::DeviceControl::TC\_StartBanner\_V2 ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList*, in TC\_Banner\_V2\_t *Banner* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Start a banner.

**Parameters**

|    |                    |                                                                                  |
|----|--------------------|----------------------------------------------------------------------------------|
| in | <i>BoardNr</i>     | The board number                                                                 |
| in | <i>ServiceList</i> | The list of services to insert the banner into, an empty list means all services |
| in | <i>Banner</i>      | The banner to insert                                                             |

**Exceptions**

|                       |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"> <li>• The board is not a transcoder board</li> <li>• One of the services does not exist</li> </ul> |
| <i>LicenseError</i>   | in case: <ul style="list-style-type: none"> <li>• The service is not configured to accept banners</li> </ul>                                   |

**Version**

Release 8.7

**8.22.4.40** void DCM::DeviceControl::TC\_StopBanner ( in unsigned short *BoardNr*, in IPS\_Service\_List\_t *ServiceList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Stop any banner in the service This will stop any active banner (and EAS) in all of the listed services.

**Parameters**

|    |                    |                                                                                   |
|----|--------------------|-----------------------------------------------------------------------------------|
| in | <i>BoardNr</i>     | The board number                                                                  |
| in | <i>ServiceList</i> | The services where the banners must be stopped. An empty list means all services. |

**Exceptions**

|                       |                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case: <ul style="list-style-type: none"><li>• The board is not a transcoder board</li><li>• One of the services does not exist</li></ul> |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 8.2



## 8.23 Transrater Resource Counting

This contains specific types, enums and methods for controlling the Transrater Resource Counting part of the device.

### Classes

- struct [DCM::DeviceControl::TR\\_ResourceCountingSettings\\_t](#)  
*Settings needed to calculate different loads on TR board which can be modified by user.*
- struct [DCM::DeviceControl::TR\\_ResourceCountingLoads\\_t](#)  
*Calculated loads on TR board available for user.*

### Enumerations

- enum [DCM::DeviceControl::enTR\\_VideoFormat](#) { [DCM::DeviceControl::eTR\\_NTSC](#), [DCM::DeviceControl::eTR\\_PAL](#), [DCM::DeviceControl::eTR\\_VideoFormat\\_Reserved1](#), [DCM::DeviceControl::eTR\\_VideoFormat\\_Reserved2](#), [DCM::DeviceControl::eTR\\_VideoFormat\\_Reserved3](#), [DCM::DeviceControl::eTR\\_VideoFormat\\_Reserved4](#), [DCM::DeviceControl::eTR\\_VideoFormat\\_Reserved5](#), [DCM::DeviceControl::eTR\\_VideoFormat\\_Reserved6](#) }
- Video format needed to calculate different loads on TR board.*

### Functions

- void [DCM::DeviceControl::TR\\_SetGuaranteedSplicesEnabled](#) (in unsigned short BoardNr, in boolean bEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Enable/disable denying of splice\_request based on available resources.*
- void [DCM::DeviceControl::TR\\_GetGuaranteedSplicesEnabled](#) (in unsigned short BoardNr, out boolean bEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Query whether denying of splice\_request based on available resources is enabled/disabled.*
- void [DCM::DeviceControl::TR\\_ResetMaximumReachedLoad](#) (in unsigned short BoardNr) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Resets the maximum reached load on a TR board.*
- void [DCM::DeviceControl::TR\\_SetResourceCountingSettings](#) (in unsigned short BoardNr, in [TR\\_ResourceCountingSettings\\_t](#) TR\_ResourceCountingSettings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set settings needed to calculate different loads on TR board.*
- void [DCM::DeviceControl::TR\\_GetResourceCountingSettings](#) (in unsigned short BoardNr, out [TR\\_ResourceCountingSettings\\_t](#) TR\_ResourceCountingSettings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get settings needed to calculate different loads on TR board.*
- void [DCM::DeviceControl::TR\\_GetResourceCountingLoads](#) (in unsigned short BoardNr, out [TR\\_ResourceCountingLoads\\_t](#) TR\_ResourceCountingLoads) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get calculated loads on TR board.*
- void [DCM::DeviceControl::TR\\_SetStopStreamingReducesLoad](#) (in unsigned short BoardNr, in boolean bStopStreamingReducesLoad) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set flag to take/don't take load into account depending on streaming state of service.*

- void **DCM::DeviceControl::TR\_GetStopStreamingReducesLoad** (in unsigned short *BoardNr*, out boolean *bStopStreamingReducesLoad*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get flag to take/don't take load into account depending on streaming state of service.*

### 8.23.1 Detailed Description

This contains specific types, enums and methods for controlling the Transrater Resource Counting part of the device.

### 8.23.2 Enumeration Type Documentation

#### 8.23.2.1 enum DCM::DeviceControl::enTR\_VideoFormat

Video format needed to calculate different loads on TR board.

Enumerator:

*eTR\_NTSC*

*eTR\_PAL*

*eTR\_VideoFormat\_Reserved1*

*eTR\_VideoFormat\_Reserved2*

*eTR\_VideoFormat\_Reserved3*

*eTR\_VideoFormat\_Reserved4*

*eTR\_VideoFormat\_Reserved5*

*eTR\_VideoFormat\_Reserved6*

Definition at line 14713 of file DCM.idl.

### 8.23.3 Function Documentation

- 8.23.3.1 void **DCM::DeviceControl::TR\_GetGuaranteedSplicesEnabled** ( in unsigned short *BoardNr*, out boolean *bEnabled* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Query whether denying of splice\_request based on available resources is enabled/disabled.

Parameters

|     |                 |  |
|-----|-----------------|--|
| in  | <i>BoardNr</i>  |  |
| out | <i>bEnabled</i> |  |

Exceptions

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | In case of invalid BoardNr or when no transrater board is available |
|-----------------------|---------------------------------------------------------------------|

Version

Release 8.2

**8.23.3.2** void DCM::DeviceControl::TR\_GetResourceCountingLoads ( in unsigned short *BoardNr*, out TR\_ResourceCountingLoads\_t *TR\_ResourceCountingLoads* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get calculated loads on TR board.

#### Parameters

|     |                                  |  |
|-----|----------------------------------|--|
| in  | <i>BoardNr</i>                   |  |
| out | <i>TR_Resource-CountingLoads</i> |  |

#### Exceptions

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | In case of invalid BoardNr or when no transrater board is available |
|-----------------------|---------------------------------------------------------------------|

#### Version

Release 8.2

**8.23.3.3** void DCM::DeviceControl::TR\_GetResourceCountingSettings ( in unsigned short *BoardNr*, out TR\_ResourceCountingSettings\_t *TR\_ResourceCountingSettings* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get settings needed to calculate different loads on TR board.

#### Parameters

|     |                                      |  |
|-----|--------------------------------------|--|
| in  | <i>BoardNr</i>                       |  |
| out | <i>TR_Resource-Counting-Settings</i> |  |

#### Exceptions

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | In case of invalid BoardNr or when no transrater board is available |
|-----------------------|---------------------------------------------------------------------|

#### Version

Release 8.2

**8.23.3.4** void DCM::DeviceControl::TR\_GetStopStreamingReducesLoad ( in unsigned short *BoardNr*, out boolean *bStopStreamingReducesLoad* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get flag to take/don't take load into account depending on streaming state of service.

#### Parameters

|     |                                    |  |
|-----|------------------------------------|--|
| in  | <i>BoardNr</i>                     |  |
| out | <i>bStop-Streaming-ReducesLoad</i> |  |

**Exceptions**

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | In case of invalid BoardNr or when no transrater board is available |
|-----------------------|---------------------------------------------------------------------|

**Version**

Release 8.5

**8.23.3.5** void DCM::DeviceControl::TR\_ResetMaximumReachedLoad ( in unsigned short *BoardNr* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Resets the maximum reached load on a TR board.

**Parameters**

|    |                |  |
|----|----------------|--|
| in | <i>BoardNr</i> |  |
|----|----------------|--|

**Exceptions**

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | In case of invalid BoardNr or when no transrater board is available |
|-----------------------|---------------------------------------------------------------------|

**Version**

Release 8.2

**8.23.3.6** void DCM::DeviceControl::TR\_SetGuaranteedSplicesEnabled ( in unsigned short *BoardNr*, in boolean *bEnabled* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Enable/disable denying of splice\_request based on available resources.

For splicing sufficient subgroup resources must be available in order to guarantee a successful splice. - When enabled, resource checking is done and if needed, the splice\_request is denied with a splice\_response containing RC 114 = Splice Queue Full.

**Parameters**

|    |                 |  |
|----|-----------------|--|
| in | <i>BoardNr</i>  |  |
| in | <i>bEnabled</i> |  |

**Exceptions**

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | In case of invalid BoardNr or when no transrater board is available |
|-----------------------|---------------------------------------------------------------------|

**Version**

Release 8.2

**8.23.3.7** void DCM::DeviceControl::TR\_SetResourceCountingSettings ( in unsigned short *BoardNr*, in TR\_ResourceCountingSettings\_t *TR\_ResourceCountingSettings* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set settings needed to calculate different loads on TR board.

**Parameters**

|    |                                      |  |
|----|--------------------------------------|--|
| in | <i>BoardNr</i>                       |  |
| in | <i>TR_Resource-Counting-Settings</i> |  |

**Exceptions**

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | In case of invalid BoardNr or when no transrater board is available |
|-----------------------|---------------------------------------------------------------------|

**Version**

Release 8.2

**8.23.3.8** void DCM::DeviceControl::TR\_SetStopStreamingReducesLoad ( in unsigned short *BoardNr*, in boolean *bStopStreamingReducesLoad* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set flag to take/don't take load into account depending on streaming state of service.

When set to true, the load of a transrated/spliceable service which is not streaming, is not taken into account.

**Parameters**

|    |                                    |  |
|----|------------------------------------|--|
| in | <i>BoardNr</i>                     |  |
| in | <i>bStop-Streaming-ReducesLoad</i> |  |

**Exceptions**

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | In case of invalid BoardNr or when no transrater board is available |
|-----------------------|---------------------------------------------------------------------|

**Version**

Release 8.5

## 8.24 Transrater

This contains specific types, enums and methods for controlling the transrater part of the device.

### Classes

- struct [DCM::DeviceControl::TR\\_GroupID\\_t](#)  
*Used for referencing transrater staging groups.*
- struct [DCM::DeviceControl::TR\\_DelayMode\\_t](#)
- struct [DCM::DeviceControl::TR\\_DelayMode\\_V2\\_t](#)
- struct [DCM::DeviceControl::TR\\_BitrateLimits\\_t](#)  
*Min - max bitrate boundaries used for service.*
- struct [DCM::DeviceControl::TR\\_GroupSettings\\_t](#)  
*Used to create and change transrater staging groups.*
- struct [DCM::DeviceControl::TR\\_TSSettings\\_t](#)  
*Represents an output transport stream in a transrater staging context.*
- struct [DCM::DeviceControl::TR\\_TSAdd\\_t](#)  
*Used to couple output transport stream(s) to a transrater group.*
- struct [DCM::DeviceControl::TR\\_Service\\_t](#)  
*Identifies an output service in a transrater staging context.*
- struct [DCM::DeviceControl::TR\\_ServiceSettings\\_t](#)  
*Transrater specific service settings.*
- struct [DCM::DeviceControl::TR\\_GroupServiceSettings\\_t](#)
- struct [DCM::DeviceControl::TR\\_ServiceSettings\\_V2\\_t](#)  
*Transrater specific service settings V2.*
- struct [DCM::DeviceControl::TR\\_GroupServiceSettings\\_V2\\_t](#)

### Typedefs

- typedef sequence< [TR\\_GroupID\\_t](#) > [DCM::DeviceControl::TR\\_GroupID\\_List\\_t](#)  
*A sequence of [TR\\_GroupID\\_t](#).*
- typedef sequence < [TR\\_GroupSettings\\_t](#) > [DCM::DeviceControl::TR\\_GroupSettings\\_List\\_t](#)  
*A sequence of [TR\\_GroupSettings\\_t](#).*
- typedef sequence< [TR\\_TSSettings\\_t](#) > [DCM::DeviceControl::TR\\_TSSettings\\_List\\_t](#)  
*A sequence of [TR\\_TSSettings\\_t](#).*
- typedef sequence< [TR\\_TSAdd\\_t](#) > [DCM::DeviceControl::TR\\_TSAdd\\_List\\_t](#)  
*A sequence of [TR\\_TSAdd\\_t](#).*
- typedef sequence < [TR\\_ServiceSettings\\_t](#) > [DCM::DeviceControl::TR\\_ServiceSettings\\_List\\_t](#)  
*A sequence of [TR\\_ServiceSettings\\_t](#).*
- typedef sequence < [TR\\_GroupServiceSettings\\_t](#) > [DCM::DeviceControl::TR\\_GroupServiceSettings\\_List\\_t](#)  
*A sequence of [TR\\_GroupServiceSettings\\_t](#).*
- typedef sequence < [TR\\_ServiceSettings\\_V2\\_t](#) > [DCM::DeviceControl::TR\\_ServiceSettings\\_V2\\_List\\_t](#)  
*A sequence of [TR\\_ServiceSettings\\_V2\\_t](#).*
- typedef sequence < [TR\\_GroupServiceSettings\\_V2\\_t](#) > [DCM::DeviceControl::TR\\_GroupServiceSettings\\_V2\\_List\\_t](#)  
*A sequence of [TR\\_GroupServiceSettings\\_V2\\_t](#).*

## Enumerations

- enum `DCM::DeviceControl::eTR_ServiceMode` { `DCM::DeviceControl::SrvM_PassThrough`, `DCM::DeviceControl::SrvM_StatMux`, `DCM::DeviceControl::SrvM_RateLimit` }
- enum `DCM::DeviceControl::eTR_BoardDelayMode` { `DCM::DeviceControl::DM_NormalDelay`, `DCM::DeviceControl::DM_LowDelay` }
- enum `DCM::DeviceControl::eTR_GroupType` { `DCM::DeviceControl::MultiTS`, `DCM::DeviceControl::SingleTS_TS`, `DCM::DeviceControl::SingleTS_Service` }
- enum `DCM::DeviceControl::enTR_Function_t` { `DCM::DeviceControl::eTR_Function_Normal`, `DCM::DeviceControl::eTR_Function_AVC_DPI`, `DCM::DeviceControl::eTR_Function_Reserved1`, `DCM::DeviceControl::eTR_Function_Reserved2`, `DCM::DeviceControl::eTR_Function_Reserved3` }
- enum `DCM::DeviceControl::eTR_Algorithm` { `DCM::DeviceControl::eTR_Performance`, `DCM::DeviceControl::eTR_Quality`, `DCM::DeviceControl::eTR_ExtendedGop` }
- enum `DCM::DeviceControl::eTR_Delay` { `DCM::DeviceControl::eTR_NormalDelay`, `DCM::DeviceControl::eTR_HighDelay` }
- enum `DCM::DeviceControl::eTR_CoarseDelay` { `DCM::DeviceControl::eTR_NormalCoarseDelay`, `DCM::DeviceControl::eTR_HighCoarseDelay`, `DCM::DeviceControl::eTR_PredefinedDelay`, `DCM::DeviceControl::eTR_CustomDelay`, `DCM::DeviceControl::eTR_LowDelay` }
- enum `DCM::DeviceControl::eTR_CoarseDelay_V2` { `DCM::DeviceControl::eTR_NormalCoarseDelay_V2`, `DCM::DeviceControl::eTR_HighCoarseDelay_V2`, `DCM::DeviceControl::eTR_PredefinedDelay_V2`, `DCM::DeviceControl::eTR_CustomDelay_V2`, `DCM::DeviceControl::eTR_LowDelay_V2`, `DCM::DeviceControl::eTR_TS_Delay_V2` }
- enum `DCM::DeviceControl::eTR_FrameRateDelay` { `DCM::DeviceControl::eTR_25Hz`, `DCM::DeviceControl::eTR_30Hz` }
- enum `DCM::DeviceControl::eTR_BoardTypeDelay` { `DCM::DeviceControl::eTR_ASI`, `DCM::DeviceControl::eTR_GbE` }
- enum `DCM::DeviceControl::eTR_FineDelay` { `DCM::DeviceControl::eTR_LowFineDelay`, `DCM::DeviceControl::eTR_NormalFineDelay`, `DCM::DeviceControl::eTR_HighFineDelay` }
- enum `DCM::DeviceControl::enTR_SpliceWindowAccuracy` { `DCM::DeviceControl::eTR_SpliceWindowAccuracy_BestEffort`, `DCM::DeviceControl::eTR_SpliceWindowAccuracy_Scte30`, `DCM::DeviceControl::eTR_SpliceWindowAccuracy_Reserved1`, `DCM::DeviceControl::eTR_SpliceWindowAccuracy_Reserved2`, `DCM::DeviceControl::eTR_SpliceWindowAccuracy_Reserved3`, `DCM::DeviceControl::eTR_SpliceWindowAccuracy_Reserved4`, `DCM::DeviceControl::eTR_SpliceWindowAccuracy_Reserved5` }
- enum `DCM::DeviceControl::eTRB_CC_UpdateMode` { `DCM::DeviceControl::eTRB_CC_UpdateMode_Off`, `DCM::DeviceControl::eTRB_CC_UpdateMode_Scte20_21`, `DCM::DeviceControl::eTRB_CC_UpdateMode_Reserved1`, `DCM::DeviceControl::eTRB_CC_UpdateMode_Reserved2`, `DCM::DeviceControl::eTRB_CC_UpdateMode_Reserved3`, `DCM::DeviceControl::eTRB_CC_UpdateMode_Reserved4`, `DCM::DeviceControl::eTRB_CC_UpdateMode_Reserved5`, `DCM::DeviceControl::eTRB_CC_UpdateMode_Reserved6`, `DCM::DeviceControl::eTRB_CC_UpdateMode_Reserved7`, `DCM::DeviceControl::eTRB_CC_UpdateMode_Reserved8` }

*Defines the closed caption update mode for SCTE20-SCTE21 conversion.*

## Functions

- void `DCM::DeviceControl::TR_SetBoardFunction` (in `IPS_Ref_t RefPhys`, in `enTR_Function_t enTR_Function`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the transrater board function.*
- void `DCM::DeviceControl::TR_GetBoardFunction` (in `IPS_Ref_t RefPhys`, out `enTR_Function_t enTR_Function`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the transrater board function.*

- void [DCM::DeviceControl::TR\\_SetBoardAlgorithm](#) (in IPS\_Ref\_t RefPhys, in eTR\_Algorithm TR\_Algorithm) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the transrating algorithm.*
- void [DCM::DeviceControl::TR\\_GetBoardAlgorithm](#) (in IPS\_Ref\_t RefPhys, out eTR\_Algorithm TR\_Algorithm) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the transrating algorithm.*
- void [DCM::DeviceControl::TR\\_SetBoardDelay](#) (in IPS\_Ref\_t RefPhys, in eTR\_Delay TR\_Delay) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the transrating board delay.*
- void [DCM::DeviceControl::TR\\_GetBoardDelay](#) (in IPS\_Ref\_t RefPhys, out eTR\_Delay TR\_Delay) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the transrating board delay.*
- void [DCM::DeviceControl::TR\\_SetBoardDelayExtend](#) (in IPS\_Ref\_t RefPhys, in TR\_DelayMode\_t TR\_Delay) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the transrating board delay.*
- void [DCM::DeviceControl::TR\\_SetBoardDelayExtend\\_V2](#) (in IPS\_Ref\_t RefPhys, in TR\_DelayMode\_V2\_t TR\_Delay) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Set the transrating board delay.*
- void [DCM::DeviceControl::TR\\_GetBoardDelayExtend](#) (in IPS\_Ref\_t RefPhys, out TR\_DelayMode\_t TR\_Delay) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the transrating board delay.*
- void [DCM::DeviceControl::TR\\_GetBoardDelayExtend\\_V2](#) (in IPS\_Ref\_t RefPhys, out TR\_DelayMode\_V2\_t TR\_Delay) raises (TimeOut, OpNotAllowed, OpNotSupported)  
*Get the transrating board delay.*
- TR\_GroupID\_List\_t [DCM::DeviceControl::TR\\_GroupAddL](#) (in IPS\_Ref\_t RefPhys, in TR\_GroupSettings\_List\_t GroupList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Request to add a list of new transrater groups.*
- TR\_GroupSettings\_List\_t [DCM::DeviceControl::TR\\_GroupGetL](#) (in IPS\_Ref\_t RefPhys, in TR\_GroupID\_List\_t GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the list of transrater group IDs.*
- TR\_GroupID\_List\_t [DCM::DeviceControl::TR\\_GroupChangeL](#) (in IPS\_Ref\_t RefPhys, in TR\_GroupSettings\_List\_t GroupList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Change the settings of (multiple) transrater group(s).*
- TR\_GroupID\_List\_t [DCM::DeviceControl::TR\\_GroupDeleteL](#) (in IPS\_Ref\_t RefPhys, in TR\_GroupID\_List\_t GroupList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete transrater group(s).*
- TR\_TSAdd\_List\_t [DCM::DeviceControl::TR\\_TS\\_AddL](#) (in IPS\_Ref\_t RefPhys, in TR\_TSAdd\_List\_t GroupTSList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add complete mux output transport stream(s) to transrater group(s).*
- TR\_TSAdd\_List\_t [DCM::DeviceControl::TR\\_TS\\_GetL](#) (in IPS\_Ref\_t RefPhys, in TR\_GroupID\_List\_t GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets a list of TSs that are completely part of the transrater group(s).*
- TR\_TSAdd\_List\_t [DCM::DeviceControl::TR\\_TS\\_DeleteL](#) (in IPS\_Ref\_t RefPhys, in TR\_TSAdd\_List\_t GroupTSList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete TS(s) from transrater group(s).*
- TR\_GroupServiceSettings\_List\_t [DCM::DeviceControl::TR\\_ServiceAddL](#) (in IPS\_Ref\_t RefPhys, in TR\_GroupServiceSettings\_List\_t GroupServiceSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)



*Add a sequence of service(s) to transrater group(s).*

- TR\_GroupServiceSettings\_List\_t [DCM::DeviceControl::TR\\_ServiceGetL](#) (in IPS\_Ref\_t RefPhys, in TR\_GroupID\_List\_t GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets a sequence of service(s) that are added to transrater group(s).*

- TR\_GroupServiceSettings\_List\_t [DCM::DeviceControl::TR\\_ServiceChangeL](#) (in IPS\_Ref\_t RefPhys, in TR\_GroupServiceSettings\_List\_t GroupServiceSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Change a sequence of service setting(s) that were previously added to transrater group(s).*

- TR\_GroupServiceSettings\_List\_t [DCM::DeviceControl::TR\\_ServiceDeleteL](#) (in IPS\_Ref\_t RefPhys, in TR\_GroupServiceSettings\_List\_t GroupServiceSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete a sequence of service setting(s) that were previously added to transrater group(s).*

- TR\_BitRateMeasurementList\_t [DCM::DeviceControl::MM\\_GetTR\\_BitRate](#) (in IPS\_Ref\_t PhysRef, in TR\_GroupID\_List\_t GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the bitrate information of transrater groups.*

- void [DCM::DeviceControl::TR\\_GetBoardPcrContinuity](#) (in IPS\_Ref\_t RefPhys, out boolean PcrContinuity) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the PCR continuity setting.*

- void [DCM::DeviceControl::TR\\_SetBoardPcrContinuity](#) (in IPS\_Ref\_t RefPhys, in boolean PcrContinuity) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the PCR continuity setting.*

- void [DCM::DeviceControl::TR\\_GetSpliceWindowAccuracy](#) (in IPS\_Ref\_t RefPhys, out enTR\_SpliceWindowAccuracy Accuracy) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the splice window accuracy setting.*

- void [DCM::DeviceControl::TR\\_SetSpliceWindowAccuracy](#) (in IPS\_Ref\_t RefPhys, in enTR\_SpliceWindowAccuracy Accuracy) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the splice window accuracy setting.*

- TR\_GroupServiceSettings\_V2\_List\_t [DCM::DeviceControl::TR\\_ServiceAddL\\_V2](#) (in IPS\_Ref\_t - RefPhys, in TR\_GroupServiceSettings\_V2\_List\_t GroupServiceSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Add a sequence of service(s) to transrater group(s).*

- TR\_GroupServiceSettings\_V2\_List\_t [DCM::DeviceControl::TR\\_ServiceGetL\\_V2](#) (in IPS\_Ref\_t - RefPhys, in TR\_GroupID\_List\_t GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets a sequence of service(s) that are added to transrater group(s).*

- TR\_GroupServiceSettings\_V2\_List\_t [DCM::DeviceControl::TR\\_ServiceChangeL\\_V2](#) (in IPS\_Ref\_t RefPhys, in TR\_GroupServiceSettings\_V2\_List\_t GroupServiceSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Change a sequence of service setting(s) that were previously added to transrater group(s).*

- TR\_GroupServiceSettings\_V2\_List\_t [DCM::DeviceControl::TR\\_ServiceDeleteL\\_V2](#) (in IPS\_Ref\_t RefPhys, in TR\_GroupServiceSettings\_V2\_List\_t GroupServiceSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete a sequence of service setting(s) that were previously added to transrater group(s).*

- void [DCM::DeviceControl::TR\\_RestartBoard](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded)

*The transrater board will be restarted.*

### 8.24.1 Detailed Description

This contains specific types, enums and methods for controlling the transrater part of the device.

### 8.24.2 Typedef Documentation

#### 8.24.2.1 typedef sequence<TR\_GroupID\_t> DCM::DeviceControl::TR\_GroupID\_List\_t

A sequence of [TR\\_GroupID\\_t](#).

Definition at line 14863 of file DCM.idl.

#### 8.24.2.2 typedef sequence<TR\_GroupServiceSettings\_t> DCM::DeviceControl::TR\_GroupServiceSettings\_List\_t

A sequence of [TR\\_GroupServiceSettings\\_t](#).

Definition at line 15029 of file DCM.idl.

#### 8.24.2.3 typedef sequence<TR\_GroupServiceSettings\_V2\_t> DCM::DeviceControl::TR\_GroupServiceSettings\_V2\_List\_t

A sequence of [TR\\_GroupServiceSettings\\_V2\\_t](#).

Definition at line 15477 of file DCM.idl.

#### 8.24.2.4 typedef sequence<TR\_GroupSettings\_t> DCM::DeviceControl::TR\_GroupSettings\_List\_t

A sequence of [TR\\_GroupSettings\\_t](#).

Definition at line 14985 of file DCM.idl.

#### 8.24.2.5 typedef sequence<TR\_ServiceSettings\_t> DCM::DeviceControl::TR\_ServiceSettings\_List\_t

A sequence of [TR\\_ServiceSettings\\_t](#).

Definition at line 15020 of file DCM.idl.

#### 8.24.2.6 typedef sequence<TR\_ServiceSettings\_V2\_t> DCM::DeviceControl::TR\_ServiceSettings\_V2\_List\_t

A sequence of [TR\\_ServiceSettings\\_V2\\_t](#).

Definition at line 15468 of file DCM.idl.

#### 8.24.2.7 typedef sequence<TR\_TSAdd\_t> DCM::DeviceControl::TR\_TSAdd\_List\_t

A sequence of [TR\\_TSAdd\\_t](#).

Definition at line 15001 of file DCM.idl.

#### 8.24.2.8 typedef sequence<TR\_TSSettings\_t> DCM::DeviceControl::TR\_TSSettings\_List\_t

A sequence of [TR\\_TSSettings\\_t](#).

Definition at line 14993 of file DCM.idl.

### 8.24.3 Enumeration Type Documentation

**8.24.3.1 enum DCM::DeviceControl::enTR\_Function\_t**

Enumerator:

- eTR\_Function\_Normal* Support MPEG-2 TR and DPI, Pid Sync, Slate insertion, ...
- eTR\_Function\_AVC\_DPI* Support AVC DPI.
- eTR\_Function\_Reserved1* not supported yet
- eTR\_Function\_Reserved2* not supported yet
- eTR\_Function\_Reserved3* not supported yet

Definition at line 14885 of file DCM.idl.

**8.24.3.2 enum DCM::DeviceControl::enTR\_SpliceWindowAccuracy**

Enumerator:

- eTR\_SpliceWindowAccuracy\_BestEffort*
- eTR\_SpliceWindowAccuracy\_Scte30*
- eTR\_SpliceWindowAccuracy\_Reserved1*
- eTR\_SpliceWindowAccuracy\_Reserved2*
- eTR\_SpliceWindowAccuracy\_Reserved3*
- eTR\_SpliceWindowAccuracy\_Reserved4*
- eTR\_SpliceWindowAccuracy\_Reserved5*

Definition at line 15397 of file DCM.idl.

**8.24.3.3 enum DCM::DeviceControl::eTR\_Algorithm**

Enumerator:

- eTR\_Performance* Use a faster algorithm but with lesser quality.
- eTR\_Quality* Use a slower algorithm but with better quality (less streams)
- eTR\_ExtendedGop* Specific quality algorithm for removing breathing effects in streams with long GOPs.

Definition at line 14894 of file DCM.idl.

**8.24.3.4 enum DCM::DeviceControl::eTR\_BoardDelayMode**

Enumerator:

- DM\_NormalDelay* Normal delay.
- DM\_LowDelay* Low delay (for future use).

Definition at line 14872 of file DCM.idl.

**8.24.3.5 enum DCM::DeviceControl::eTR\_BoardTypeDelay**

Enumerator:

- eTR\_ASI* Delay for an input stream on an ASI board.
- eTR\_GbE* Delay for an input stream on an GbE board.

Definition at line 14938 of file DCM.idl.

## 8.24.3.6 enum DCM::DeviceControl::eTR\_CoarseDelay

Enumerator:

- eTR\_NormalCoarseDelay* Normal delay of 1.4 seconds.
- eTR\_HighCoarseDelay* Higher delay of 1.8 seconds, results in more accurate splices.
- eTR\_PredefinedDelay* Predefined delay based on the frame rate, input board and finer delay setting of the streams, needed for statmux application (sync delay of MPEG2 & AVC encoders)
- eTR\_CustomDelay* Customized delay, the user can define the total delay of the transrater board together with a specific delay of the output buffer (without preanalysis)
- eTR\_LowDelay* Low delay configuration of the transrater board application (total delay of 440ms of which 140ms are used for preanalysis)

Definition at line 14910 of file DCM.idl.

## 8.24.3.7 enum DCM::DeviceControl::eTR\_CoarseDelay\_V2

Enumerator:

- eTR\_NormalCoarseDelay\_V2* Normal delay of 1.4 seconds.
- eTR\_HighCoarseDelay\_V2* Higher delay of 1.8 seconds, results in more accurate splices.
- eTR\_PredefinedDelay\_V2* Predefined delay based on the frame rate, input board and finer delay setting of the streams, needed for statmux application (sync delay of MPEG2 & AVC encoders)
- eTR\_CustomDelay\_V2* Customized delay, the user can define the total delay of the transrater board together with a specific delay of the output buffer (without preanalysis)
- eTR\_LowDelay\_V2* Low delay configuration of the transrater board application (total delay of 440ms of which 140ms are used for preanalysis).
- eTR\_TS\_Delay\_V2* TS delay mode in which the user can specify a custom delay but the co-processor cannot be used for anything else than pure delay.

Definition at line 14918 of file DCM.idl.

## 8.24.3.8 enum DCM::DeviceControl::eTR\_Delay

**Deprecated** This enum should not be used anymore since R5.01.

The enum is replaced by the structure [TR\\_DelayMode\\_t](#).

Enumerator:

- eTR\_NormalDelay* Normal delay of 1.4 seconds.
- eTR\_HighDelay* Higher delay of 1.8 seconds, results in more accurate splices.

Definition at line 14905 of file DCM.idl.

## 8.24.3.9 enum DCM::DeviceControl::eTR\_FineDelay

Enumerator:

- eTR\_LowFineDelay* Finer predefined delay setting: low delay.
- eTR\_NormalFineDelay* Finer predefined delay setting: normal delay.
- eTR\_HighFineDelay* Finer predefined delay setting: high delay.

Definition at line 14943 of file DCM.idl.

**8.24.3.10 enum DCM::DeviceControl::eTR\_FrameRateDelay****Enumerator:***eTR\_25Hz* Delay for a frame rate of 25 Hz.*eTR\_30Hz* Delay for a frame rate of 30 Hz.

Definition at line 14933 of file DCM.idl.

**8.24.3.11 enum DCM::DeviceControl::eTR\_GroupType****Enumerator:***MultiTS* A group that can contain multiple single program transport streams.*SingleTS\_TS* A group that can contain only one transport stream (no limit on the number of programs).*SingleTS\_Service* A group that can contain parts (programs) from multiple transport streams.

Definition at line 14878 of file DCM.idl.

**8.24.3.12 enum DCM::DeviceControl::eTR\_ServiceMode****Enumerator:***SrvM\_PassThrough* The service is only delayed, not transrated.*SrvM\_StatMux* The service is part of a statmux group and transrated according to the maximum rate of that group also, not only it's own min max bitrate.*SrvM\_RateLimit* The service is transrated only to it's own max bitrate (in fact minimum equals maximum bitrate in case of rate limit).

Definition at line 14865 of file DCM.idl.

**8.24.3.13 enum DCM::DeviceControl::eTRB\_CC\_UpdateMode**

Defines the closed caption update mode for SCTE20-SCTE21 conversion.

**Version**

Release 8.2

**Enumerator:***eTRB\_CC\_UpdateMode\_Off* (default) No update == behaviour pre-Release 8.2*eTRB\_CC\_UpdateMode\_Scte20\_21* Output always contains SCTE20 \*and\* SCTE21 user data (in that order).*eTRB\_CC\_UpdateMode\_Reserved1* reserved for future use.*eTRB\_CC\_UpdateMode\_Reserved2* reserved for future use.*eTRB\_CC\_UpdateMode\_Reserved3* reserved for future use.*eTRB\_CC\_UpdateMode\_Reserved4* reserved for future use.*eTRB\_CC\_UpdateMode\_Reserved5* reserved for future use.*eTRB\_CC\_UpdateMode\_Reserved6* reserved for future use.*eTRB\_CC\_UpdateMode\_Reserved7* reserved for future use.*eTRB\_CC\_UpdateMode\_Reserved8* reserved for future use.

Definition at line 15438 of file DCM.idl.

## 8.24.4 Function Documentation

**8.24.4.1** `TR_BitRateMeasurementList_t DCM::DeviceControl::MM_GetTR_BitRate ( in IPS_Ref_t PhysRef, in TR_GroupID_List_t GroupIDList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the bitrate information of transrater groups.

## Parameters

|    |                    |                                                   |
|----|--------------------|---------------------------------------------------|
| in | <i>PhysRef</i>     | Specifies BoardNr, PortNr to get the bitrates of. |
| in | <i>GroupIDList</i> | Specifies to which the group the PIDs belong.     |

## Returns

TR\_BitRateMeasurementList\_t Requested output Transrater group bitrate information.

## Exceptions

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main Board.                          |
| <i>OpNotSucceeded</i> | In case invalid references (PhysRef, GroupID) are used. |

## Note

This belongs to the bitrate group as well but TR\_GroupID\_List\_t is not defined there.

**8.24.4.2** `void DCM::DeviceControl::TR_GetBoardAlgorithm ( in IPS_Ref_t RefPhys, out eTR_Algorithm TR_Algorithm )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the transrating algorithm.

## Parameters

|     |                     |                                               |
|-----|---------------------|-----------------------------------------------|
| in  | <i>RefPhys</i>      | The slot(board) and port to apply the call on |
| out | <i>TR_Algorithm</i> | The current board algorithm                   |

## Exceptions

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| <i>OpNotSucceeded</i> | is thrown when no transraterboard is available      |
| <i>TimeOut</i>        | is thrown when it takes too long to handle the call |
| <i>OpNotAllowed</i>   | is thrown when no transraterboard is available      |

**8.24.4.3** `void DCM::DeviceControl::TR_GetBoardDelay ( in IPS_Ref_t RefPhys, out eTR_Delay TR_Delay )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the transrating board delay.

## Parameters

|     |                 |                                               |
|-----|-----------------|-----------------------------------------------|
| in  | <i>RefPhys</i>  | The slot(board) and port to apply the call on |
| out | <i>TR_Delay</i> |                                               |

**Exceptions**

|                       |                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | is thrown when no transraterboard is available                                                                                            |
| <i>TimeOut</i>        | is thrown when it takes too long to handle the call                                                                                       |
| <i>OpNotAllowed</i>   | is thrown when no transraterboard is available                                                                                            |
| <i>OpNotSupported</i> | is thrown when the delay is set with the IDL call TR_SetBoardDelayExtend and Get with this IDL call (this call is deprecated since R5.01) |

**Deprecated** This call should not be used anymore since R5.01 (replaced by call TR\_GetBoardDelayExtend)

**8.24.4.4** void DCM::DeviceControl::TR\_GetBoardDelayExtend ( in IPS\_Ref\_t *RefPhys*, out TR\_DelayMode\_t *TR\_Delay* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the transrating board delay.

**Parameters**

|     |                 |                                               |
|-----|-----------------|-----------------------------------------------|
| in  | <i>RefPhys</i>  | The slot(board) and port to apply the call on |
| out | <i>TR_Delay</i> |                                               |

**Exceptions**

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| <i>OpNotSucceeded</i> | is thrown when no transraterboard is available      |
| <i>TimeOut</i>        | is thrown when it takes too long to handle the call |

**Deprecated** This call should not be used anymore since R08.09 (replaced by call TR\_SetBoardDelayExtend\_V2)

**8.24.4.5** void DCM::DeviceControl::TR\_GetBoardDelayExtend\_V2 ( in IPS\_Ref\_t *RefPhys*, out TR\_DelayMode\_V2\_t *TR\_Delay* ) raises (TimeOut, OpNotAllowed, OpNotSupported)

Get the transrating board delay.

**Parameters**

|     |                 |                                               |
|-----|-----------------|-----------------------------------------------|
| in  | <i>RefPhys</i>  | The slot(board) and port to apply the call on |
| out | <i>TR_Delay</i> |                                               |

**Exceptions**

|                |                                                     |
|----------------|-----------------------------------------------------|
| <i>TimeOut</i> | is thrown when it takes too long to handle the call |
|----------------|-----------------------------------------------------|

## Version

Release 8.9

**8.24.4.6** void DCM::DeviceControl::TR\_GetBoardFunction ( in IPS\_Ref\_t *RefPhys*, out enTR\_Function\_t *enTR\_Function* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the transrater board function.

## Parameters

|     |                      |                                               |
|-----|----------------------|-----------------------------------------------|
| in  | <i>RefPhys</i>       | The slot(board) and port to apply the call on |
| out | <i>enTR_Function</i> | The current transrater board function         |

## Exceptions

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| <i>OpNotSucceeded</i> | is thrown when no transraterboard is available      |
| <i>TimeOut</i>        | is thrown when it takes too long to handle the call |
| <i>OpNotAllowed</i>   | is thrown when no transraterboard is available      |

## Version

Release 8.0

**8.24.4.7** void DCM::DeviceControl::TR\_GetBoardPcrContinuity ( in IPS\_Ref\_t *RefPhys*, out boolean *PcrContinuity* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the PCR continuity setting.

## Parameters

|     |                      |                                               |
|-----|----------------------|-----------------------------------------------|
| in  | <i>RefPhys</i>       | The slot(board) and port to apply the call on |
| out | <i>PcrContinuity</i> |                                               |

## Exceptions

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| <i>OpNotSucceeded</i> | is thrown when no transraterboard is available      |
| <i>TimeOut</i>        | is thrown when it takes too long to handle the call |
| <i>OpNotSupported</i> | When BoardNr = 0 = Main Board                       |

**8.24.4.8** void DCM::DeviceControl::TR\_GetSpliceWindowAccuracy ( in IPS\_Ref\_t *RefPhys*, out enTR\_SpliceWindowAccuracy *Accuracy* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the splice window accuracy setting.

## Parameters

|     |                 |                                               |
|-----|-----------------|-----------------------------------------------|
| in  | <i>RefPhys</i>  | The slot(board) and port to apply the call on |
| out | <i>Accuracy</i> |                                               |



**Exceptions**

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| <i>OpNotSucceeded</i> | is thrown when no transrater board is available     |
| <i>TimeOut</i>        | is thrown when it takes too long to handle the call |
| <i>OpNotSupported</i> | When BoardNr = 0 = Main Board                       |

**Version**

Supported since Release 8.5

#### 8.24.4.9 TR\_GroupID\_List\_t DCM::DeviceControl::TR\_GroupAddL ( in IPS\_Ref\_t *RefPhys*, in TR\_GroupSettings\_List\_t *GroupList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Request to add a list of new transrater groups.

Group IDs are assigned and managed by the IO Board if zero is passed in. Group IDs can be assigned by the caller if non-zero is passed in. The ID should be in the range [2-501] and not yet taken by another group. The call can fail with an exception (see below). This does not mean that the whole call failed, correct groups are added and returned in the group ID list.

**Parameters**

|    |                  |                                                                          |
|----|------------------|--------------------------------------------------------------------------|
| in | <i>RefPhys</i>   | The slot(board) and port to apply the call on.                           |
| in | <i>GroupList</i> | A sequence of <a href="#">TR_GroupSettings_t</a> objects - ID is ignored |

**Returns**

TR\_GroupID\_List\_t A list of group IDs.

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. This can be the case when : <ul style="list-style-type: none"> <li>trying to add a MultiTS group to an ASI board, this is not allowed;</li> <li>trying to add a group with invalid bitrate setting, bitrate should be higher then 1Mbps and lower then 2Gbps;</li> <li>trying to add a group with an invalid group type;</li> <li>trying to add a group with a TS reference for an output TS that is already a complete part of a transrater group (this can be the only part of a SingleTS_TS group or one of many SPTS in a MultiTS group);</li> <li>trying to add a group with a malformed TS reference (only the port number is checked for validity);</li> <li>trying to add a SingleTS_TS or SingleTS_Service group with a bitrate lower than the output TS bitrate;</li> <li>trying to add a group if there are no more group IDs available;</li> <li>trying to add a group with an ID that has already been taken;</li> </ul> |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**8.24.4.10** `TR_GroupID_List_t DCM::DeviceControl::TR_GroupChangeL ( in IPS_Ref_t RefPhys, in TR_GroupSettings_List_t GroupList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Change the settings of (multiple) transrater group(s).

#### Parameters

|    |                  |                                                                           |
|----|------------------|---------------------------------------------------------------------------|
| in | <i>RefPhys</i>   | The slot(board) and port to apply the call on.                            |
| in | <i>GroupList</i> | A sequence of <a href="#">TR_GroupSettings_t</a> objects - ID is ignored. |

#### Returns

`TR_GroupID_List_t` A list of group IDs.

#### Exceptions

|                       |                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. This can be the case when trying to change the group type or the TS reference or if the group does not exist. It is thrown also if you pass in an empty list. |
| <i>Timeout</i>        | Is thrown when it takes too long to handle the call.                                                                                                                                                   |

**8.24.4.11** `TR_GroupID_List_t DCM::DeviceControl::TR_GroupDeleteL ( in IPS_Ref_t RefPhys, in TR_GroupID_List_t GroupList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete transrater group(s).

Deleting a group means what it says : everything in the group is also removed, both from the settings and from the transrater board.

#### Parameters

|    |                  |                                                                 |
|----|------------------|-----------------------------------------------------------------|
| in | <i>RefPhys</i>   | The slot(board) and port to apply the call on.                  |
| in | <i>GroupList</i> | A sequence of group IDs for the groups that have to be deleted. |

#### Returns

`TR_GroupID_List_t` An (obviously obsolete) list of group IDs.

#### Exceptions

|                       |                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. This is the case if (one of the) group ID(s) do(es) not exist. |
| <i>Timeout</i>        | Is thrown when it takes too long to handle the call.                                                    |

**8.24.4.12** `TR_GroupSettings_List_t DCM::DeviceControl::TR_GroupGetL ( in IPS_Ref_t RefPhys, in TR_GroupID_List_t GroupIDList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the list of transrater group IDs.

It is possible to get the whole list if an empty list is passed in.

**Parameters**

|    |                    |                                                                   |
|----|--------------------|-------------------------------------------------------------------|
| in | <i>RefPhys</i>     | The slot(board) and port to apply the call on.                    |
| in | <i>GroupIDList</i> | A TR_GroupID_List_t list of group IDs. This can be an empty list. |

**Returns**

The sequence of [TR\\_GroupSettings\\_t](#) objects for the requested list of groups.

**Exceptions**

|                       |                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. This is currently only so if an invalid group ID is used. |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                               |

#### 8.24.4.13 void DCM::DeviceControl::TR\_RestartBoard ( in unsigned short *BoardNr* ) raises (TimeOut, OpNotSucceeded)

The transrater board will be restarted.

All services that are processed by the transrater, including spliced services, will be interrupted during the reset of the board.

**Parameters**

|    |                |                                 |
|----|----------------|---------------------------------|
| in | <i>BoardNr</i> | The board to apply the call on. |
|----|----------------|---------------------------------|

**Exceptions**

|                       |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | - When a general failure occurs.<br>• When there is no transrater board on the specified location |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                              |

**Version**

Release 10.10

#### 8.24.4.14 TR\_GroupServiceSettings\_List\_t DCM::DeviceControl::TR\_ServiceAddL ( in IPS\_Ref\_t *RefPhys*, in TR\_GroupServiceSettings\_List\_t *GroupServiceSettingsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Add a sequence of service(s) to transrater group(s).

This will only be allowed for selective services type of groups.

**Parameters**

|    |                                 |                                                                                                                                                                                                               |
|----|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>                  | The slot(board) and port to apply the call on.                                                                                                                                                                |
| in | <i>GroupServiceSettingsList</i> | The sequence of group ID(s) - service relations that should be added. - The settings also contain transrater specific settings like the minimum and maximum bitrate that should be applied on the service(s). |

**Returns**

The actual sequence of group ID(s) - service relations that were added.

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. Thrown also <ul style="list-style-type: none"> <li>• if group ID(s) and/or service ID(s) do(es) not exist,</li> <li>• if the transrater group is not of the correct type,</li> <li>• if the service is already part of the group or</li> <li>• if out of licenses. In case there are not enough licenses available, the service(s) will be added anyway and set in passthrough mode.</li> </ul> |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                                                                                     |

**8.24.4.15 TR\_GroupServiceSettings\_V2\_List.t DCM::DeviceControl::TR\_ServiceAddL\_V2 ( in IPS\_Ref\_t RefPhys, in TR\_GroupServiceSettings\_V2\_List\_t GroupServiceSettingsList ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)**

Add a sequence of service(s) to transrater group(s).

This will only be allowed for selective services type of groups.

**Parameters**

|    |                                 |                                                                                                                                                                                                               |
|----|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>                  | The slot(board) and port to apply the call on.                                                                                                                                                                |
| in | <i>GroupServiceSettingsList</i> | The sequence of group ID(s) - service relations that should be added. - The settings also contain transrater specific settings like the minimum and maximum bitrate that should be applied on the service(s). |

**Returns**

The actual sequence of group ID(s) - service relations that were added.

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | - when a general failure occurs. <ul style="list-style-type: none"> <li>• if group ID(s) and/or service ID(s) do(es) not exist,</li> <li>• if the transrater group is not of the correct type,</li> <li>• if the service is already part of the group or</li> <li>• if out of licenses. In case there are not enough licenses available, the service(s) will be added anyway and set in passthrough mode.</li> </ul> |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                                                                 |

**Version**

Release 8.2

**8.24.4.16** `TR_GroupServiceSettings_List_t DCM::DeviceControl::TR_ServiceChangeL ( in IPS_Ref_t RefPhys, in TR_GroupServiceSettings_List_t GroupServiceSettingsList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Change a sequence of service setting(s) that were previously added to transrater group(s).

This will only be allowed for selective services type of groups, i.e. services that were added explicitly.

**Parameters**

|    |                                 |                                                                                                                                                                                                             |
|----|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>                  | The slot(board) and port to apply the call on.                                                                                                                                                              |
| in | <i>GroupServiceSettingsList</i> | The sequence of group ID(s) - service relations that should be changed.<br>The settings contain transrater specific settings like the minimum and maximum bitrate that should be applied on the service(s). |

**Returns**

The actual sequence of group ID(s) - service relations that were changed.

**Exceptions**

|                       |                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. Thrown also if group ID(s) and/or service ID(s) do(es) not exist or if the transrater group is not of the correct type. |
| <i>LicenseError</i>   | Is throw if there are insufficient licenses.                                                                                                                     |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                                                                                             |

**8.24.4.17** `TR_GroupServiceSettings_V2_List_t DCM::DeviceControl::TR_ServiceChangeL_V2 ( in IPS_Ref_t RefPhys, in TR_GroupServiceSettings_V2_List_t GroupServiceSettingsList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Change a sequence of service setting(s) that were previously added to transrater group(s).

This will only be allowed for selective services type of groups, i.e. services that were added explicitly.

**Parameters**

|    |                                 |                                                                                                                                                                                                             |
|----|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>                  | The slot(board) and port to apply the call on.                                                                                                                                                              |
| in | <i>GroupServiceSettingsList</i> | The sequence of group ID(s) - service relations that should be changed.<br>The settings contain transrater specific settings like the minimum and maximum bitrate that should be applied on the service(s). |

**Returns**

The actual sequence of group ID(s) - service relations that were changed.

**Exceptions**

|                       |                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. Thrown also if group ID(s) and/or service ID(s) do(es) not exist or if the transrater group is not of the correct type. |
| <i>LicenseError</i>   | Is throw if there are insufficient licenses.                                                                                                                     |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                                                                                             |

**Version**

Release 8.2

**8.24.4.18** `TR_GroupServiceSettings_List_t DCM::DeviceControl::TR_ServiceDeleteL ( in IPS_Ref_t RefPhys, in TR_GroupServiceSettings_List_t GroupServiceSettingsList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a sequence of service setting(s) that were previously added to transrater group(s).

This will only be allowed for selective services type of groups, i.e. services that were added explicitly.

**Parameters**

|    |                                 |                                                                         |
|----|---------------------------------|-------------------------------------------------------------------------|
| in | <i>RefPhys</i>                  | The slot(board) and port to apply the call on.                          |
| in | <i>GroupServiceSettingsList</i> | The sequence of group ID(s) - service relations that should be deleted. |

**Returns**

The actual sequence of group ID(s) - service relations that were deleted and are now become obsolete.

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. Thrown also if group ID(s) and/or service ID(s) do(es) not exist, if the transrater group is not of the correct type, if a service is not part of the group or if there are not enough licenses anymore. In case there are not enough licenses, the action is done anyway but the service will be set in passthrough mode. |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                |

**8.24.4.19** `TR_GroupServiceSettings_V2_List_t DCM::DeviceControl::TR_ServiceDeleteL_V2 ( in IPS_Ref_t RefPhys, in TR_GroupServiceSettings_V2_List_t GroupServiceSettingsList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a sequence of service setting(s) that were previously added to transrater group(s).

This will only be allowed for selective services type of groups, i.e. services that were added explicitly.

**Parameters**

|    |                                 |                                                                         |
|----|---------------------------------|-------------------------------------------------------------------------|
| in | <i>RefPhys</i>                  | The slot(board) and port to apply the call on.                          |
| in | <i>GroupServiceSettingsList</i> | The sequence of group ID(s) - service relations that should be deleted. |

**Returns**

The actual sequence of group ID(s) - service relations that were deleted and are now become obsolete.

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | - When a general failure occurs. <ul style="list-style-type: none"> <li>• if group ID(s) and/or service ID(s) do(es) not exist,</li> <li>• if the transrater group is not of the correct type,</li> <li>• if a service is not part of the group or</li> <li>• if there are not enough licenses anymore. In case there are not enough licenses, the action is done anyway but the service will be set in passthrough mode.</li> </ul> |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                                                                                 |

**Version**

Release 8.2

**8.24.4.20** `TR_GroupServiceSettings_List.t DCM::DeviceControl::TR_ServiceGetL ( in IPS_Ref_t RefPhys, in TR_GroupID_List_t GroupIDList ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)`

Gets a sequence of service(s) that are added to transrater group(s).

This will only be relevant for selective services type of groups.

**Parameters**

|    |                    |                                                                |
|----|--------------------|----------------------------------------------------------------|
| in | <i>RefPhys</i>     | The slot(board) and port to apply the call on.                 |
| in | <i>GroupIDList</i> | The sequence of transrater groups to request the services for. |

**Returns**

GroupServiceSettingsList The sequence of group ID(s) - service relations.

**Exceptions**

|                       |                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. Thrown also if group ID(s) do(es) not exist. |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                  |

**8.24.4.21** `TR_GroupServiceSettings_V2_List.t DCM::DeviceControl::TR_ServiceGetL_V2 ( in IPS_Ref_t RefPhys, in TR_GroupID_List_t GroupIDList ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)`

Gets a sequence of service(s) that are added to transrater group(s).

This will only be relevant for selective services type of groups.

**Parameters**

|    |                    |                                                                |
|----|--------------------|----------------------------------------------------------------|
| in | <i>RefPhys</i>     | The slot(board) and port to apply the call on.                 |
| in | <i>GroupIDList</i> | The sequence of transrater groups to request the services for. |

**Returns**

GroupServiceSettingsList The sequence of group ID(s) - service relations.

**Exceptions**

|                       |                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. Thrown also if group ID(s) do(es) not exist. |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                  |

**Version**

Release 8.2

**8.24.4.22** void DCM::DeviceControl::TR\_SetBoardAlgorithm ( in IPS\_Ref\_t *RefPhys*, in eTR\_Algorithm *TR\_Algorithm* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the transrating algorithm.

**Parameters**

|    |                     |                                               |
|----|---------------------|-----------------------------------------------|
| in | <i>RefPhys</i>      | The slot(board) and port to apply the call on |
| in | <i>TR_Algorithm</i> | The new board algorithm to apply              |

**Exceptions**

|                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | is thrown when any of the supplied paramaters is out of range and when no transraterboard is available |
| <i>TimeOut</i>        | is thrown when it takes too long to handle the call                                                    |
| <i>OpNotAllowed</i>   | is thrown when no transraterboard is available                                                         |

**8.24.4.23** void DCM::DeviceControl::TR\_SetBoardDelay ( in IPS\_Ref\_t *RefPhys*, in eTR\_Delay *TR\_Delay* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the transrating board delay.

**Parameters**

|    |                 |                                               |
|----|-----------------|-----------------------------------------------|
| in | <i>RefPhys</i>  | The slot(board) and port to apply the call on |
| in | <i>TR_Delay</i> |                                               |

**Exceptions**

|                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | is thrown when any of the supplied paramaters is out of range and when no transraterboard is available |
| <i>TimeOut</i>        | is thrown when it takes too long to handle the call                                                    |
| <i>OpNotAllowed</i>   | is thrown when no transraterboard is available                                                         |

**Deprecated** This call should not be used anymore since R5.01 (replaced by call TR\_SetBoardDelay-Extend)



**8.24.4.24** void DCM::DeviceControl::TR\_SetBoardDelayExtend ( in IPS\_Ref\_t *RefPhys*, in TR\_DelayMode\_t *TR\_Delay* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the transrating board delay.

#### Parameters

|    |                 |                                               |
|----|-----------------|-----------------------------------------------|
| in | <i>RefPhys</i>  | The slot(board) and port to apply the call on |
| in | <i>TR_Delay</i> |                                               |

#### Exceptions

|                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | is thrown when any of the supplied paramaters is out of range and when no transraterboard is available |
| <i>TimeOut</i>        | is thrown when it takes too long to handle the call                                                    |

**Deprecated** This call should not be used anymore since R08.09 (replaced by call TR\_GetBoardDelay-Extend\_V2)

**8.24.4.25** void DCM::DeviceControl::TR\_SetBoardDelayExtend\_V2 ( in IPS\_Ref\_t *RefPhys*, in TR\_DelayMode\_V2\_t *TR\_Delay* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Set the transrating board delay.

#### Parameters

|    |                 |                                               |
|----|-----------------|-----------------------------------------------|
| in | <i>RefPhys</i>  | The slot(board) and port to apply the call on |
| in | <i>TR_Delay</i> |                                               |

#### Exceptions

|                        |                                                                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | is thrown <ul style="list-style-type: none"> <li>• when any of the supplied paramaters is out of range</li> <li>• when a feature of the co-processor board is configured on a service or TS</li> </ul> |
| <i>TimeOut</i>         | is thrown when it takes too long to handle the call                                                                                                                                                    |

#### Version

Release 8.9

**8.24.4.26** void DCM::DeviceControl::TR\_SetBoardFunction ( in IPS\_Ref\_t *RefPhys*, in enTR\_Function\_t *enTR\_Function* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the transrater board function.

The transrater board can switch between multiple functions:

- Normal: Supports transrating, DPI, PID Sync, Slate insertion,...

- AVC-DPI: Supports AVC splicing but nothing else.

**Parameters**

|    |                      |                                               |
|----|----------------------|-----------------------------------------------|
| in | <i>RefPhys</i>       | The slot(board) and port to apply the call on |
| in | <i>enTR_Function</i> | the board function                            |

**Exceptions**

|                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | is thrown when any of the supplied paramaters is out of range and when no transraterboard is available |
| <i>TimeOut</i>        | is thrown when it takes too long to handle the call                                                    |
| <i>OpNotAllowed</i>   | is thrown when no transraterboard is available                                                         |

**Version**

Release 8.0

**8.24.4.27** void DCM::DeviceControl::TR\_SetBoardPcrContinuity ( in IPS\_Ref\_t *RefPhys*, in boolean *PcrContinuity* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the PCR continuity setting.

**Parameters**

|    |                      |                                               |
|----|----------------------|-----------------------------------------------|
| in | <i>RefPhys</i>       | The slot(board) and port to apply the call on |
| in | <i>PcrContinuity</i> |                                               |

**Exceptions**

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| <i>OpNotSucceeded</i> | is thrown when no transraterboard is available      |
| <i>TimeOut</i>        | is thrown when it takes too long to handle the call |
| <i>OpNotSupported</i> | When BoardNr = 0 = Main Board                       |

**8.24.4.28** void DCM::DeviceControl::TR\_SetSpliceWindowAccuracy ( in IPS\_Ref\_t *RefPhys*, in enTR\_SpliceWindowAccuracy *Accuracy* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the splice window accuracy setting.

**Parameters**

|    |                 |                                               |
|----|-----------------|-----------------------------------------------|
| in | <i>RefPhys</i>  | The slot(board) and port to apply the call on |
| in | <i>Accuracy</i> |                                               |

**Exceptions**

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| <i>OpNotSucceeded</i> | is thrown when no transrater board is available     |
| <i>TimeOut</i>        | is thrown when it takes too long to handle the call |
| <i>OpNotSupported</i> | When BoardNr = 0 = Main Board                       |

**Version**

Supported since Release 8.5

**8.24.4.29** `TR_TSAdd_List_t DCM::DeviceControl::TR_TS_AddL ( in IPS_Ref_t RefPhys, in TR_TSAdd_List_t GroupTSList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add complete mux output transport stream(s) to transrater group(s).

When a change occurs on the muxed output transport stream this is updated in the group automatically also because of the transport stream - transrater group relation. So there is NO NEED to add newly muxed output services explicitly to the transrater group (type single TS or multi TS) if that group already contains the transport stream. Transport streams as a whole or not put in transrater groups of type selective services. For those types of transrater groups the services should be added manually to a SingleTS\_Service group by calling the TS\_ServiceAddL call.

**Parameters**

|    |                    |                                                                                     |
|----|--------------------|-------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>     | The slot(board) and port to apply the call on.                                      |
| in | <i>GroupTSList</i> | A sequence of tranrater group - transport stream(s) relations that should be added. |

**Returns**

The sequence of transrater group - transport stream(s) relations that were actually created.

**Exceptions**

|                       |                                          |
|-----------------------|------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. |
|-----------------------|------------------------------------------|

This is the case :

- if group ID(s) and/or transport stream ID(s) do not exist;
- if the transport stream is already part of a group;
- if trying to add more than one TS to a SingleTS\_TS group;
- if trying to add a TS to a SingleTS\_Service group;
- if trying to add a MPTS to a MultiTS group;
- if not enough licenses are available (the TS will be added but some or all services will be put in passthrough);
- if there are not enough internal resources anymore to add the TS to a group;

**Exceptions**

|                |                                                      |
|----------------|------------------------------------------------------|
| <i>TimeOut</i> | Is thrown when it takes too long to handle the call. |
|----------------|------------------------------------------------------|

**8.24.4.30** `TR_TSAdd_List_t DCM::DeviceControl::TR_TS_DeleteL ( in IPS_Ref_t RefPhys, in TR_TSAdd_List_t GroupTSList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete TS(s) from transrater group(s).

This means that every single pid from every TS specified is removed from the transrater group.

#### Parameters

|    |                    |                                                                                     |
|----|--------------------|-------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>     | The slot(board) and port to apply the call on.                                      |
| in | <i>GroupTSList</i> | The sequence of group ID(s) - transport stream(s) relations that should be deleted. |

#### Returns

The sequence of (just becoming obsolete) group ID(s) = transport stream(s) relations.

#### Exceptions

|                       |                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. Thrown also if group ID(s) do(es) not exist. |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                  |

**8.24.4.31** `TR_TSAdd_List_t DCM::DeviceControl::TR_TS_GetL ( in IPS_Ref_t RefPhys, in TR_GroupID_List_t GroupIDList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets a list of TSs that are completely part of the transrater group(s).

#### Parameters

|    |                    |                                                                    |
|----|--------------------|--------------------------------------------------------------------|
| in | <i>RefPhys</i>     | The slot(board) and port to apply the call on.                     |
| in | <i>GroupIDList</i> | The sequence of group IDs the transport streams are requested for. |

#### Returns

The sequence of transrater group - transport stream(s) relations. Only the valid groups are returned in the list.

#### Exceptions

|                       |                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Is thrown when a general failure occurs. This is for the moment only the case if (a) group ID(s) do(es) not exist. |
| <i>TimeOut</i>        | Is thrown when it takes too long to handle the call.                                                               |

## 8.25 Re-alignment Mux Staging

This contains specific types, enums and methods for controlling the Re-alignment Mux Staging (performed on the co-processor board known as Transrater Board)

### Classes

- struct [DCM::DeviceControl::RMX\\_GroupSettings\\_t](#)  
*Realignment Mux group settings.*
- struct [DCM::DeviceControl::RMX\\_GroupSvc\\_t](#)  
*A service that is part of a Realignment Mux group.*
- struct [DCM::DeviceControl::RMX\\_GroupSvcs\\_t](#)  
*A set of services belonging to the same Realignment Mux group.*

### Typedefs

- typedef unsigned long [DCM::DeviceControl::RMX\\_GroupID\\_t](#)  
*Realignment Mux group ID.*
- typedef sequence< [RMX\\_GroupID\\_t](#) > [DCM::DeviceControl::RMX\\_GroupID\\_List\\_t](#)  
*A list of Realignment Mux group IDs.*
- typedef sequence< [RMX\\_GroupSettings\\_t](#) > [DCM::DeviceControl::RMX\\_GroupSettings\\_List\\_t](#)  
*A list of Realignment Mux group settings.*
- typedef sequence< [RMX\\_GroupSvc\\_t](#) > [DCM::DeviceControl::RMX\\_GroupSvc\\_List\\_t](#)
- typedef sequence< [RMX\\_GroupSvcs\\_t](#) > [DCM::DeviceControl::RMX\\_GroupSvcs\\_List\\_t](#)  
*A list where each node is a set of Realignment Mux services belonging to the same group.*

### Enumerations

- enum [DCM::DeviceControl::eRMX\\_GroupType\\_t](#) { [DCM::DeviceControl::eRMX\\_SingleTS\\_Selected-Svc](#), [DCM::DeviceControl::eRMX\\_GT\\_Reserved\\_1](#), [DCM::DeviceControl::eRMX\\_GT\\_Reserved\\_2](#), [DCM::DeviceControl::eRMX\\_GT\\_Reserved\\_3](#), [DCM::DeviceControl::eRMX\\_GT\\_Reserved\\_4](#), [DCM::DeviceControl::eRMX\\_GT\\_Reserved\\_5](#), [DCM::DeviceControl::eRMX\\_GT\\_Reserved\\_6](#), [DCM::DeviceControl::eRMX\\_GT\\_Reserved\\_7](#), [DCM::DeviceControl::eRMX\\_GT\\_Reserved\\_8](#) }  
*Realignment group type.*
- enum [DCM::DeviceControl::eRMX\\_ServiceStatus\\_t](#) { [DCM::DeviceControl::eRMX\\_SvcStatus\\_-Passed\\_Delayed](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Blocked\\_NoMarkers](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Blocked\\_NegativeDelay](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_NotPresent](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Passed\\_Undelayed](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Passed\\_Delayed\\_NoMarkers](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Passed\\_Delayed\\_InvalidTime](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Blocked\\_InvalidTime](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Blocked\\_IncompatibleRealignmentInfo](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Blocked\\_DejitterBufferReset](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Blocked\\_DtsStcCompOut-OfLimits](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Reserved1](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Reserved2](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Reserved3](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Reserved4](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Reserved5](#), [DCM::DeviceControl::eRMX\\_SvcStatus\\_Reserved6](#) }  
*Realignment Mux service status.*

## Functions

- void [DCM::DeviceControl::RMX\\_SetRealignmentBoardMode](#) (in unsigned short BoardNr, in boolean Enable) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Enable/disable Realignment Mode on a specific board.*
- void [DCM::DeviceControl::RMX\\_GetRealignmentBoardMode](#) (in unsigned short BoardNr, out boolean IsEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Query the Realignment Mode of a specific board.*

- void [DCM::DeviceControl::RMX\\_GroupCreate](#) (in unsigned short BoardNr, in RMX\_GroupSettings\_List\_t GroupSettingsList, out RMX\_GroupID\_List\_t CreatedGroupIDs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Create a set of Realignment Mux groups.*

- void [DCM::DeviceControl::RMX\\_GroupGet](#) (in IPS\_RefTS\_t Location, in RMX\_GroupID\_List\_t - GroupIDList, out RMX\_GroupSettings\_List\_t GroupSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of Realignment Mux group settings.*

- void [DCM::DeviceControl::RMX\\_GroupChange](#) (in unsigned short BoardNr, in RMX\_GroupSettings\_List\_t GroupList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Change the settings of one or more Realignment Mux groups.*

- void [DCM::DeviceControl::RMX\\_GroupDelete](#) (in unsigned short BoardNr, in RMX\_GroupID\_List\_t GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete one or more Realignment Mux groups.*

- void [DCM::DeviceControl::RMX\\_ServiceAdd](#) (in unsigned short BoardNr, in RMX\_GroupSvc\_List\_t GroupServicesList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Add services to a Realignment Mux group.*

- void [DCM::DeviceControl::RMX\\_ServiceGet](#) (in unsigned short BoardNr, in RMX\_GroupID\_List\_t GroupIDList, out RMX\_GroupSvc\_List\_t GroupServicesList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of services that were added explicitly.*

- void [DCM::DeviceControl::RMX\\_ServiceDelete](#) (in unsigned short BoardNr, in RMX\_GroupSvc\_List\_t GroupServicesList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete a subset of the services that were previously added explicitly to one or more Realignment Mux groups.*

### 8.25.1 Detailed Description

This contains specific types, enums and methods for controlling the Re-alignment Mux Staging (performed on the co-processor board known as Transrater Board)

### 8.25.2 Typedef Documentation

#### 8.25.2.1 typedef sequence<RMX\_GroupID\_t> DCM::DeviceControl::RMX\_GroupID\_List\_t

A list of Realignment Mux group IDs.

Definition at line 15609 of file DCM.idl.

**8.25.2.2 typedef unsigned long DCM::DeviceControl::RMX\_GroupID\_t**

Realignment Mux group ID.

Definition at line 15605 of file DCM.idl.

**8.25.2.3 typedef sequence<RMX\_GroupSettings\_t> DCM::DeviceControl::RMX\_GroupSettings\_List\_t**

A list of Realignment Mux group settings.

Definition at line 15656 of file DCM.idl.

**8.25.2.4 typedef sequence<RMX\_GroupSvc\_t> DCM::DeviceControl::RMX\_GroupSvc\_List\_t**

Definition at line 15730 of file DCM.idl.

**8.25.2.5 typedef sequence<RMX\_GroupSvcs\_t> DCM::DeviceControl::RMX\_GroupSvcs\_List\_t**

A list where each node is a set of Realignment Mux services belonging to the same group.

Definition at line 15742 of file DCM.idl.

**8.25.3 Enumeration Type Documentation****8.25.3.1 enum DCM::DeviceControl::eRMX\_GroupType\_t**

Realignment group type.

Behaviour depends on the type of the Realignment Mux group. Currently only selected services of a single TS is supported.

Enumerator:

```
eRMX_SingleTS_SelectedSvc
eRMX_GT_Reserved_1
eRMX_GT_Reserved_2 e.g. eRMX_SingleTS_AllSvc
eRMX_GT_Reserved_3 e.g. eRMX_MultiTS
eRMX_GT_Reserved_4
eRMX_GT_Reserved_5
eRMX_GT_Reserved_6
eRMX_GT_Reserved_7
eRMX_GT_Reserved_8
```

Definition at line 15617 of file DCM.idl.

**8.25.3.2 enum DCM::DeviceControl::eRMX\_ServiceStatus\_t**

Realignment Mux service status.

Passed\_Delayed: Realignment mux delay mode is being applied on the service.

Blocked\_NoMarkers: The service is blocked on the realignment mux because no s-tick markers are present.

Blocked\_NegativeDelay: The service is blocked on the realignment mux because the delay for the service is higher than the configured end-to-end delay.

NotPresent: No realignment mux is not applied on the service because the service is not present at the output.

Passed\_Undelayed: Realignment mux is not applied on the service because delay mode has been disabled or temporarily not working.

#### Enumerator:

*eRMX\_SvcStatus\_Passed\_Delayed* OK.

*eRMX\_SvcStatus\_Blocked\_NoMarkers* NOK: S-tick markers are missing.

*eRMX\_SvcStatus\_Blocked\_NegativeDelay* NOK: The delay exceeds the configured end-to-end delay. The applied delay is negative due to the actual delay that is too high.

*eRMX\_SvcStatus\_NotPresent* NOK: No service present at output.

*eRMX\_SvcStatus\_Passed\_Undelayed* NOK: Delay mode is disabled or not working.

*eRMX\_SvcStatus\_Passed\_Delayed\_NoMarkers* Still OK, but warning. Shifts after 5 secs to blocked.

*eRMX\_SvcStatus\_Passed\_Delayed\_InvalidTime* Still OK, but warning. Shifts after 60 secs to blocked.

*eRMX\_SvcStatus\_Blocked\_InvalidTime* NOK: invalid time being received from the encoder for more than 60 secs.

*eRMX\_SvcStatus\_Blocked\_IncompatibleRealignmentInfo* Transitory phenomenon: recovery of encoder from error state (<1sec).

*eRMX\_SvcStatus\_Blocked\_DejitterBufferReset* Transitory phenomenon: network jitter triggered a reset of the dejitter buffer.

*eRMX\_SvcStatus\_Blocked\_DtsStcCompOutOfLimits* Transitory phenomenon: DTS-STC compensation out-of-limits.

*eRMX\_SvcStatus\_Reserved1* Eg. Blocked\_InvalidClock (to be decided)

*eRMX\_SvcStatus\_Reserved2*

*eRMX\_SvcStatus\_Reserved3*

*eRMX\_SvcStatus\_Reserved4*

*eRMX\_SvcStatus\_Reserved5*

*eRMX\_SvcStatus\_Reserved6*

Definition at line 15681 of file DCM.idl.

### 8.25.4 Function Documentation

**8.25.4.1** void DCM::DeviceControl::RMX\_GetRealignmentBoardMode ( in unsigned short *BoardNr*, out boolean *IsEnabled* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Query the Realignment Mode of a specific board.

#### Parameters

|     |                  |                                                                |
|-----|------------------|----------------------------------------------------------------|
| in  | <i>BoardNr</i>   | The slot (board) to query whether realignment mode is enabled. |
| out | <i>IsEnabled</i> | True indicates it is enabled, false otherwise.                 |



**Exceptions**

|                        |                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------|
| <i>Timeout</i>         | Is thrown when it takes too long to handle the call.                                             |
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>supplying an invalid board nr;</li> </ul> |

**Version**

Release 11.0

**8.25.4.2** void DCM::DeviceControl::RMX\_GroupChange ( in unsigned short *BoardNr*, in RMX\_GroupSettings\_List\_t *GroupList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Change the settings of one or more Realignment Mux groups.

**Parameters**

|    |                  |                                                                           |
|----|------------------|---------------------------------------------------------------------------|
| in | <i>BoardNr</i>   | The slot (board) to apply the call on.                                    |
| in | <i>GroupList</i> | The list of new RMX group settings. The group IDs are used as references. |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>making call while realignment board mode is not enabled;</li> <li>supplying an invalid or non-existing board nbr;</li> <li>supplying an empty list of group settings;</li> <li>supplying a non-existing group ID;</li> <li>supplying a group name that is too long.</li> <li>supplying a different group type than the one used when creating the group;</li> <li>supplying a different location than the one used when creating the group;</li> <li>supplying an end-to-end delay that is out of range;</li> </ul> |

**Version**

Release 11.0

**8.25.4.3** void DCM::DeviceControl::RMX\_GroupCreate ( in unsigned short *BoardNr*, in RMX\_GroupSettings\_List\_t *GroupSettingsList*, out RMX\_GroupID\_List\_t *CreatedGroupIDs* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Create a set of Realignment Mux groups.

**Remarks**

Group IDs are assigned and managed by the IO board. After this assignment they are considered read-only. Group IDs that had initially been set by the caller were ignored.

## Parameters

|     |                           |                                                                                                                                |
|-----|---------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| in  | <i>BoardNr</i>            | The slot (board) to apply the call on.                                                                                         |
| in  | <i>GroupSettings-List</i> | A list of RMX group settings. (ID is ignored)                                                                                  |
| out | <i>CreatedGroup-IDs</i>   | The group IDs of the groups that were created. The IDs are returned in the same order as how the group settings were supplied. |

## Exceptions

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>• making call while realignment board mode is not enabled;</li> <li>• supplying an invalid or non-existing board nbr;</li> <li>• supplying an empty list of group settings;</li> <li>• trying to create a group when there are no more groups available (out of resources);</li> <li>• supplying a group name that is too short or too long;</li> <li>• supplying an invalid group type;</li> <li>• supplying an unsupported group type (currently no single-ts-all-services nor multi-ts are supported; due to this some other exceptional cases could not yet occur);</li> <li>• supplying a multi-ts group type if the board nbr refers to an ASI board (by definition ASI has only one TS available!) [NOT YET APPLICABLE];</li> <li>• supplying a location that gives a conflict with the board nr parameter;</li> <li>• supplying a location that is invalid (ie port nbr should not be missing and neither should the TS index in case of single-ts-selected-services);</li> <li>• supplying a TS reference that is not an existing output TS reference;</li> <li>• supplying a TS reference for an output TS that is already completely part of another RMX group. (as the only member of a single-ts-all-services if it is an MPTS, or as one of the members of a multi-ts if it is an SPTS) [NOT YET APPLICABLE];</li> <li>• supplying an end-to-end delay that is out of range;</li> </ul> |

## Version

Release 11.0

**8.25.4.4** void DCM::DeviceControl::RMX\_GroupDelete ( in unsigned short *BoardNr*, in RMX\_GroupID\_List\_t *GroupIDList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Delete one or more Realignment Mux groups.

## Remarks

Not only the group itself, but also each member of the group will be deleted.

## Parameters

|    |                    |                                              |
|----|--------------------|----------------------------------------------|
| in | <i>BoardNr</i>     | The slot (board) to apply the call on.       |
| in | <i>GroupIDList</i> | The group IDs of the groups to be retrieved. |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                   |
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>• making call while realignment board mode is not enabled;</li> <li>• supplying an invalid or non-existing board nbr;</li> <li>• supplying an empty list of group IDs;</li> <li>• supplying a list of groups IDs where some of the IDs do not exist;</li> </ul> |

**Version**

Release 11.0

**8.25.4.5** void DCM::DeviceControl::RMX\_GroupGet ( in IPS\_RefTS\_t *Location*, in RMX\_GroupID\_List\_t *GroupIDList*, out RMX\_GroupSettings\_List\_t *GroupSettingsList* )  
raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a list of Realignment Mux group settings.

**Remarks**

Both the [IPS\\_RefTS\\_t](#) and RMX\_GroupID\_List\_t are used as filter. A) If the RMX\_GroupID\_List\_t is empty, then the [IPS\\_RefTS\\_t](#) is used as filter when retrieving the RMX group settings:

- if only the board is set (ie port is REF\_ALL): all RMX groups of the board are returned;
- if only the board and port are set: all RMX groups located on the port are returned;
- if board, port and TS are set: all RMX groups located on the TS are returned. B) If the RMX\_GroupID\_List\_t is non-empty, the group IDs are used to check against the [IPS\\_RefTS\\_t](#) and retrieve the groups.

**Parameters**

|     |                           |                                                                                                                                                       |
|-----|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| in  | <i>Location</i>           | The board, port and/or TS to retrieve the groups from.                                                                                                |
| in  | <i>GroupIDList</i>        | The group IDs of the groups to be retrieved.                                                                                                          |
| out | <i>GroupSettings-List</i> | The group settings corresponding to the group IDs that were supplied. -<br>The settings are returned in the order as how the group IDs were supplied. |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>• making call while realignment board mode is not enabled;</li> <li>• supplying an invalid or non-existing board nbr;</li> <li>• supplying a non-existing group ID;</li> <li>• supplying an inconsistent port/TS reference (ie if the port number is invalid, the TS index also should);</li> <li>• supplying a TS reference (ie <a href="#">IPS_RefTS_t</a>) referring to a non-existing location;</li> <li>• supplying a TS reference with a valid TS index that does not refer to an *output* TS;</li> <li>• supplying an inconsistent port/TS reference and group ID (ie the location of the group does not fit with one of the supplied group IDs);</li> </ul> |

**Version**

Release 11.0

**8.25.4.6** void DCM::DeviceControl::RMX\_ServiceAdd ( in unsigned short *BoardNr*, in RMX\_GroupSvcList\_t *GroupServicesList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Add services to a Realignment Mux group.

**Remarks**

This is only allowed for groups of type SingleTS\_SelectedSvc

**Parameters**

|    |                          |                                                                                                          |
|----|--------------------------|----------------------------------------------------------------------------------------------------------|
| in | <i>BoardNr</i>           | The slot (board) to apply the call on.                                                                   |
| in | <i>GroupServicesList</i> | A list of sets of service references where each set contains all services to be added to the same group. |

## Exceptions

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <i>OpNotSucceeded</i>  | Is thrown when: <ul style="list-style-type: none"> <li>supplying an invalid or non-existing board nbr;</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>making call while realignment board mode is not enabled;</li> <li>supplying an empty list of service sets;</li> <li>supplying a list that tries to add services to a non-existing group;</li> <li>supplying a list that tries to add services to a group of the wrong type (ie services can only be added to groups of type single-ts-selected-services);</li> <li>supplying a list that contains references to non-existing services;</li> <li>supplying a list that tries to add a service to a group when it is already part of another group;</li> <li>supplying a list that tries to add a service to the group where it already belongs to;</li> <li>supplying a list where the MPTS of the services does not match the Location (MPTS) of the group where the services are to be added to;</li> <li>trying to add services such that the upper limit on the number of services is exceeded;</li> </ul> |

## Version

Release 11.0

**8.25.4.7** void DCM::DeviceControl::RMX\_ServiceDelete ( in unsigned short *BoardNr*, in RMX\_GroupSvcs\_List\_t *GroupServicesList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Delete a subset of the services that were previously added explicitly to one or more Realignment Mux groups.

## Remarks

This is only allowed for groups of type SingleTS\_SelectedSvc

## Parameters

|    |                           |                                        |
|----|---------------------------|----------------------------------------|
| in | <i>BoardNr</i>            | The slot (board) to apply the call on. |
| in | <i>GroupServices-List</i> | The list of service references         |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>• making call while realignment board mode is not enabled;</li> <li>• supplying an invalid or non-existing board nbr;</li> <li>• supplying an empty list of service references;</li> <li>• supplying a list of service references where some of the references do not exist</li> <li>• supplying a list of service references where some of the references are not part of a realignment mux group</li> <li>• supplying a list of service references where some of the references were not previously added explicitly to the group (and not yet deleted from the group)</li> </ul> |

**Version**

Release 11.0

**8.25.4.8** void DCM::DeviceControl::RMX\_ServiceGet ( in unsigned short *BoardNr*, in RMX\_GroupID\_List\_t *GroupIDList*, out RMX\_GroupSvcs\_List\_t *GroupServicesList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a list of services that were added explicitly.

**Remarks**

This is only allowed for groups of type SingleTS\_SelectedSvc

**Parameters**

|     |                          |                                                                                                                                                                                       |
|-----|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in  | <i>BoardNr</i>           | The slot (board) to apply the call on.                                                                                                                                                |
| in  | <i>GroupIDList</i>       | The group IDs of the groups of which the service references are to be retrieved.                                                                                                      |
| out | <i>GroupServicesList</i> | A list of sets of service references where each set consists of the references that belong to a certain group. The sets are returned in the order as how the group IDs were supplied. |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>• making call while realignment board mode is not enabled;</li> <li>• supplying an invalid or non-existing board nbr;</li> <li>• supplying an empty list of group IDs;</li> <li>• supplying a list of group IDs where some of the IDs do not exist;</li> <li>• supplying a list of group IDs where some of the IDs are of the wrong type (ie services can only be retrieved from groups of type single-ts-selected-services)</li> </ul> |

**Version**

Release 11.0

**8.25.4.9** void DCM::DeviceControl::RMX\_SetRealignmentBoardMode ( in unsigned short *BoardNr*, in boolean *Enable* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Enable/disable Realignment Mode on a specific board.

**Parameters**

|    |                |                                                         |
|----|----------------|---------------------------------------------------------|
| in | <i>BoardNr</i> | The slot (board) to enable/disable realignment mode on. |
| in | <i>Enable</i>  | Enable realignment mode if true, disable otherwise.     |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                |
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"><li>• supplying an invalid board nr;</li><li>• trying to enable realignment mode while another feature requiring the co-processor is active on at least one service of the board;</li><li>• trying to disable realignment mode while there are still realignment mux groups configured on the IO-board;</li></ul> |

**Version**

Release 11.0

## 8.26 MFP Statmux staging

This contains specific types, enums and methods for controlling the MFP Statmuxing.

### Classes

- struct [DCM::DeviceControl::SMX\\_MFP\\_GroupSettings\\_t](#)  
*Statmux group settings The Type of the SMXGroup is important concerning further behavior and meanings of the different fields.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_TsSettings\\_t](#)  
*Data linked with a TS in statmux context.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_Group\\_TSSettings\\_t](#)  
*List of TS settings on Statmux group Can be used to add/get TS to/from a group.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_Group\\_TSs\\_t](#)  
*List of TS on a Statmux group, used for deleting TS from gorup.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_t](#)  
*Statmux setting of a service.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_V2\\_t](#)  
*Statmux setting of a service, Version 2.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_Group\\_SvcSettings\\_t](#)  
*Service settings within a group.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_Group\\_SvcSettings\\_V2\\_t](#)  
*Service settings within a group.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_Group\\_Svc\\_t](#)  
*Services in a group.*

### Typedefs

- typedef sequence < [SMX\\_MFP\\_GroupSettings\\_t](#) > [DCM::DeviceControl::SMX\\_MFP\\_GroupSettings\\_List\\_t](#)  
*A sequence of Statmux group settings.*
- typedef sequence< unsigned long > [DCM::DeviceControl::SMX\\_MFP\\_GroupID\\_List\\_t](#)  
*list of group ids.*
- typedef sequence < [SMX\\_MFP\\_TsSettings\\_t](#) > [DCM::DeviceControl::SMX\\_MFP\\_TsSettings\\_List\\_t](#)  
*A sequence of Statmux Transport Stream settings.*
- typedef sequence < [SMX\\_MFP\\_Group\\_TSSettings\\_t](#) > [DCM::DeviceControl::SMX\\_MFP\\_Group\\_TSSettings\\_List\\_t](#)  
*A sequence of [SMX\\_MFP\\_Group\\_TSSettings\\_t](#).*
- typedef sequence < [SMX\\_MFP\\_Group\\_TSs\\_t](#) > [DCM::DeviceControl::SMX\\_MFP\\_Group\\_TSs\\_List\\_t](#)  
*A sequence of [SMX\\_MFP\\_Group\\_TSs\\_t](#).*
- typedef sequence < [SMX\\_MFP\\_SvcSettings\\_t](#) > [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_List\\_t](#)  
*A sequence of Statmux services.*
- typedef sequence < [SMX\\_MFP\\_SvcSettings\\_V2\\_t](#) > [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_V2\\_List\\_t](#)  
*A sequence of Statmux services.*



- typedef sequence < SMX\_MFP\_Group\_SvcSettings\_t > DCM::DeviceControl::SMX\_MFP\_Group\_SvcSettings\_List\_t  
A sequence of *SMX\_MFP\_Group\_SvcSettings\_t*.
- typedef sequence < SMX\_MFP\_Group\_SvcSettings\_V2\_t > DCM::DeviceControl::SMX\_MFP\_Group\_SvcSettings\_V2\_List\_t  
A sequence of *SMX\_MFP\_Group\_SvcSettings\_V2\_t*.
- typedef sequence < SMX\_MFP\_Group\_Svc\_t > DCM::DeviceControl::SMX\_MFP\_Group\_Svc\_List\_t  
A sequence of *SMX\_MFP\_Group\_Svc\_t*.

### Enumerations

- enum DCM::DeviceControl::eSMX\_MFP\_GroupType\_t { DCM::DeviceControl::eSMX\_MFP\_MultiTS, DCM::DeviceControl::eSMX\_MFP\_SingleTS\_AllSvc, DCM::DeviceControl::eSMX\_MFP\_SingleTS\_SelectedSvc, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_3, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_4, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_5, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_6, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_7, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_8, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_9, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_10, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_11, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_12, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_13, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_14, DCM::DeviceControl::eSMX\_MFP\_GT\_Reserved\_15 }  
*Statmux group type.*
- enum DCM::DeviceControl::eSMX\_MFP\_SvcState { DCM::DeviceControl::eSMX\_MFP\_SvcState\_StatMux, DCM::DeviceControl::eSMX\_MFP\_SvcState\_PassThrough, DCM::DeviceControl::eSMX\_MFP\_SvcState\_CBR, DCM::DeviceControl::eSMX\_MFP\_SvcState\_CappedVBR, DCM::DeviceControl::eSMX\_MFP\_SvcState\_PassThroughMeasurable, DCM::DeviceControl::eSMX\_MFP\_SvcState\_Reserved\_5, DCM::DeviceControl::eSMX\_MFP\_SvcState\_Reserved\_6, DCM::DeviceControl::eSMX\_MFP\_SvcState\_Reserved\_7, DCM::DeviceControl::eSMX\_MFP\_SvcState\_Reserved\_8, DCM::DeviceControl::eSMX\_MFP\_SvcState\_Reserved\_9, DCM::DeviceControl::eSMX\_MFP\_SvcState\_Reserved\_10, DCM::DeviceControl::eSMX\_MFP\_SvcState\_Reserved\_11, DCM::DeviceControl::eSMX\_MFP\_SvcState\_Reserved\_12, DCM::DeviceControl::eSMX\_MFP\_SvcState\_Reserved\_13, DCM::DeviceControl::eSMX\_MFP\_SvcState\_Reserved\_14, DCM::DeviceControl::eSMX\_MFP\_SvcState\_Reserved\_15 }  
*The mode of a service.*
- enum DCM::DeviceControl::eSMX\_MFP\_SvcMode { DCM::DeviceControl::eSMX\_MFP\_SvcMode\_StatMux, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_RateLimit, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_2, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_3, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_4, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_5, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_6, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_7, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_8, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_9, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_10, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_11, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_12, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_13, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_14, DCM::DeviceControl::eSMX\_MFP\_SvcMode\_Reserved\_15 }  
*The Statmux mode of a service.*
- enum DCM::DeviceControl::eSMX\_MFP\_PassThroughMode { DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Measured, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_UnMeasured, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_2, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_3, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_4, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_5, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_6, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_7, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_8, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_9, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_10, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_11, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_12, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_13, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_14, DCM::DeviceControl::eSMX\_MFP\_PassThroughMode\_Reserved\_15 }

```
Reserved_4, DCM::DeviceControl::eSMX_MFP_PassThroughMode_Reserved_5, DCM::DeviceControl::eSMX_MFP_PassThroughMode_Reserved_6, DCM::DeviceControl::eSMX_MFP_PassThroughMode_Reserved_7, DCM::DeviceControl::eSMX_MFP_PassThroughMode_Reserved_8, DCM::DeviceControl::eSMX_MFP_PassThroughMode_Reserved_9, DCM::DeviceControl::eSMX_MFP_PassThroughMode_Reserved_10, DCM::DeviceControl::eSMX_MFP_PassThroughMode_Reserved_11, DCM::DeviceControl::eSMX_MFP_PassThroughMode_Reserved_12, DCM::DeviceControl::eSMX_MFP_PassThroughMode_Reserved_13, DCM::DeviceControl::eSMX_MFP_PassThroughMode_Reserved_14, DCM::DeviceControl::eSMX_MFP_PassThroughMode_Reserved_15 }
```

*The PassThrough mode of a service.*

## Functions

- void [DCM::DeviceControl::SMX\\_MFP\\_GroupCreate](#) (in unsigned short BoardNr, in SMX\_MFP\_GroupSettings\_List\_t GroupSettingsList, out SMX\_MFP\_GroupID\_List\_t CreatedGroupIDs) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Request to create a list of statmux groups.*
- void [DCM::DeviceControl::SMX\\_MFP\\_GroupGet](#) (in IPS\_RefTS\_t RefTs, in SMX\_MFP\_GroupID\_List\_t GroupIDList, out SMX\_MFP\_GroupSettings\_List\_t GroupSettingsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Gets the list of statmux group settings.*
- void [DCM::DeviceControl::SMX\\_MFP\\_GroupChange](#) (in unsigned short BoardNr, in SMX\_MFP\_GroupSettings\_List\_t GroupList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Change the settings of statmux group(s).*
- void [DCM::DeviceControl::SMX\\_MFP\\_GroupDelete](#) (in unsigned short BoardNr, in SMX\_MFP\_GroupID\_List\_t GroupIDList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Delete statmux group(s).*
- void [DCM::DeviceControl::SMX\\_MFP\\_TSAdd](#) (in unsigned short BoardNr, in SMX\_MFP\_Group\_TSSettings\_List\_t GroupTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Add complete mux output transport stream(s) to statmux group(s).*
- void [DCM::DeviceControl::SMX\\_MFP\\_TSGet](#) (in unsigned short BoardNr, in SMX\_MFP\_GroupID\_List\_t GroupIDList, out SMX\_MFP\_Group\_TSSettings\_List\_t GroupTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Gets a list of TSs settings that are part of the statmux group(s).*
- void [DCM::DeviceControl::SMX\\_MFP\\_TSChange](#) (in unsigned short BoardNr, in SMX\_MFP\_Group\_TSSettings\_List\_t GroupTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Change a list of TSs settings that are part of the statmux group(s).*
- void [DCM::DeviceControl::SMX\\_MFP\\_TSDelete](#) (in unsigned short BoardNr, in SMX\_MFP\_Group\_TS\_List\_t GroupTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Delete TS(s) from statmux group(s).*
- void [DCM::DeviceControl::SMX\\_MFP\\_SvcSettingGet](#) (in unsigned short BoardNr, in SMX\_MFP\_GroupID\_List\_t GroupIDList, out SMX\_MFP\_Group\_SvcSettings\_List\_t GroupSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Retrieve the Service settings from a group.*
- void [DCM::DeviceControl::SMX\\_MFP\\_SvcSettingGet\\_V2](#) (in unsigned short BoardNr, in SMX\_MFP\_GroupID\_List\_t GroupIDList, out SMX\_MFP\_Group\_SvcSettings\_V2\_List\_t GroupSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Retrieve the Service settings from a group.*

- void [DCM::DeviceControl::SMX\\_MFP\\_SvcSettingChange](#) (in unsigned short BoardNr, in SMX\_MFP\_Group\_SvcSettings\_List\_t GroupSvcList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Update the Service settings from a group.*

- void [DCM::DeviceControl::SMX\\_MFP\\_SvcSettingChange\\_V2](#) (in unsigned short BoardNr, in SMX\_MFP\_Group\_SvcSettings\_V2\_List\_t GroupSvcList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Update the Service settings from a group.*

- void [DCM::DeviceControl::SMX\\_MFP\\_ServiceAdd](#) (in unsigned short BoardNr, in SMX\_MFP\_Group\_Svc\_List\_t GroupServiceList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Add services to a SingleTS\_SelectedSvc statmux group.*

- void [DCM::DeviceControl::SMX\\_MFP\\_ServiceGet](#) (in unsigned short BoardNr, in SMX\_MFP\_GroupID\_List\_t GroupIDList, out SMX\_MFP\_Group\_Svc\_List\_t GroupServiceList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the list of services added explicitly (eSMX\_MFP\_SingleTS\_SelectedSvc group)*

- void [DCM::DeviceControl::SMX\\_MFP\\_ServiceDelete](#) (in unsigned short BoardNr, in SMX\_MFP\_Group\_Svc\_List\_t GroupServiceList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete a sequence of service that were previously added to statmux group(s).*

## Variables

- const unsigned long [DCM::DeviceControl::SMX\\_MFP\\_MIN\\_GROUP\\_ID](#) = 10000  
*GroupIDs for MFP Statmuxing uses between 10000 and 19999.*
- const unsigned long [DCM::DeviceControl::SMX\\_MFP\\_MAX\\_GROUP\\_ID](#) = 19999

### 8.26.1 Detailed Description

This contains specific types, enums and methods for controlling the MFP Statmuxing.

## Remarks

This follows pretty close the transrater statmux group management. The SMX\_MFP prefix is used in all related calls.

### 8.26.2 Typedef Documentation

#### 8.26.2.1 typedef sequence<SMX\_MFP\_Group\_Svc\_t> DCM::DeviceControl::SMX\_MFP\_Group\_Svc\_List\_t

A sequence of [SMX\\_MFP\\_Group\\_Svc\\_t](#).

Definition at line 16299 of file DCM.idl.

#### 8.26.2.2 typedef sequence<SMX\_MFP\_Group\_SvcSettings\_t> DCM::DeviceControl::SMX\_MFP\_Group\_SvcSettings\_List\_t

A sequence of [SMX\\_MFP\\_Group\\_SvcSettings\\_t](#).

Definition at line 16277 of file DCM.idl.

**8.26.2.3** `typedef sequence<SMX_MFP_Group_SvcSettings_V2_t> DCM::DeviceControl::SMX_MFP_Group_SvcSettings_V2_List_t`

A sequence of [SMX\\_MFP\\_Group\\_SvcSettings\\_V2\\_t](#).

Definition at line 16288 of file DCM.idl.

**8.26.2.4** `typedef sequence<SMX_MFP_Group_TSs_t> DCM::DeviceControl::SMX_MFP_Group_TS_List_t`

A sequence of [SMX\\_MFP\\_Group\\_TSs\\_t](#).

Definition at line 16206 of file DCM.idl.

**8.26.2.5** `typedef sequence<SMX_MFP_Group_TSSettings_t> DCM::DeviceControl::SMX_MFP_Group_TSSettings_List_t`

A sequence of [SMX\\_MFP\\_Group\\_TSSettings\\_t](#).

Definition at line 16197 of file DCM.idl.

**8.26.2.6** `typedef sequence<unsigned long> DCM::DeviceControl::SMX_MFP_GroupID_List_t`

list of group ids.

Definition at line 16170 of file DCM.idl.

**8.26.2.7** `typedef sequence<SMX_MFP_GroupSettings_t> DCM::DeviceControl::SMX_MFP_GroupSettings_List_t`

A sequence of Statmux group settings.

Definition at line 16169 of file DCM.idl.

**8.26.2.8** `typedef sequence<SMX_MFP_SvcSettings_t> DCM::DeviceControl::SMX_MFP_SvcSettings_List_t`

A sequence of Statmux services.

Definition at line 16238 of file DCM.idl.

**8.26.2.9** `typedef sequence<SMX_MFP_SvcSettings_V2_t> DCM::DeviceControl::SMX_MFP_SvcSettings_V2_List_t`

A sequence of Statmux services.

Definition at line 16264 of file DCM.idl.

**8.26.2.10** `typedef sequence<SMX_MFP_TsSettings_t> DCM::DeviceControl::SMX_MFP_TsSettings_List_t`

A sequence of Statmux Transport Stream settings.

Definition at line 16183 of file DCM.idl.

**8.26.3** Enumeration Type Documentation

## 8.26.3.1 enum DCM::DeviceControl::eSMX\_MFP\_GroupType\_t

Statmux group type.

Depending on the type of the statmux group, behavior will be different;

- MultiTS : such a SMXGroup will be located at output port level. Thus of SMX\_MFP\_GroupSettings\_t.Location.Ref will be 0xFFFFFFFF (only PhysRef of the Location will be used). In such group multiple TS can be added as long these output TS are located at the same port (aka their IPS\_Ref\_t is the same as the IPS\_Ref\_t in the SMX\_MFP\_GroupSettings\_t.Location).
- SingleTS\_AllSvc : such a group will be located at TS level. Thus the SMX\_MFP\_GroupSettings\_t.Location will be a TS. In such group all services of the TS are automatically member of the statmux group.
- SingleTS\_SelectedSvc : such a group will be located at TS level. Thus the SMX\_MFP\_GroupSettings\_t.Location will be a TS. In such group services of the TS are NOT automatically member of the statmux group, so they have to be added manually.

Enumerator:

*eSMX\_MFP\_MultiTS* SMX group that can contain multiple TS from a Port.

*eSMX\_MFP\_SingleTS\_AllSvc* SMX group that can contain only one TS, for which all Services are statmuxed.

*eSMX\_MFP\_SingleTS\_SelectedSvc* SMX group that can contain selective services from one TS.

*eSMX\_MFP\_GT\_Reserved\_3*

*eSMX\_MFP\_GT\_Reserved\_4*

*eSMX\_MFP\_GT\_Reserved\_5*

*eSMX\_MFP\_GT\_Reserved\_6*

*eSMX\_MFP\_GT\_Reserved\_7*

*eSMX\_MFP\_GT\_Reserved\_8*

*eSMX\_MFP\_GT\_Reserved\_9*

*eSMX\_MFP\_GT\_Reserved\_10*

*eSMX\_MFP\_GT\_Reserved\_11*

*eSMX\_MFP\_GT\_Reserved\_12*

*eSMX\_MFP\_GT\_Reserved\_13*

*eSMX\_MFP\_GT\_Reserved\_14*

*eSMX\_MFP\_GT\_Reserved\_15*

Definition at line 16028 of file DCM.idl.

## 8.26.3.2 enum DCM::DeviceControl::eSMX\_MFP\_PassThroughMode

The PassThrough mode of a service.

If a service is in PassThrough, it is possible to enable Measuring of its bitrate (taking it automatically into account in the statmux group rate). If not enabled, the bitrate should manually be set using reserved bitrate of the statmux group.

Enumerator:

*eSMX\_MFP\_PassThroughMode\_Measured* Measure the bitrate and take it automatically into account in the group rate.

*eSMX\_MFP\_PassThroughMode\_UnMeasured* Not measured: manually set reserved bitrate.  
*eSMX\_MFP\_PassThroughMode\_Reserved\_2*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_3*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_4*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_5*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_6*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_7*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_8*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_9*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_10*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_11*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_12*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_13*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_14*  
*eSMX\_MFP\_PassThroughMode\_Reserved\_15*

Definition at line 16118 of file DCM.idl.

### 8.26.3.3 enum DCM::DeviceControl::eSMX\_MFP\_SvcMode

The Statmux mode of a service.

This is a setting, which is only configurable for encoders being in the eSMX\_MFP\_SvcState\_StatMux state (aka they are not in CBR/Cap-VBR/.. states) Only the one service belonging to a SPTS can be put in rate limit mode.

Enumerator:

*eSMX\_MFP\_SvcMode\_StatMux* The service is Statmuxed by the SMX group.  
*eSMX\_MFP\_SvcMode\_RateLimit* The service is used in rate limited mode.  
*eSMX\_MFP\_SvcMode\_Reserved\_2*  
*eSMX\_MFP\_SvcMode\_Reserved\_3*  
*eSMX\_MFP\_SvcMode\_Reserved\_4*  
*eSMX\_MFP\_SvcMode\_Reserved\_5*  
*eSMX\_MFP\_SvcMode\_Reserved\_6*  
*eSMX\_MFP\_SvcMode\_Reserved\_7*  
*eSMX\_MFP\_SvcMode\_Reserved\_8*  
*eSMX\_MFP\_SvcMode\_Reserved\_9*  
*eSMX\_MFP\_SvcMode\_Reserved\_10*  
*eSMX\_MFP\_SvcMode\_Reserved\_11*  
*eSMX\_MFP\_SvcMode\_Reserved\_12*  
*eSMX\_MFP\_SvcMode\_Reserved\_13*  
*eSMX\_MFP\_SvcMode\_Reserved\_14*  
*eSMX\_MFP\_SvcMode\_Reserved\_15*

Definition at line 16088 of file DCM.idl.

## 8.26.3.4 enum DCM::DeviceControl::eSMX\_MFP\_SvcState

The mode of a service.

This is a status, which is read-only. It cannot be adapted by MFP Statmux related calls. It is a property of an MFP encoder and can only be changed by MFP IIOP calls.

## Enumerator:

- eSMX\_MFP\_SvcState\_StatMux* The encoder is running in Statmux mode.
- eSMX\_MFP\_SvcState\_PassThrough* The encoder is running in pass-through mode, not measured.
- eSMX\_MFP\_SvcState\_CBR* The encoder is running in CBR mode.
- eSMX\_MFP\_SvcState\_CappedVBR* The encoder is running in C-VBR mode.
- eSMX\_MFP\_SvcState\_PassThroughMeasurable* The encoder is running in pass-through mode and can be measured (bitrate taken into account if PassThroughMode is eSMX\_MFP\_PassThroughMode\_Measured).
- eSMX\_MFP\_SvcState\_Reserved\_5*
- eSMX\_MFP\_SvcState\_Reserved\_6*
- eSMX\_MFP\_SvcState\_Reserved\_7*
- eSMX\_MFP\_SvcState\_Reserved\_8*
- eSMX\_MFP\_SvcState\_Reserved\_9*
- eSMX\_MFP\_SvcState\_Reserved\_10*
- eSMX\_MFP\_SvcState\_Reserved\_11*
- eSMX\_MFP\_SvcState\_Reserved\_12*
- eSMX\_MFP\_SvcState\_Reserved\_13*
- eSMX\_MFP\_SvcState\_Reserved\_14*
- eSMX\_MFP\_SvcState\_Reserved\_15*

Definition at line 16057 of file DCM.idl.

## 8.26.4 Function Documentation

**8.26.4.1** void DCM::DeviceControl::SMX\_MFP\_GroupChange ( in unsigned short *BoardNr*, in SMX\_MFP\_GroupSettings\_List\_t *GroupList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Change the settings of statmux group(s).

## Parameters

|    |                  |                                                                                                                                                  |
|----|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>BoardNr</i>   | The slot (board) to apply the call on.                                                                                                           |
| in | <i>GroupList</i> | A sequence of <a href="#">SMX_MFP_GroupSettings_t</a> objects <ul style="list-style-type: none"> <li>• Group ID is used as reference.</li> </ul> |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• if the group ID is invalid</li> <li>• if trying to change the group type (read-only parameter)</li> <li>• if trying to change the location (write once on creation)</li> <li>• if group bitrate is out of range</li> <li>• if name is too long.</li> </ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                              |

**Version**

Release 10.0.5

**8.26.4.2** void DCM::DeviceControl::SMX\_MFP\_GroupCreate ( in unsigned short *BoardNr*, in SMX\_MFP\_GroupSettings\_List\_t *GroupSettingsList*, out SMX\_MFP\_GroupID\_List\_t *CreatedGroupIDs* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Request to create a list of statmux groups.

Group IDs are assigned and managed by the IO Board, they are read-only and content set by the caller is ignored.

**Parameters**

|     |                           |                                                                               |
|-----|---------------------------|-------------------------------------------------------------------------------|
| in  | <i>BoardNr</i>            | The slot (board) to apply the call on.                                        |
| in  | <i>GroupSettings-List</i> | A sequence of <a href="#">SMX_MFP_GroupSettings_t</a> objects - ID is ignored |
| out | <i>CreatedGroup-IDs</i>   | the assigned group IDs (same order as the GroupSettingsList input)            |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• trying to create a MultiTS group on an ASI board, this is not allowed; By definition ASI has only one TS available, so there is no need for a multiTS</li> <li>• trying to create a group with an invalid group type;</li> <li>• trying to create a group with a TS reference for an output TS that is already a part of a SMX group (TS can be only part of a SingeTS_AllSvc group or if it is a SPTS it can also be part of a MultiTS group);</li> <li>• trying to create a group with a bitrate higher than the output bitrate of the location;</li> <li>• trying to create a group if there are no more groups available (out-of-resources);</li> <li>• if group bitrate is out of range.</li> <li>• if name is too long.</li> <li>• if Group_Settings.location does not match BoardNr parameter of call.</li> </ul> |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                |                                                      |
|----------------|------------------------------------------------------|
| <i>TimeOut</i> | Is thrown when it takes too long to handle the call. |
|----------------|------------------------------------------------------|

### Version

Release 10.0.5

**8.26.4.3** void DCM::DeviceControl::SMX\_MFP\_GroupDelete ( in unsigned short *BoardNr*, in SMX\_MFP\_GroupID\_List\_t *GroupIDList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Delete statmux group(s).

Deleting a group means what it says: every member (TS or Svc) of the group is also removed.

### Parameters

|    |                    |                                                                 |
|----|--------------------|-----------------------------------------------------------------|
| in | <i>BoardNr</i>     | The slot(board) to apply the call on.                           |
| in | <i>GroupIDList</i> | A sequence of group IDs for the groups that have to be deleted. |

### Exceptions

|                        |                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• if group ID is invalid.</li> </ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                      |

### Version

Release 10.0.5

**8.26.4.4** void DCM::DeviceControl::SMX\_MFP\_GroupGet ( in IPS\_RefTS\_t *RefTs*, in SMX\_MFP\_GroupID\_List\_t *GroupIDList*, out SMX\_MFP\_GroupSettings\_List\_t *GroupSettingsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets the list of statmux group settings.

It is possible to get the whole list if an empty RefTS list is passed Refs parameter.

### Remarks

Both the RefTs as the GroupIDList are used as filter. If the GroupIDList is empty, then the RefPhys is used as filter for the SMX groups to retrieve:

- if only board set (thus port is REF\_ALL): all Groups on board
- if only board/port set: all Groups located on this port
- if board/port/TS is set: all Groups located on this TS If the GroupIDList is not empty, these groups are retrieved and checked against the RefTs (which should fit the location as defined in the three cases above).

**Parameters**

|     |                           |                                                                                                        |
|-----|---------------------------|--------------------------------------------------------------------------------------------------------|
| in  | <i>RefTs</i>              | The slot(board)/port/TS to retrieve the groups from (filter criterium)                                 |
| in  | <i>GroupIDList</i>        | A SMX_MFP_GroupID_List_t list of group IDs. This can be an empty list (in which case all are returned) |
| out | <i>GroupSettings-List</i> | list of retrieved settings                                                                             |

**Exceptions**

|                        |                                                                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>• if RefTs is not valid.</li> <li>• if an invalid group ID is used.</li> <li>• if the group ID requested its location does not fit with the RefTS filter.</li> </ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                        |

**Version**

Release 10.0.5

**8.26.4.5** void DCM::DeviceControl::SMX\_MFP\_ServiceAdd ( in unsigned short *BoardNr*, in SMX\_MFP\_Group\_Svc\_List\_t *GroupServiceList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Add services to a SingleTS\_SelectedSvc statmux group.

This is only allowed for SingleTS\_SelectedSvc groups.

**Remarks**

To retrieve the services use the [SMX\\_MFP\\_SvcSettingGet\(\)](#) call To change service settings use the [SMX\\_MFP\\_SvcSettingChange\(\)](#) call

**Parameters**

|    |                          |                                                        |
|----|--------------------------|--------------------------------------------------------|
| in | <i>BoardNr</i>           | The slot(board) to apply the call on.                  |
| in | <i>GroupService-List</i> | The sequence of GroupID/services that should be added. |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• if group ID does not exists</li> <li>• if group is not of type eSMX_MFP_SingleTS_SelectedSvc</li> <li>• id service ref does not exist</li> <li>• if the statmux group is not of the correct type,</li> <li>• if the service is already part of the group</li> </ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                       |

**Version**

Release 10.0.5

**8.26.4.6** void DCM::DeviceControl::SMX\_MFP\_ServiceDelete ( in unsigned short *BoardNr*, in SMX\_MFP\_Group\_Svc\_List\_t *GroupServiceList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Delete a sequence of service that were previously added to statmux group(s).

This will only be allowed for eSMX\_MFP\_SingleTS\_SelectedSvc groups, i.e. for services that were added explicitly.

**Parameters**

|    |                          |                                                                         |
|----|--------------------------|-------------------------------------------------------------------------|
| in | <i>BoardNr</i>           | The slot(board) to apply the call on.                                   |
| in | <i>GroupService-List</i> | The sequence of group ID(s) - service relations that need to be removed |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• if group ID does not exists</li> <li>• if the statmux group is not of the eSMX_MFP_SingleTS_SelectedSvc type</li> <li>• if a service is not part of the group</li> </ul> |
| <i>Timeout</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                            |

**Version**

Release 10.0.5

**8.26.4.7** void DCM::DeviceControl::SMX\_MFP\_ServiceGet ( in unsigned short *BoardNr*, in SMX\_MFP\_GroupID\_List\_t *GroupIDList*, out SMX\_MFP\_Group\_Svc\_List\_t *GroupServiceList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets the list of services added explicitly (eSMX\_MFP\_SingleTS\_SelectedSvc group)

This will return all services explicitly added to a group

**Parameters**

|     |                          |                                                           |
|-----|--------------------------|-----------------------------------------------------------|
| in  | <i>BoardNr</i>           | The slot(board) to apply the call on.                     |
| in  | <i>GroupIDList</i>       | The sequence of group IDs the services are requested for. |
| out | <i>GroupService-List</i> | Svc members from these groups                             |

**Exceptions**

|                        |                                                                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• if an invalid group ID is used.</li> <li>• if group is not of type eSMX_MFP_SingleTS_SelectedSvc</li> </ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                    |

**Version**

Release 10.0.5

**8.26.4.8** void DCM::DeviceControl::SMX\_MFP\_SvcSettingChange ( in unsigned short *BoardNr*, in SMX\_MFP\_Group\_SvcSettings\_List\_t *GroupSvcList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Update the Service settings from a group.

Remark that the SvcAdd (as supported on SingleTS\_Selected Svc) does not set Svc settings (min/max bitrate, prioritys, ...). These can only be retrieved and set by using the SMX\_MFP\_SvcSettingsGet/Set calls.

**Remarks**

In case the sSMX\_MFP\_SvcState is not Statmux, then the sSMX\_MFP\_SvcMode set is ignored.

**Parameters**

|    |                     |                                         |
|----|---------------------|-----------------------------------------|
| in | <i>BoardNr</i>      | The slot(board) to apply the call on.   |
| in | <i>GroupSvcList</i> | Svc members and settings to be changed. |

**Exceptions**

|                        |                                                                                                                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• if a group ID does not exist</li> <li>• if MinBitrate out of range</li> <li>• if MaxBitrate out of range</li> <li>• if priority out of range</li> </ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                           |

**Version**

Release 10.0.5

**8.26.4.9** void DCM::DeviceControl::SMX\_MFP\_SvcSettingChange\_V2 ( in unsigned short *BoardNr*, in SMX\_MFP\_Group\_SvcSettings\_V2\_List\_t *GroupSvcList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Update the Service settings from a group.

See also

[SMX\\_MFP\\_SvcSettingChange\(\)](#).

This version adds the measured pass-through services feature.

#### Parameters

|    |                     |                                         |
|----|---------------------|-----------------------------------------|
| in | <i>BoardNr</i>      | The slot(board) to apply the call on.   |
| in | <i>GroupSvcList</i> | Svc members and settings to be changed. |

#### Exceptions

|                        |                                                                                                                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• if a group ID does not exist</li> <li>• if MinBitrate out of range</li> <li>• if MaxBitrate out of range</li> <li>• if priority out of range</li> </ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                           |

#### Version

Release 11.10

**8.26.4.10** void DCM::DeviceControl::SMX\_MFP\_SvcSettingGet ( in unsigned short *BoardNr*, in SMX\_MFP\_GroupID\_List\_t *GroupIDList*, out SMX\_MFP\_Group\_SvcSettings\_List\_t *GroupSvcList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Retrieve the Service settings from a group.

This will return settings from all services belonging to a group, also the implicit ones in the case of MultiTS and SingleTS\_AllSvc groups (where you cannot add services explicitly). For SingleTS\_SelectedSvc groups the settings of the explicitly added services will be retrieved. Remark that the SvcAdd (as supported on SingleTS\_Selected Svc) does not set Svc settings (min/max bitrate, priorities, ...). These can only be retrieved and set by using the SMX\_MFP\_SvcSettingsGet/Change calls.

#### Parameters

|     |                     |                                                                   |
|-----|---------------------|-------------------------------------------------------------------|
| in  | <i>BoardNr</i>      | The slot(board) to apply the call on.                             |
| in  | <i>GroupIDList</i>  | The sequence of group IDs the service settings are requested for. |
| out | <i>GroupSvcList</i> | Svc members and settings from these groups                        |

#### Exceptions

|                        |                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• if a group ID does not exist</li> </ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                           |

**Version**

Release 10.0.5

**8.26.4.11** void DCM::DeviceControl::SMX\_MFP\_SvcSettingGet\_V2 ( in unsigned short *BoardNr*, in SMX\_MFP\_GroupID\_List\_t *GroupIDList*, out SMX\_MFP\_Group\_SvcSettings\_V2\_List\_t *GroupSvcList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Retrieve the Service settings from a group.

**See also**

[SMX\\_MFP\\_SvcSettingGet\(\)](#).

This version add the possibility to enable measuring of PassThrough services.

**Parameters**

|     |                     |                                                                   |
|-----|---------------------|-------------------------------------------------------------------|
| in  | <i>BoardNr</i>      | The slot(board) to apply the call on.                             |
| in  | <i>GroupIDList</i>  | The sequence of group IDs the service settings are requested for. |
| out | <i>GroupSvcList</i> | Svc members and settings from these groups                        |

**Exceptions**

|                        |                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• if a group ID does not exist</li> </ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                           |

**Version**

Release 11.10

**8.26.4.12** void DCM::DeviceControl::SMX\_MFP\_TSAdd ( in unsigned short *BoardNr*, in SMX\_MFP\_Group\_TSSettings\_List\_t *GroupTSList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Add complete mux output transport stream(s) to statmux group(s).

This can only be done for statmux groups of type MultiTS or SingleTS\_AllSvc. For groups of type SingleTS\_SelectedSvc it is not possible to add TS (in this case services have to be added instead).

TS added to the group by this call will automatically add all their services to the group. When services are added/removed while a TS is member of a group then these services will automatically be added/removed to/from the group.

**Parameters**

|    |                    |                                                                             |
|----|--------------------|-----------------------------------------------------------------------------|
| in | <i>BoardNr</i>     | The slot(board) to apply the call on.                                       |
| in | <i>GroupTSList</i> | A sequence of statmux group ids / transport stream(s) that should be added. |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• if group ID does not exists</li> <li>• if transport stream does not exist</li> <li>• if the transport stream is already part of a group or this group</li> <li>• if trying to add more than one TS to a SingleTS_AllSvc group</li> <li>• if trying to add a TS to a SingleTS_SelectedSvc group</li> <li>• if trying to add a MPTS to a MultiTS group (in this case only SPTS are allowed)</li> <li>• if there are not enough internal resources anymore to add the TS to a group</li> <li>• if the reserved bitrate of the TS is set out of range</li> </ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Version**

Release 10.0.5

**8.26.4.13** void DCM::DeviceControl::SMX\_MFP\_TSChange ( in unsigned short *BoardNr*, in SMX\_MFP\_Group\_TSSettings\_List\_t *GroupTSList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Change a list of TSs settings that are part of the statmux group(s).

As no TS can be added on SingleTS\_SelectedSvc groups, this call cannot be issued on such groups.

**Parameters**

|     |                    |                                          |
|-----|--------------------|------------------------------------------|
| in  | <i>BoardNr</i>     | The slot(board) to apply the call on.    |
| out | <i>GroupTSList</i> | TS members of the(se) group(s) to update |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• if a group ID does not exist.</li> <li>• if a TS ref is not member of the group.</li> <li>• if a group is of Type eSMX_SingleTS_SelectedSvc</li> <li>• if reserved bitrate is set out of range</li> </ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                                                  |

**Version**

Release 10.0.5

**8.26.4.14** void DCM::DeviceControl::SMX\_MFP\_TSDelete ( in unsigned short *BoardNr*, in SMX\_MFP\_Group\_TS\_List\_t *GroupTSList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Delete TS(s) from statmux group(s).

This means that every single pid from every TS specified is removed from the group.

This can not be done on groups of type eSMX\_SingleTS\_SelectedSvc. Remark that only the TS ref are used in the list to identify which TS to remove. ==> TBC: maybe it is better to pass only sequence of TSRef?

**Parameters**

|    |                    |                                                                                     |
|----|--------------------|-------------------------------------------------------------------------------------|
| in | <i>BoardNr</i>     | The slot(board) to apply the call on.                                               |
| in | <i>GroupTSList</i> | The sequence of group ID(s) - transport stream(s) relations that should be deleted. |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown: <ul style="list-style-type: none"> <li>• if BoardNr is not valid</li> <li>• if a group ID does not exist.</li> <li>• if a TS Ref does not belong to the group where it should be deleted from</li> <li>• if a group if of type eSMX_SingleTS_SelectedSvc</li> </ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                                                                                           |

**Version**

Release 10.0.5

**8.26.4.15** void DCM::DeviceControl::SMX\_MFP\_TSGet ( in unsigned short *BoardNr*, in SMX\_MFP\_GroupID\_List\_t *GroupIDList*, out SMX\_MFP\_Group\_TSSettings\_List\_t *GroupTSList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets a list of TSs settings that are part of the statmux group(s).

As no TS can be added on SingleTS\_SelectedSvc groups, this call cannot be issued on such groups.

**Parameters**

|     |                    |                                                                    |
|-----|--------------------|--------------------------------------------------------------------|
| in  | <i>BoardNr</i>     | The slot(board) to apply the call on.                              |
| in  | <i>GroupIDList</i> | The sequence of group IDs the transport streams are requested for. |
| out | <i>GroupTSList</i> | TS members and settings of the(se) group(s)                        |



**Exceptions**

|                        |                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | Is thrown: <ul style="list-style-type: none"><li>• if BoardNr is not valid</li><li>• if a group ID does not exist</li><li>• if this is requested for a group which is of type SingleTS_SelectedSvc.</li></ul> |
| <i>TimeOut</i>         | Is thrown when it takes too long to handle the call.                                                                                                                                                          |

**Version**

Release 10.0.5

**8.26.5 Variable Documentation****8.26.5.1 const unsigned long DCM::DeviceControl::SMX\_MFP\_MAX\_GROUP\_ID = 19999**

Definition at line 16145 of file DCM.idl.

**8.26.5.2 const unsigned long DCM::DeviceControl::SMX\_MFP\_MIN\_GROUP\_ID = 10000**

GroupIDs for MFP Statmuxing uses between 10000 and 19999.

Statmux groups made on Transrater stay with their ID below 10000.

Definition at line 16144 of file DCM.idl.

## 8.27 PID Sync

This contains types, enums and methods to control PID Sync.

### Classes

- struct [DCM::DeviceControl::IPS\\_OutPID\\_Sync\\_t](#)
- struct [DCM::DeviceControl::IPS\\_OutServiceSync\\_t](#)
- struct [DCM::DeviceControl::IPS\\_OutPID\\_Sync\\_V2\\_t](#)
- struct [DCM::DeviceControl::IPS\\_OutServiceSync\\_V2\\_t](#)

### Typedefs

- typedef sequence < [IPS\\_OutPID\\_Sync\\_t](#) > [DCM::DeviceControl::IPS\\_OutPID\\_SyncList\\_t](#)
- typedef sequence < [IPS\\_OutServiceSync\\_t](#) > [DCM::DeviceControl::IPS\\_OutServiceSyncList\\_t](#)
- typedef sequence < [IPS\\_OutPID\\_Sync\\_V2\\_t](#) > [DCM::DeviceControl::IPS\\_OutPID\\_SyncList\\_V2\\_t](#)
- typedef sequence < [IPS\\_OutServiceSync\\_V2\\_t](#) > [DCM::DeviceControl::IPS\\_OutServiceSyncList\\_V2\\_t](#)

### Functions

- void [DCM::DeviceControl::IPS\\_OutServiceGetSyncL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutSidList, out [IPS\\_OutServiceSyncList\\_t](#) SyncList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the PID sync settings.*
- void [DCM::DeviceControl::IPS\\_OutServiceGetSyncL\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutSidList, out [IPS\\_OutServiceSyncList\\_V2\\_t](#) SyncList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the PID sync settings.*
- void [DCM::DeviceControl::IPS\\_OutServiceSetSyncL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [IPS\\_OutServiceSyncList\\_t](#) SyncList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Set the PID sync settings.*
- void [DCM::DeviceControl::IPS\\_OutServiceSetSyncL\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [IPS\\_OutServiceSyncList\\_V2\\_t](#) SyncList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Set the PID sync settings.*

#### 8.27.1 Detailed Description

This contains types, enums and methods to control PID Sync.

#### 8.27.2 Typedef Documentation

##### 8.27.2.1 typedef sequence<[IPS\\_OutPID\\_Sync\\_t](#)> [DCM::DeviceControl::IPS\\_OutPID\\_SyncList\\_t](#)

Definition at line 16682 of file DCM.idl.

**8.27.2.2** typedef sequence<IPS\_OutPID\_Sync\_V2\_t> DCM::DeviceControl::IPS\_OutPID\_SyncList\_V2\_t

Definition at line 16698 of file DCM.idl.

**8.27.2.3** typedef sequence<IPS\_OutServiceSync\_t> DCM::DeviceControl::IPS\_OutServiceSyncList\_t

Definition at line 16690 of file DCM.idl.

**8.27.2.4** typedef sequence<IPS\_OutServiceSync\_V2\_t> DCM::DeviceControl::IPS\_OutServiceSyncList\_V2\_t

Definition at line 16706 of file DCM.idl.

### 8.27.3 Function Documentation

**8.27.3.1** void DCM::DeviceControl::IPS\_OutServiceGetSyncL ( in IPS\_RefTS\_t *RefTS*, in ServiceIdList\_t *OutSidList*, out IPS\_OutServiceSyncList\_t *SyncList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the PID sync settings.

#### Parameters

|     |                   |                                                              |
|-----|-------------------|--------------------------------------------------------------|
| in  | <i>RefTS</i>      | The TS for which to get the sync settings.                   |
| in  | <i>OutSidList</i> | The SIDs of the services for which to retrieve the settings. |
| out | <i>SyncList</i>   | A list of PID sync settings.                                 |

#### Exceptions

|                       |                                                                                                                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main.                                                                                                                                                                                                                      |
| <i>OpNotSucceeded</i> | In case: <ul style="list-style-type: none"> <li>invalid input references are used (RefTS, OutService).</li> <li>a negative delay value was set using the newer version of the set call and this call is used to readout the value.</li> </ul> |

#### Version

Supported since release 6.0

**8.27.3.2** void DCM::DeviceControl::IPS\_OutServiceGetSyncL\_V2 ( in IPS\_RefTS\_t *RefTS*, in ServiceIdList\_t *OutSidList*, out IPS\_OutServiceSyncList\_V2\_t *SyncList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the PID sync settings.

#### Parameters

|     |                   |                                                              |
|-----|-------------------|--------------------------------------------------------------|
| in  | <i>RefTS</i>      | The TS for which to get the sync settings.                   |
| in  | <i>OutSidList</i> | The SIDs of the services for which to retrieve the settings. |
| out | <i>SyncList</i>   | A list of PID sync settings.                                 |

**Exceptions**

|                       |                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main.                                                                                          |
| <i>OpNotSucceeded</i> | In case: <ul style="list-style-type: none"> <li>invalid input references are used (RefTS, OutService).</li> </ul> |

**Version**

Supported since release 8.1

**8.27.3.3** void DCM::DeviceControl::IPS\_OutServiceSetSyncL ( in IPS\_RefTS\_t *RefTS*, in IPS\_OutServiceSyncList\_t *SyncList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the PID sync settings.

**Parameters**

|    |                 |                                                |
|----|-----------------|------------------------------------------------|
| in | <i>RefTS</i>    | The TS for which to set the PID sync settings. |
| in | <i>SyncList</i> | The PID sync settings                          |

**Exceptions**

|                       |                                                                                                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main.                                                                                                                                                                                                                                      |
| <i>OpNotSucceeded</i> | In case: <ul style="list-style-type: none"> <li>invalid input references are used (RefTS, OutService).</li> <li>the delay value is too large (&gt; 10s).</li> <li>the service is part of a transrating group</li> <li>the service has DPI settings</li> </ul> |
| <i>LicenseError</i>   | if there are insufficient PID Sync licenses to complete the request.                                                                                                                                                                                          |

**Version**

Supported since release 6.0

**Note**

- : If a service is not listed in the SyncList it will not be changed.
- : Existing [IPS\\_OutPID\\_Sync\\_t](#) entries are removed if a new [IPS\\_OutServiceSync\\_t](#) is set.

**8.27.3.4** void DCM::DeviceControl::IPS\_OutServiceSetSyncL\_V2 ( in IPS\_RefTS\_t *RefTS*, in IPS\_OutServiceSyncList\_V2\_t *SyncList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the PID sync settings.

**Parameters**

|    |                 |                                                |
|----|-----------------|------------------------------------------------|
| in | <i>RefTS</i>    | The TS for which to set the PID sync settings. |
| in | <i>SyncList</i> | The PID sync settings                          |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main.                                                                                                                                                                                                                                                                 |
| <i>OpNotSucceeded</i> | In case: <ul style="list-style-type: none"><li>• invalid input references are used (RefTS, OutService).</li><li>• the delay value is not within the valid range (-1200ms ... 10s).</li><li>• the service is part of a transrating group</li><li>• the service has DPI settings</li></ul> |
| <i>LicenseError</i>   | if there are insufficient PID Sync licenses to complete the request.                                                                                                                                                                                                                     |

**Version**

Supported since release 8.1

**Note**

- : If a service is not listed in the SyncList it will not be changed.
- : Existing [IPS\\_OutPID\\_Sync\\_t](#) entries are removed if a new [IPS\\_OutServiceSync\\_t](#) is set.

## 8.28 Slate Insertion

This contains specific types, enums and methods for controlling the slate insertion part of the device.

### Classes

- struct [DCM::DeviceControl::SlateService\\_t](#)

### Typedefs

- typedef sequence< SlateService\_t > [DCM::DeviceControl::SlateServiceList\\_t](#)

### Functions

- void [DCM::DeviceControl::TR\\_SlateServiceSetL](#) (in IPS\_RefTS\_t RefTS, in SlateServiceList\_t - SlateServiceList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, License-Error)  
*Enable slate insertion.*
- void [DCM::DeviceControl::TR\\_SlateServiceGetL](#) (in IPS\_RefTS\_t RefTS, in ServiceIdList\_t OutputSidList, out SlateServiceList\_t SlateServiceList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get a list of all slate services.*
- void [DCM::DeviceControl::TR\\_SlateServiceDeleteL](#) (in IPS\_RefTS\_t RefTS, in ServiceIdList\_t - OutputSidList) raises (TimeOut, OpNotAllowed, OpNotSupported)  
*Disable slate insertion.*

### 8.28.1 Detailed Description

This contains specific types, enums and methods for controlling the slate insertion part of the device.

### 8.28.2 Typedef Documentation

#### 8.28.2.1 typedef sequence<SlateService\_t> DCM::DeviceControl::SlateServiceList\_t

Definition at line 16800 of file DCM.idl.

### 8.28.3 Function Documentation

#### 8.28.3.1 void DCM::DeviceControl::TR\_SlateServiceDeleteL ( in IPS\_RefTS\_t RefTS, in ServiceIdList\_t OutputSidList ) raises (TimeOut, OpNotAllowed, OpNotSupported)

Disable slate insertion.

### Parameters

|    |                      |                                                   |
|----|----------------------|---------------------------------------------------|
| in | <i>RefTS</i>         | The TS on which to disable slate generation.      |
| in | <i>OutputSidList</i> | The list of services to disable Slate generation. |

**Exceptions**

|                       |                         |
|-----------------------|-------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main |
|-----------------------|-------------------------|

**Version**

Release 7.5

**8.28.3.2** void DCM::DeviceControl::TR\_SlateServiceGetL ( in IPS\_RefTS\_t *RefTS*, in ServiceIdList\_t *OutputSidList*, out SlateServiceList\_t *SlateServiceList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of all slate services.

**Parameters**

|     |                         |                                                                                         |
|-----|-------------------------|-----------------------------------------------------------------------------------------|
| in  | <i>RefTS</i>            | The TS of which to get the slate services.                                              |
| in  | <i>OutputSidList</i>    | A list of Service ID's to get info about. All services if empty.                        |
| out | <i>SlateServiceList</i> | The list of services that have Slate generation enabled with their corresponding ClipID |

**Exceptions**

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main                                                           |
| <i>OpNotSucceeded</i> | When one if the services listed in OutputSidList is not in slate generation mode. |

**Version**

Release 7.5

**8.28.3.3** void DCM::DeviceControl::TR\_SlateServiceSetL ( in IPS\_RefTS\_t *RefTS*, in SlateServiceList\_t *SlateServiceList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Enable slate insertion.

**Parameters**

|    |                         |                                                   |
|----|-------------------------|---------------------------------------------------|
| in | <i>RefTS</i>            | The TS on which to enable the slate generation.   |
| in | <i>SlateServiceList</i> | The list of services to set the slate generation. |

**Exceptions**

|                       |                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main                                                                                                                                                                                   |
| <i>OpNotSucceeded</i> | In case : <ul style="list-style-type: none"> <li>the ClipID doesn't exist</li> <li>the service doesn't exist.</li> <li>The service is in a transrating group / configured for DPI / PID synced</li> </ul> |
| <i>LicenseError</i>   | if there are insufficient Slate generation licenses to complete the request.                                                                                                                              |

Version

Release 7.5



## 8.29 Audio Leveling

This contains specific types, enums and methods for controlling the audio leveling part of the device.

### Classes

- struct [DCM::DeviceControl::TR\\_AudioLevel\\_t](#)
- struct [DCM::DeviceControl::TR\\_ServiceAudioLevel\\_t](#)

### Typedefs

- typedef sequence< TR\_AudioLevel\_t > [DCM::DeviceControl::TR\\_AudioLevelList\\_t](#)
- typedef sequence < TR\_ServiceAudioLevel\_t > [DCM::DeviceControl::TR\\_ServiceAudioLevelList\\_t](#)

### Functions

- void [DCM::DeviceControl::TR\\_AudioLevelGetL](#) (in IPS\_RefTS\_t RefTS, in ServiceIdList\_t OutputSidList, out TR\_ServiceAudioLevelList\_t AudioLevels) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get a list of all audio leveling settings.*
- void [DCM::DeviceControl::TR\\_AudioLevelSetL](#) (in IPS\_RefTS\_t RefTS, in TR\_ServiceAudioLevelList\_t AudioLevels) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Set audio leveling settings.*

#### 8.29.1 Detailed Description

This contains specific types, enums and methods for controlling the audio leveling part of the device.

#### 8.29.2 Typedef Documentation

##### 8.29.2.1 typedef sequence<TR\_AudioLevel\_t> DCM::DeviceControl::TR\_AudioLevelList\_t

Definition at line 16863 of file DCM.idl.

##### 8.29.2.2 typedef sequence<TR\_ServiceAudioLevel\_t> DCM::DeviceControl::TR\_ServiceAudioLevelList\_t

Definition at line 16870 of file DCM.idl.

#### 8.29.3 Function Documentation

##### 8.29.3.1 void DCM::DeviceControl::TR\_AudioLevelGetL ( in IPS\_RefTS\_t RefTS, in ServiceIdList\_t OutputSidList, out TR\_ServiceAudioLevelList\_t AudioLevels ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of all audio leveling settings.

**Parameters**

|     |                      |                                                                  |
|-----|----------------------|------------------------------------------------------------------|
| in  | <i>RefTS</i>         | The TS of which to get the audio leveling settings               |
| in  | <i>OutputSidList</i> | A list of Service ID's to get info about. All services if empty. |
| out | <i>AudioLevels</i>   | The list of audio leveling settings                              |

**Exceptions**

|                       |                         |
|-----------------------|-------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main |
|-----------------------|-------------------------|

**Version**

Release 8.5

**8.29.3.2** void DCM::DeviceControl::TR\_AudioLevelSetL ( in IPS\_RefTS\_t *RefTS*, in TR\_ServiceAudioLevelList\_t *AudioLevels* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set audio leveling settings.

Set an empty list to remove all existing audio leveling settings.

**Parameters**

|    |                    |                                                    |
|----|--------------------|----------------------------------------------------|
| in | <i>RefTS</i>       | The TS of which to get the audio leveling settings |
| in | <i>AudioLevels</i> | The list of new audio leveling settings            |

**Exceptions**

|                       |                         |
|-----------------------|-------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main |
|-----------------------|-------------------------|

**Version**

Release 8.5

## 8.30 Pure TS Delay

This contains specific types, enums and methods for controlling the pure TS delay mode of the device.

### Classes

- struct [DCM::DeviceControl::TR\\_TsDelay\\_t](#)  
*TS Delay settings.*

### Typedefs

- typedef sequence< [TR\\_TsDelay\\_t](#) > [DCM::DeviceControl::TR\\_TsDelay\\_List\\_t](#)

### Functions

- void [DCM::DeviceControl::TR\\_TsDelaySetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_TsDelay\\_List\\_t](#) TsDelayList) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded, OperationFailed)  
*Enable/Disable the TS delay mode of Loophrough TS's.*
- void [DCM::DeviceControl::TR\\_TsDelayGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) TS\_List, out [TR\\_TsDelay\\_List\\_t](#) TsDelayList) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded, OperationFailed)  
*Gets the TS delay mode of Loophrough TS's.*

#### 8.30.1 Detailed Description

This contains specific types, enums and methods for controlling the pure TS delay mode of the device.

#### 8.30.2 Typedef Documentation

##### 8.30.2.1 typedef sequence< [TR\\_TsDelay\\_t](#) > [DCM::DeviceControl::TR\\_TsDelay\\_List\\_t](#)

Definition at line 16915 of file DCM.idl.

#### 8.30.3 Function Documentation

##### 8.30.3.1 void [DCM::DeviceControl::TR\\_TsDelayGetL](#) ( in [IPS\\_Ref\\_t](#) *RefPhys*, in [IPS\\_RefTS\\_List\\_t](#) *TS\_List*, out [TR\\_TsDelay\\_List\\_t](#) *TsDelayList* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded, OperationFailed)

Gets the TS delay mode of Loophrough TS's.

#### Parameters

|     |                    |                                                                                                   |
|-----|--------------------|---------------------------------------------------------------------------------------------------|
| in  | <i>RefPhys</i>     | The slot(board) and port to apply the call on. Port can be 0xFFFF (all ports) or a specific port. |
| in  | <i>TS_List</i>     | List of all Loophrough TS's we want info upon. Empty list means every Loophrough TS on the port.  |
| out | <i>TsDelayList</i> | A sequence of <a href="#">TR_TsDelay_t</a>                                                        |

**Exceptions**

|                        |                                                     |
|------------------------|-----------------------------------------------------|
| <i>TimeOut</i>         | is thrown when it takes too long to handle the call |
| <i>OperationFailed</i> | is thrown when invalid references are passed        |
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main                             |

**Version**

Release 8.9

**8.30.3.2** void DCM::DeviceControl::TR\_TsDelaySetL ( in IPS\_Ref\_t *RefPhys*, in TR\_TsDelay\_List\_t *TsDelayList* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded, OperationFailed)

Enable/Disable the TS delay mode of Loophrough TS's.

**Parameters**

|    |                    |                                               |
|----|--------------------|-----------------------------------------------|
| in | <i>RefPhys</i>     | The slot(board) and port to apply the call on |
| in | <i>TsDelayList</i> | A sequence of <a href="#">TR_TsDelay_t</a>    |

**Exceptions**

|                        |                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>         | is thrown when it takes too long to handle the call                                                                                                                |
| <i>OperationFailed</i> | is thrown <ul style="list-style-type: none"> <li>• when the delay mode of the board is not set to TsDelay</li> <li>• when invalid references are passed</li> </ul> |
| <i>OpNotSupported</i>  | When BoardNr = 0 = Main                                                                                                                                            |

**Version**

Release 8.9

## 8.31 DPI

This contains types, enums and methods to control DPI.

### Classes

- struct `DCM::DeviceControl::DPI_ChannelName_t`  
*A spliceable channel name.*
- struct `DCM::DeviceControl::DPI_ShortChannelStatus_t`
- struct `DCM::DeviceControl::DPI_ChannelSettings_t`
- struct `DCM::DeviceControl::DPI_ChannelSettings2_t`
- struct `DCM::DeviceControl::DPI_ChannelSettings3_t`
- struct `DCM::DeviceControl::DPI_ChannelStatus_t`
- struct `DCM::DeviceControl::DPI_Time_t`  
*UTC since jan 1 1970.*
- struct `DCM::DeviceControl::DPI_CueRequest_t`
- struct `DCM::DeviceControl::DPI_SpliceRequestTime_t`  
*A splice request is supposed to arrive a few seconds in advance of the actual splice time.*
- struct `DCM::DeviceControl::DPI_SpliceRequest_t`
- struct `DCM::DeviceControl::DPI_PidCouple_t`
- struct `DCM::DeviceControl::DPI_PmtSpliceModeSetting_t`  
*Struct to set/get ePMT\_SpliceMode per channel.*
- struct `DCM::DeviceControl::ETV_Primary_Settings_t`
- struct `DCM::DeviceControl::ETV_Insertion_Settings_t`
- struct `DCM::DeviceControl::ETV_ManipulationSettings_t`
- struct `DCM::DeviceControl::ETV_Primary_Settings_V2_t`
- struct `DCM::DeviceControl::ETV_Insertion_Settings_V2_t`
- struct `DCM::DeviceControl::ETV_ManipulationSettings_V2_t`
- struct `DCM::DeviceControl::ETV_ApplicationIdent_t`
- struct `DCM::DeviceControl::ETV_EissFilter_t`
- struct `DCM::DeviceControl::ClearPidBitrates_t`
- struct `DCM::DeviceControl::AddPidsFromSplice_t`
- struct `DCM::DeviceControl::AlternateSource_t`  
*A definition of an alternate source.*
- struct `DCM::DeviceControl::AlternateSourceSettings_t`  
*All the settings concerning alternate sources for one output service.*
- struct `DCM::DeviceControl::Scte35Source_t`
- struct `DCM::DeviceControl::Scte35ToggleOutOfNetwork_t`

### Typedefs

- typedef unsigned long `DCM::DeviceControl::DPI_ModeBitmap_t`  
*DPI mode bitfield, allowing combined DPI modes.*
- typedef sequence < `DPI_ChannelName_t` > `DCM::DeviceControl::DPI_ChannelName_List_t`  
*A sequence of `DPI_ChannelName_t`.*
- typedef sequence < `DPI_ChannelSettings_t` > `DCM::DeviceControl::DPI_ChannelSettings_List_t`  
*A sequence of `DPI_ChannelSettings_t`.*

- typedef sequence < DPI\_ChannelSettings2\_t > DCM::DeviceControl::DPI\_ChannelSettings2\_List\_t  
*A sequence of [DPI\\_ChannelSettings2\\_t](#).*
- typedef sequence < DPI\_ChannelSettings3\_t > DCM::DeviceControl::DPI\_ChannelSettings3\_List\_t  
*A sequence of [DPI\\_ChannelSettings3\\_t](#).*
- typedef sequence < DPI\_ChannelStatus\_t > DCM::DeviceControl::DPI\_ChannelStatus\_List\_t  
*A sequence of [DPI\\_ChannelStatus\\_t](#).*
- typedef sequence < DPI\_PidCouple\_t > DCM::DeviceControl::DPI\_PidCoupleList\_t
- typedef sequence < DPI\_PmtSpliceModeSetting\_t > DCM::DeviceControl::DPI\_PmtSpliceModeSettingList\_t  
*A sequence of [DPI\\_PmtSpliceModeSetting\\_t](#).*
- typedef sequence < ETV\_ManipulationSettings\_t > DCM::DeviceControl::ETV\_ManipulationSettings\_List\_t  
*A sequence of [ETV\\_ManipulationSettings\\_t](#).*
- typedef sequence < ETV\_ManipulationSettings\_V2\_t > DCM::DeviceControl::ETV\_ManipulationSettings\_List\_V2\_t  
*A sequence of [ETV\\_ManipulationSettings\\_V2\\_t](#).*
- typedef sequence < octet > DCM::DeviceControl::AppInstanceId\_t
- typedef sequence < ETV\_ApplicationIdent\_t > DCM::DeviceControl::ETV\_ApplicationIdent\_List\_t
- typedef sequence < ETV\_EissFilter\_t > DCM::DeviceControl::ETV\_EissFilter\_List\_t
- typedef sequence < ClearPidBitrates\_t > DCM::DeviceControl::ClearPidBitratesList\_t  
*A sequence of [ServiceBlockCAInfo\\_t](#) entries.*
- typedef sequence < AddPidsFromSplice\_t > DCM::DeviceControl::AddPidsFromSpliceList\_t  
*A sequence of [ServiceBlockCAInfo\\_t](#) entries.*
- typedef sequence < AlternateSource\_t > DCM::DeviceControl::AlternateSourceList\_t  
*A sequence of [AlternateSource\\_t](#) entries.*
- typedef sequence < Scte35Source\_t > DCM::DeviceControl::Scte35SourceList\_t  
*A sequence of [Scte35Source\\_t](#) entries.*
- typedef sequence < Scte35ToggleOutOfNetwork\_t > DCM::DeviceControl::Scte35ToggleOutOfNetworkList\_t  
*A sequence of [Scte35ToggleOutOfNetwork\\_t](#) entries.*

## Enumerations

- enum DCM::DeviceControl::eDPI\_Mode { DCM::DeviceControl::Off, DCM::DeviceControl::Scte30, DCM::DeviceControl::Scte35, DCM::DeviceControl::Manual, DCM::DeviceControl::Scte35\_Custom, DCM::DeviceControl::Manual\_Custom, DCM::DeviceControl::Scte35\_Inserter }  
*Defines how to splice a channel.*
- enum DCM::DeviceControl::eChannelLicenseStatus { DCM::DeviceControl::ChannelLicenseStatus-Ok, DCM::DeviceControl::ChannelLicenseStatusNoDPILicense }
- enum DCM::DeviceControl::eChannelViewingStatus { DCM::DeviceControl::ChannelViewingStatus-Primary, DCM::DeviceControl::ChannelViewingStatusAd }
- enum DCM::DeviceControl::eSpliceMatchRule { DCM::DeviceControl::Match, DCM::DeviceControl::PassMain }
- enum DCM::DeviceControl::ePmtSpliceMode { DCM::DeviceControl::FollowPrimary, DCM::DeviceControl::Generated }  
*Enum indicating whether PMT should follow main or must be generated during splice.*

- enum `DCM::DeviceControl::eETV_PrimaryChannel_Mode_t` { `DCM::DeviceControl::eMainSvc-BlockETV_Pids`, `DCM::DeviceControl::eMainSvcUsePrimaryServiceETV_Pids`, `DCM::DeviceControl::eMainSvcUseOtherServiceETV_Pids`, `DCM::DeviceControl::eMainSvcUseDummyETV_Pids` }
- enum `DCM::DeviceControl::eETV_InsertionChannel_Mode_t` { `DCM::DeviceControl::eAdSvcUse-InsertionServiceETV_Pids`, `DCM::DeviceControl::eAdSvcUsePrimaryServiceETV_Pids`, `DCM::DeviceControl::eAdSvcUseOtherServiceETV_Pids`, `DCM::DeviceControl::eAdSvcUseDummyETV_Pids` }
- enum `DCM::DeviceControl::eETV_PrimaryChannel_Mode_V2_t` { `DCM::DeviceControl::eMainSvc_V2_BlockETV_Pids`, `DCM::DeviceControl::eMainSvc_V2_UsePrimaryServiceETV_Pids`, `DCM::DeviceControl::eMainSvc_V2_UseOtherServiceETV_Pids`, `DCM::DeviceControl::eMainSvc_V2_UseDummyETV_Pids`, `DCM::DeviceControl::eMainSvc_V2_MergeEISS_Pids`, `DCM::DeviceControl::eMainSvc_V2_Reserved1`, `DCM::DeviceControl::eMainSvc_V2_Reserved2`, `DCM::DeviceControl::eMainSvc_V2_Reserved3`, `DCM::DeviceControl::eMainSvc_V2_Reserved4`, `DCM::DeviceControl::eMainSvc_V2_Reserved5` }
- enum `DCM::DeviceControl::eETV_InsertionChannel_Mode_V2_t` { `DCM::DeviceControl::eAdSvc_V2_UseInsertionServiceETV_Pids`, `DCM::DeviceControl::eAdSvc_V2_UsePrimaryServiceETV_Pids`, `DCM::DeviceControl::eAdSvc_V2_UseOtherServiceETV_Pids`, `DCM::DeviceControl::eAdSvc_V2_UseDummyETV_Pids`, `DCM::DeviceControl::eAdSvc_V2_MergeEISS_Pids`, `DCM::DeviceControl::eAdSvc_V2_Reserved1`, `DCM::DeviceControl::eAdSvc_V2_Reserved2`, `DCM::DeviceControl::eAdSvc_V2_Reserved3`, `DCM::DeviceControl::eAdSvc_V2_Reserved4`, `DCM::DeviceControl::eAdSvc_V2_Reserved5` }
- enum `DCM::DeviceControl::eScte35Source` { `DCM::DeviceControl::eScte35Source_Active`, `DCM::DeviceControl::eScte35Source_Insertion`, `DCM::DeviceControl::eScte35Source_Other` }

## Functions

- void `DCM::DeviceControl::ETV_ManipulationSettings_SetL` (in `IPS_RefTS_t RefTS`, in `ETV_ManipulationSettings_List_t ETV_ManipulationSettings_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Apply ETV Manipulation settings to a number of output services.*
- `ETV_ManipulationSettings_List_t DCM::DeviceControl::ETV_ManipulationSettings_GetL` (in `IPS_RefTS_t RefTS`, in `ServiceIdList_t OutputSidList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get the current settings for ETV Manipulation.*
- void `DCM::DeviceControl::ETV_GetDefaultSettings` (in unsigned short `BoardNbr`, out boolean `ETV_PidsBlocked`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get the default settings for ETV Manipulation.*
- void `DCM::DeviceControl::ETV_SetDefaultSettings` (in unsigned short `BoardNbr`, in boolean `ETV_PidsBlocked`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Set the default settings for ETV Manipulation.*
- void `DCM::DeviceControl::ETV_ManipulationSettings_SetL_V2` (in `IPS_RefTS_t RefTS`, in `ETV_ManipulationSettings_List_V2_t ETV_ManipulationSettings_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Apply ETV Manipulation settings to a number of output services.*
- `ETV_ManipulationSettings_List_V2_t DCM::DeviceControl::ETV_ManipulationSettings_GetL_V2` (in `IPS_RefTS_t RefTS`, in `ServiceIdList_t OutputSidList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get the current settings for ETV Manipulation.*
- void `DCM::DeviceControl::ETV_EissFilter_SetL` (in `IPS_RefTS_t RefTS`, in `ETV_EissFilter_List_t ETV_EissFilter_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Apply ETV EISS filter settings to a number of output services.*

- ETV\_EissFilter\_List\_t [DCM::DeviceControl::ETV\\_EissFilter\\_GetL](#) (in IPS\_RefTS\_t RefTS, in - ServiceIdList\_t OutputSidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the current settings for ETV EISS filters.*

- void [DCM::DeviceControl::DPI\\_SRT\\_Set](#) (in IPS\_Ref\_t RefPhys, in DPI\_SpliceRequestTime\_t - SpliceRequestTime) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Defines the minimum time required between the reception of a splicerequest and the actual splice moment.*

- DPI\_SpliceRequestTime\_t [DCM::DeviceControl::DPI\\_SRT\\_Get](#) (in IPS\_Ref\_t RefPhys) raises (- TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the currently set minimum time required between the reception of a splicerequest and the actual splice moment.*

- void [DCM::DeviceControl::DPI\\_SpliceRequest](#) (in IPS\_Ref\_t RefPhys, in DPI\_SpliceRequest\_t - SpliceRequest) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Trigger a splice request in manual mode for a spliceable channel.*

- void [DCM::DeviceControl::DPI\\_ResetStatistics](#) (in unsigned short SlotNbr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Reset the DPI Scheduler statistics.*

- void [DCM::DeviceControl::DPI\\_ChannelSetL](#) (in IPS\_Ref\_t RefPhys, in DPI\_ChannelSettings\_List\_t ChannelSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add new splice-able channels or change the settings of existing channels.*

- void [DCM::DeviceControl::DPI\\_ChannelSetL2](#) (in IPS\_Ref\_t RefPhys, in DPI\_ChannelSettings2\_List\_t ChannelSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add new splice-able channels or change the settings of existing channels.*

- void [DCM::DeviceControl::DPI\\_ChannelSetL3](#) (in IPS\_Ref\_t RefPhys, in DPI\_ChannelSettings3\_List\_t ChannelSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

*Add new splice-able channels or change the settings of existing channels.*

- DPI\_ChannelSettings\_List\_t [DCM::DeviceControl::DPI\\_ChannelGetL](#) (in IPS\_Ref\_t RefPhys, in - IPS\_RefTS\_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of all splice-able channels which are part of a specific output TS.*

- DPI\_ChannelSettings2\_List\_t [DCM::DeviceControl::DPI\\_ChannelGetL2](#) (in IPS\_Ref\_t RefPhys, in IPS\_RefTS\_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of all splice-able channels which are part of a specific output TS.*

- DPI\_ChannelSettings3\_List\_t [DCM::DeviceControl::DPI\\_ChannelGetL3](#) (in IPS\_Ref\_t RefPhys, in IPS\_RefTS\_t RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of all splice-able channels which are part of a specific output TS.*

- DPI\_ChannelStatus\_List\_t [DCM::DeviceControl::DPI\\_ChannelStatusL](#) (in IPS\_Ref\_t RefPhys, in DPI\_ChannelStatus\_List\_t ChannelStatusList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get current status information of all specified splice-able channels.*

- void [DCM::DeviceControl::DPI\\_ChannelDeleteL](#) (in IPS\_Ref\_t RefPhys, in DPI\_ChannelSettings\_List\_t ChannelSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete a list of splice-able channels.*

- void [DCM::DeviceControl::DPI\\_ChannelDeleteL3](#) (in IPS\_Ref\_t RefPhys, in DPI\_ChannelSettings3\_List\_t ChannelSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)



*Delete a list of splice-able channels.*

- void [DCM::DeviceControl::DPI\\_GetSpliceCouples](#) (in IPS\_Ref\_t RefPhys, in DPI\_ChannelName\_t channel, out DPI\_PidCoupleList\_t couples) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the custom splice couples.*

- void [DCM::DeviceControl::DPI\\_SetSpliceCouples](#) (in IPS\_Ref\_t RefPhys, in DPI\_ChannelName\_t channel, in DPI\_PidCoupleList\_t couples) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the custom splice couples.*

- void [DCM::DeviceControl::DPI\\_PmtSpliceModeSetL](#) (in IPS\_Ref\_t RefPhys, in DPI\_PmtSpliceModeSettingList\_t lst) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set Pmt Splice Mode for given channels.*

- void [DCM::DeviceControl::DPI\\_PmtSpliceModeGetL](#) (in IPS\_RefTS\_t RefTS, out DPI\_PmtSpliceModeSettingList\_t lst) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get Pmt Splice Mode for given TS('s).*

- void [DCM::DeviceControl::DPI\\_ClearPidBitratesSetL](#) (in IPS\_RefTS\_t RefTS, in ClearPidBitratesList\_t ClearPidBitratesList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Clear pid bitrates from the main Service if the pid is not spliced.*

- ClearPidBitratesList\_t [DCM::DeviceControl::DPI\\_ClearPidBitratesGetL](#) (in IPS\_RefTS\_t RefTS, in ServiceIdList\_t OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the current setting for Clear Pid Bitrates.*

- void [DCM::DeviceControl::DPI\\_AddPidsFromSpliceSetL](#) (in IPS\_RefTS\_t RefTS, in AddPidsFromSpliceList\_t AddPidsFromSpliceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add pids from the splice if there are more pids in the splice than in the main service.*

- AddPidsFromSpliceList\_t [DCM::DeviceControl::DPI\\_AddPidsFromSpliceGetL](#) (in IPS\_RefTS\_t RefTS, in ServiceIdList\_t OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the current setting for AddPidsFromSplice.*

- void [DCM::DeviceControl::AlternateSourcesAdd](#) (in IPS\_Service\_t SvcOut, in AlternateSourceList\_t AlternateSourceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add alternate source settings to an output service.*

- void [DCM::DeviceControl::AlternateSourcesGet](#) (in IPS\_Service\_t SvcOut, out AlternateSourceSettings\_t AlternateSourceSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the alternate source settings for a specific output service.*

- void [DCM::DeviceControl::AlternateSourcesDelete](#) (in IPS\_Service\_t SvcOut, in AlternateSrcIdList\_t AlternateSrcIdList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete alternate source settings for output services.*

- void [DCM::DeviceControl::SwitchToAlternateSource](#) (in IPS\_Service\_t SvcOut, in AlternateSrcId\_t AlternateSrcId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set a specific alternate source as active.*

- void [DCM::DeviceControl::DPI\\_Scte35SourceSetL](#) (in IPS\_RefTS\_t RefTS, in Scte35SourceList\_t Scte35SourceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the SCTE35 Source settings.*

- Scte35SourceList\_t [DCM::DeviceControl::DPI\\_Scte35SourceGetL](#) (in IPS\_RefTS\_t RefTS, in ServiceIdList\_t OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the current SCTE35 Source settings.*

- void [DCM::DeviceControl::DPI\\_Scte35ToggleOutOfNetworkSetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [Scte35ToggleOutOfNetworkList\\_t](#) Scte35ToggleOutOfNetworkList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the SCTE35 Toggle Out Of Network settings.*

- [Scte35ToggleOutOfNetworkList\\_t](#) [DCM::DeviceControl::DPI\\_Scte35ToggleOutOfNetworkGetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the SCTE35 Toggle Out Of Network settings.*

### 8.31.1 Detailed Description

This contains types, enums and methods to control DPI.

### 8.31.2 Typedef Documentation

#### 8.31.2.1 typedef sequence<AddPidsFromSplice\_t> DCM::DeviceControl::AddPidsFromSpliceList\_t

A sequence of [ServiceBlockCAInfo\\_t](#) entries.

Definition at line 17686 of file DCM.idl.

#### 8.31.2.2 typedef sequence< AlternateSource\_t> DCM::DeviceControl::AlternateSourceList\_t

A sequence of [AlternateSource\\_t](#) entries.

Definition at line 17728 of file DCM.idl.

#### 8.31.2.3 typedef sequence<octet> DCM::DeviceControl::AppInstanceId\_t

Definition at line 17339 of file DCM.idl.

#### 8.31.2.4 typedef sequence<ClearPidBitrates\_t> DCM::DeviceControl::ClearPidBitratesList\_t

A sequence of [ServiceBlockCAInfo\\_t](#) entries.

Definition at line 17642 of file DCM.idl.

#### 8.31.2.5 typedef sequence<DPI\_ChannelName\_t> DCM::DeviceControl::DPI\_ChannelName\_List\_t

A sequence of [DPI\\_ChannelName\\_t](#).

Definition at line 16994 of file DCM.idl.

#### 8.31.2.6 typedef sequence<DPI\_ChannelSettings2\_t> DCM::DeviceControl::DPI\_ChannelSettings2\_List\_t

A sequence of [DPI\\_ChannelSettings2\\_t](#).

Definition at line 17044 of file DCM.idl.

#### 8.31.2.7 typedef sequence<DPI\_ChannelSettings3\_t> DCM::DeviceControl::DPI\_ChannelSettings3\_List\_t

A sequence of [DPI\\_ChannelSettings3\\_t](#).

Definition at line 17063 of file DCM.idl.

### 8.31.2.8 `typedef sequence<DPI_ChannelSettings_t> DCM::DeviceControl::DPI_ChannelSettings_List_t`

A sequence of [DPI\\_ChannelSettings\\_t](#).

Definition at line 17029 of file DCM.idl.

### 8.31.2.9 `typedef sequence<DPI_ChannelStatus_t> DCM::DeviceControl::DPI_ChannelStatus_List_t`

A sequence of [DPI\\_ChannelStatus\\_t](#).

Definition at line 17074 of file DCM.idl.

### 8.31.2.10 `typedef unsigned long DCM::DeviceControl::DPI_ModeBitmap_t`

DPI mode bitfield, allowing combined DPI modes.

bit0 : Off bit1 : Scte30 bit2 : Scte35 bit3 : Manual bit4 : GPI bit5 : Custom // must be used in combination with an other mode or combined mode bit6 : Scte35Inserter bit7 : OnVideoLoss // set: act on video loss, not set: ignore video loss bit8 : Seamless alternates

Definition at line 16985 of file DCM.idl.

### 8.31.2.11 `typedef sequence<DPI_PidCouple_t> DCM::DeviceControl::DPI_PidCoupleList_t`

Definition at line 17123 of file DCM.idl.

### 8.31.2.12 `typedef sequence<DPI_PmtSpliceModeSetting_t> DCM::DeviceControl::DPI_PmtSpliceModeSettingList_t`

A sequence of [DPI\\_PmtSpliceModeSetting\\_t](#).

Definition at line 17140 of file DCM.idl.

### 8.31.2.13 `typedef sequence<ETV_ApplicationIdent_t> DCM::DeviceControl::ETV_ApplicationIdent_List_t`

Definition at line 17349 of file DCM.idl.

### 8.31.2.14 `typedef sequence<ETV_EissFilter_t> DCM::DeviceControl::ETV_EissFilter_List_t`

Definition at line 17358 of file DCM.idl.

### 8.31.2.15 `typedef sequence<ETV_ManipulationSettings_t> DCM::DeviceControl::ETV_ManipulationSettings_List_t`

A sequence of [ETV\\_ManipulationSettings\\_t](#).

Definition at line 17180 of file DCM.idl.

### 8.31.2.16 `typedef sequence<ETV_ManipulationSettings_V2_t> DCM::DeviceControl::ETV_ManipulationSettings_List_V2_t`

A sequence of [ETV\\_ManipulationSettings\\_V2\\_t](#).

Definition at line 17300 of file DCM.idl.

### 8.31.2.17 `typedef sequence< Scte35Source_t > DCM::DeviceControl::Scte35SourceList_t`

A sequence of [Scte35Source\\_t](#) entries.

Definition at line 17826 of file DCM.idl.

**8.31.2.18** `typedef sequence< Scte35ToggleOutOfNetwork_t > DCM::DeviceControl::Scte35ToggleOutOfNetworkList_t`

A sequence of [Scte35ToggleOutOfNetwork\\_t](#) entries.

Definition at line 17862 of file DCM.idl.

### 8.31.3 Enumeration Type Documentation

**8.31.3.1** `enum DCM::DeviceControl::eChannelLicenseStatus`

Enumerator:

*ChannelLicenseStatusOk*

*ChannelLicenseStatusNoDPILicense* --> Unable to reserve the required DPI licenses for this channel

Definition at line 16998 of file DCM.idl.

**8.31.3.2** `enum DCM::DeviceControl::eChannelViewingStatus`

Enumerator:

*ChannelViewingStatusPrimary* Currently playing MAIN feed.

*ChannelViewingStatusAd* Currently playing some ad.

Definition at line 17004 of file DCM.idl.

**8.31.3.3** `enum DCM::DeviceControl::eDPI_Mode`

Defines how to splice a channel.

Enumerator:

*Off* --> Splice temporally disabled

*Scte30* --> Splice triggered via Scte30 from AdServer

*Scte35* --> Splice triggered via Scte35 from primary stream with automatic PID matching

*Manual* --> Splice triggered via Command from GUI or script with automatic PID matching

*Scte35\_Custom* --> Splice triggered via Scte35 from primary stream using Custom PID couples

*Manual\_Custom* --> Splice triggered via Command from GUI or script using Custom PID couples

*Scte35\_Inserter* --> Splice will result in a Scte35 message inserted in the primary feed.

Definition at line 16960 of file DCM.idl.

**8.31.3.4** `enum DCM::DeviceControl::eETV_InsertionChannel_Mode_t`

Enumerator:

*eAdSvcUseInsertionServiceETV\_Pids* Default mode : pass ETV pid from insertion service during splice.

*eAdSvcUsePrimaryServiceETV\_Pids* During splice, keep passing ETV pid from primary service.

*eAdSvcUseOtherServiceETV\_Pids* If other service is in service loss, ETV pids from Insertion will be taken.

*eAdSvcUseDummyETV\_Pids* Create placeholders in PMT for EISS and EBIF pids.

Definition at line 17158 of file DCM.idl.

#### 8.31.3.5 enum DCM::DeviceControl::eETV\_InsertionChannel\_Mode\_V2\_t

Enumerator:

*eAdSvc\_V2\_UseInsertionServiceETV\_Pids* Default mode : pass ETV pid from insertion service during splice.

*eAdSvc\_V2\_UsePrimaryServiceETV\_Pids* During splice, keep passing ETV pid from primary service.

*eAdSvc\_V2\_UseOtherServiceETV\_Pids* If other service is in service loss, ETV pids from Insertion will be taken.

*eAdSvc\_V2\_UseDummyETV\_Pids* Create placeholders in PMT for EISS and EBIF pids.

*eAdSvc\_V2\_MergeEISS\_Pids* For future use. Merge the content of the EISS of another service into the EISS of the insertion.

*eAdSvc\_V2\_Reserved1* For future use.

*eAdSvc\_V2\_Reserved2* For future use.

*eAdSvc\_V2\_Reserved3* For future use.

*eAdSvc\_V2\_Reserved4* For future use.

*eAdSvc\_V2\_Reserved5* For future use.

Definition at line 17271 of file DCM.idl.

#### 8.31.3.6 enum DCM::DeviceControl::eETV\_PrimaryChannel\_Mode\_t

Enumerator:

*eMainSvcBlockETV\_Pids* No ETV pids at output at all times.

*eMainSvcUsePrimaryServiceETV\_Pids* Default mode : pass ETV pid from primary service.

*eMainSvcUseOtherServiceETV\_Pids* Only if other service is in service loss, ETV pids from primary will be taken.

*eMainSvcUseDummyETV\_Pids* Create placeholders in PMT for EISS and EBIF pids.

Definition at line 17142 of file DCM.idl.

#### 8.31.3.7 enum DCM::DeviceControl::eETV\_PrimaryChannel\_Mode\_V2\_t

Enumerator:

*eMainSvc\_V2\_BlockETV\_Pids* No ETV pids at output at all times.

*eMainSvc\_V2\_UsePrimaryServiceETV\_Pids* Default mode : pass ETV pid from primary service.

*eMainSvc\_V2\_UseOtherServiceETV\_Pids* Only if other service is in service loss, ETV pids from primary will be taken.

*eMainSvc\_V2\_UseDummyETV\_Pids* Create placeholders in PMT for EISS and EBIF pids.

*eMainSvc\_V2\_MergeEISS\_Pids* Merge the content of the EISS of another service into the EISS of the primary service.

*eMainSvc\_V2\_Reserved1* For future use.  
*eMainSvc\_V2\_Reserved2* For future use.  
*eMainSvc\_V2\_Reserved3* For future use.  
*eMainSvc\_V2\_Reserved4* For future use.  
*eMainSvc\_V2\_Reserved5* For future use.

Definition at line 17248 of file DCM.idl.

### 8.31.3.8 enum DCM::DeviceControl::ePmtSpliceMode

Enum indicating whether PMT should follow main or must be generated during splice.

Enumerator:

*FollowPrimary* The PMT is taken from the main stream.  
*Generated* The PMT is recreated based on the components found in the inserted stream.

Definition at line 17126 of file DCM.idl.

### 8.31.3.9 enum DCM::DeviceControl::eScte35Source

Enumerator:

*eScte35Source\_Active*  
*eScte35Source\_Insertion*  
*eScte35Source\_Other*

Definition at line 17810 of file DCM.idl.

### 8.31.3.10 enum DCM::DeviceControl::eSpliceMatchRule

Enumerator:

*Match* If Main PID not specified default is to block. Match with Ad PID  
*PassMain* Pass Main PID.

Definition at line 17110 of file DCM.idl.

## 8.31.4 Function Documentation

**8.31.4.1** void DCM::DeviceControl::AlternateSourcesAdd ( in IPS\_Service\_t *SvcOut*, in AlternateSourceList\_t *AlternateSourceList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add alternate source settings to an output service.

Parameters

|    |                             |                                                            |
|----|-----------------------------|------------------------------------------------------------|
| in | <i>SvcOut</i>               | The output service on which the settings should be applied |
| in | <i>Alternate-SourceList</i> | the settings                                               |

**Exceptions**

|                       |                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main board.                                                                        |
| <i>OpNotSucceeded</i> | In case <ul style="list-style-type: none"> <li>invalid input references are used (SvcOut).</li> </ul> |

**Note**

Existing alternate sources are untouched

**Version**

Release 7.1

**8.31.4.2** void DCM::DeviceControl::AlternateSourcesDelete ( in IPS\_Service\_t *SvcOut*, in AlternateSrcIdList\_t *AlternateSrcIdList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete alternate source settings for output services.

**Parameters**

|    |                           |                                                                                                                                                                                                 |
|----|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>SvcOut</i>             | The SvcOut on which the settings should be applied                                                                                                                                              |
| in | <i>AlternateSrcIdList</i> | A list of IDs of alternate sources that should be deleted. If empty, then all alternate sources for this Output Service will be deleted, except for the Main, the Active and the Insertion Svc. |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main board.                                                                                                                                                                                                                                       |
| <i>OpNotSucceeded</i> | In case <ul style="list-style-type: none"> <li>invalid input references are used (SvcOut)</li> <li>the main source is requested for deletion</li> <li>the active source is requested for deletion</li> <li>the insertion source is requested for deletion</li> </ul> |

**Version**

Release 7.1

**8.31.4.3** void DCM::DeviceControl::AlternateSourcesGet ( in IPS\_Service\_t *SvcOut*, out AlternateSourceSettings\_t *AlternateSourceSettings* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the alternate source settings for a specific output service.

All alternate sources will be returned. Also the main source and a possible alternate source

**Parameters**

|     |                                 |                                                    |
|-----|---------------------------------|----------------------------------------------------|
| in  | <i>SvcOut</i>                   | The output service of which settings are requested |
| out | <i>Alternate-SourceSettings</i> | the settings                                       |

**Exceptions**

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main board.                      |
| <i>OpNotSucceeded</i> | In case invalid input references are used (SvcOut). |

**Version**

Release 7.1

**8.31.4.4** `AddPidsFromSpliceList_t DCM::DeviceControl::DPI_AddPidsFromSpliceGetL ( in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current setting for AddPidsFromSplice.

**Parameters**

|    |                      |                                                                                          |
|----|----------------------|------------------------------------------------------------------------------------------|
| in | <i>RefTS</i>         | A BoardNr, PortNr and Ref specifying the TS.                                             |
| in | <i>OutputSidList</i> | A list of Service ID's to get info about. If empty, info about all services is returned. |

**Returns**

List of [AddPidsFromSplice\\_t](#) entries

**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
| <i>OpNotSucceeded</i> | invalid board/port.                |

**Version**

Release 6.9

**8.31.4.5** `void DCM::DeviceControl::DPI_AddPidsFromSpliceSetL ( in IPS_RefTS_t RefTS, in AddPidsFromSpliceList_t AddPidsFromSpliceList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add pids from the splice if there are more pids in the splice than in the main service.

**Parameters**

|    |                               |                                                                                      |
|----|-------------------------------|--------------------------------------------------------------------------------------|
| in | <i>RefTS</i>                  | A BoardNr, PortNr and Ref specifying the TS.                                         |
| in | <i>AddPidsFrom-SpliceList</i> | A list of <a href="#">AddPidsFromSplice_t</a> with the option to set on each service |



## Exceptions

|                       |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board.                                                                                                             |
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>• invalid board/port.</li> <li>• When trying to set on a seamless alternates output service.</li> </ul> |

## Version

Release 6.9

**8.31.4.6** void DCM::DeviceControl::DPI\_ChannelDeleteL ( in IPS\_Ref\_t *RefPhys*, in DPI\_ChannelSettings\_List\_t *ChannelSettingsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a list of splice-able channels.

## Parameters

|    |                             |                                           |
|----|-----------------------------|-------------------------------------------|
| in | <i>RefPhys</i>              | The Slot (and Port) to apply the call on. |
| in | <i>Channel-SettingsList</i> | Defines a list of splice-able channels.   |

## Exceptions

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
|-----------------------|------------------------------------|

**8.31.4.7** void DCM::DeviceControl::DPI\_ChannelDeleteL3 ( in IPS\_Ref\_t *RefPhys*, in DPI\_ChannelSettings3\_List\_t *ChannelSettingsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotOut, OpNotSupported)

Delete a list of splice-able channels.

## Parameters

|    |                             |                                           |
|----|-----------------------------|-------------------------------------------|
| in | <i>RefPhys</i>              | The Slot (and Port) to apply the call on. |
| in | <i>Channel-SettingsList</i> | Defines a list of splice-able channels.   |

## Exceptions

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
|-----------------------|------------------------------------|

**8.31.4.8** DPI\_ChannelSettings\_List\_t DCM::DeviceControl::DPI\_ChannelGetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_t *RefTS* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of all splice-able channels which are part of a specific output TS.

**Parameters**

|    |                |                                            |
|----|----------------|--------------------------------------------|
| in | <i>RefPhys</i> | The Slot (and Port) to apply the call on.  |
| in | <i>RefTS</i>   | The Slot, Port and Index of the output TS. |

**Returns**

DPI\_ChannelSettings\_List\_t: List of settings of splice-able channels.

**Exceptions**

|                       |                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | <ul style="list-style-type: none"> <li>When BoardNumber = 0 = Main board.</li> </ul>                         |
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>When the TS contains a seamless alternates output service.</li> </ul> |

**Note**

An incorrect RefTS will lead to an empty list being returned.

#### 8.31.4.9 DPI\_ChannelSettings2\_List\_t DCM::DeviceControl::DPI\_ChannelGetL2 ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_t *RefTS* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of all splice-able channels which are part of a specific output TS.

This call includes channel status fields.

**Parameters**

|    |                |                                            |
|----|----------------|--------------------------------------------|
| in | <i>RefPhys</i> | The Slot (and Port) to apply the call on.  |
| in | <i>RefTS</i>   | The Slot, Port and Index of the output TS. |

**Returns**

DPI\_ChannelSettings\_List2\_t: List of settings of splice-able channels.

**Exceptions**

|                       |                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | <ul style="list-style-type: none"> <li>When BoardNumber = 0 = Main board.</li> </ul>                         |
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>When the TS contains a seamless alternates output service.</li> </ul> |

**Note**

An incorrect RefTS will lead to an empty list being returned.

RefTS == 0xFFFFFFFF will return ALL splice-able channels on the board (R2.5 and higher only).

**8.31.4.10** `DPI_ChannelSettings3_List_t DCM::DeviceControl::DPI_ChannelGetL3 ( in IPS_Ref_t RefPhys, in IPS_RefTS_t RefTS )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of all splice-able channels which are part of a specific output TS.

This call includes channel status fields.

#### Parameters

|    |                |                                            |
|----|----------------|--------------------------------------------|
| in | <i>RefPhys</i> | The Slot (and Port) to apply the call on.  |
| in | <i>RefTS</i>   | The Slot, Port and Index of the output TS. |

#### Returns

`DPI_ChannelSettings_List3_t`: List of settings of splice-able channels.

#### Exceptions

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
|-----------------------|------------------------------------|

#### Note

An incorrect RefTS will lead to an empty list being returned.

RefTS == 0xFFFFFFFF will return ALL splice-able channels on the board (R2.5 and higher only).

**8.31.4.11** `void DCM::DeviceControl::DPI_ChannelSetL ( in IPS_Ref_t RefPhys, in DPI_ChannelSettings_List_t ChannelSettingsList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add new splice-able channels or change the settings of existing channels.

#### Parameters

|    |                            |                                                             |
|----|----------------------------|-------------------------------------------------------------|
| in | <i>RefPhys</i>             | The Slot (and Port) to apply the call on.                   |
| in | <i>ChannelSettingsList</i> | Defines a list of splice-able channels with their settings. |

#### Exceptions

|                       |                                                                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board.                                                                                                                                 |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (PrimaryTS refers to a stream not available on the output, non-existing mode,...).</li> </ul> |

**8.31.4.12** `void DCM::DeviceControl::DPI_ChannelSetL2 ( in IPS_Ref_t RefPhys, in DPI_ChannelSettings2_List_t ChannelSettingsList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add new splice-able channels or change the settings of existing channels.

This call includes channel status fields.

**Parameters**

|    |                             |                                                             |
|----|-----------------------------|-------------------------------------------------------------|
| in | <i>RefPhys</i>              | The Slot (and Port) to apply the call on.                   |
| in | <i>Channel-SettingsList</i> | Defines a list of splice-able channels with their settings. |

**Exceptions**

|                       |                                                                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board.                                                                                                                                 |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (PrimaryTS refers to a stream not available on the output, non-existing mode,...).</li> </ul> |

**8.31.4.13** void DCM::DeviceControl::DPI\_ChannelSetL3 ( in IPS\_Ref\_t *RefPhys*, in DPI\_ChannelSettings3\_List\_t *ChannelSettingsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Add new splice-able channels or change the settings of existing channels.

This call includes channel status fields.

**Parameters**

|    |                             |                                                             |
|----|-----------------------------|-------------------------------------------------------------|
| in | <i>RefPhys</i>              | The Slot (and Port) to apply the call on.                   |
| in | <i>Channel-SettingsList</i> | Defines a list of splice-able channels with their settings. |

**Exceptions**

|                       |                                                                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board.                                                                                                                                 |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (PrimaryTS refers to a stream not available on the output, non-existing mode,...).</li> </ul> |
| <i>OutOfRange</i>     | In case of <ul style="list-style-type: none"> <li>Invalid SpliceDelay</li> </ul>                                                                                   |

**8.31.4.14** DPI\_ChannelStatus\_List\_t DCM::DeviceControl::DPI\_ChannelStatusL ( in IPS\_Ref\_t *RefPhys*, in DPI\_ChannelStatus\_List\_t *ChannelStatusList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get current status information of all specified splice-able channels.

**Parameters**

|    |                           |                                           |
|----|---------------------------|-------------------------------------------|
| in | <i>RefPhys</i>            | The Slot (and Port) to apply the call on. |
| in | <i>ChannelStatus-List</i> | Defines a list of splice-able channels.   |

**Returns**

DPI\_ChannelStatus\_List\_t: Status info of splice-able channels.

**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
|-----------------------|------------------------------------|

**Note**

An incorrect RefTS will lead to an empty list being returned.

RefTS == 0xFFFFFFFF will return ALL splice-able channels on the board (R2.5 and higher only).

**8.31.4.15** `ClearPidBitratesList_t DCM::DeviceControl::DPI_ClearPidBitratesGetL ( in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current setting for Clear Pid Bitrates.

**Parameters**

|    |                      |                                                                                          |
|----|----------------------|------------------------------------------------------------------------------------------|
| in | <i>RefTS</i>         | A BoardNr, PortNr and Ref specifying the TS.                                             |
| in | <i>OutputSidList</i> | A list of Service ID's to get info about. If empty, info about all services is returned. |

**Returns**

List of [ClearPidBitrates\\_t](#) entries

**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
| <i>OpNotSucceeded</i> | invalid board/port.                |

**Version**

Release 6.9

**8.31.4.16** `void DCM::DeviceControl::DPI_ClearPidBitratesSetL ( in IPS_RefTS_t RefTS, in ClearPidBitratesList_t ClearPidBitratesList )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Clear pid bitrates from the main Service if the pid is not spliced.

It is possible the the main service has more pids then the service it is spliced with. If this feature is enabled, then the bitrate of these extra pids will be set to zero during the splice.

**Parameters**

|    |                              |                                                                                     |
|----|------------------------------|-------------------------------------------------------------------------------------|
| in | <i>RefTS</i>                 | A BoardNr, PortNr and Ref specifying the TS.                                        |
| in | <i>ClearPid-BitratesList</i> | A list of <a href="#">ClearPidBitrates_t</a> with the option to set on each service |

**Exceptions**

|                       |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board.                                                                                                             |
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>• invalid board/port.</li> <li>• when trying to set on a seamless alternates output service.</li> </ul> |

**Version**

Release 6.9

**8.31.4.17** void DCM::DeviceControl::DPI\_GetSpliceCouples ( in IPS\_Ref\_t *RefPhys*, in DPI\_ChannelName\_t *channel*, out DPI\_PidCoupleList\_t *couples* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the custom splice couples.

**Parameters**

|     |                |                                         |
|-----|----------------|-----------------------------------------|
| in  | <i>RefPhys</i> | The board to apply the call on          |
| in  | <i>channel</i> | The channelname to get the couples from |
| out | <i>couples</i> | The list of couples                     |

**Exceptions**

|                       |                                                                      |
|-----------------------|----------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | invalid board/port, channelname doesn't exist or has non-custom mode |
|-----------------------|----------------------------------------------------------------------|

**8.31.4.18** void DCM::DeviceControl::DPI\_PmtSpliceModeGetL ( in IPS\_RefTS\_t *RefTS*, out DPI\_PmtSpliceModeSettingList\_t *lst* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Pmt Splice Mode for given TS('s).

**Parameters**

|     |              |                                                                  |
|-----|--------------|------------------------------------------------------------------|
| in  | <i>RefTS</i> | Indicates the board, port, TS (the latter two allow wild cards). |
| out | <i>lst</i>   |                                                                  |

**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
| <i>OpNotSucceeded</i> | invalid board/port.                |

**8.31.4.19** void DCM::DeviceControl::DPI\_PmtSpliceModeSetL ( in IPS\_Ref\_t *RefPhys*, in DPI\_PmtSpliceModeSettingList\_t *lst* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Pmt Splice Mode for given channels.

**Parameters**

|    |                |                                                                   |
|----|----------------|-------------------------------------------------------------------|
| in | <i>RefPhys</i> | Indicates the board the channel(s) sit on. (The port is ignored.) |
| in | <i>lst</i>     |                                                                   |

**Exceptions**

|                       |                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board.                                                                                                                                                                                          |
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>invalid board.</li> <li>channelname doesn't exist.</li> <li>try to set Generated when in 30/35 mode.</li> <li>when trying to call on a seamless alternates output service</li> </ul> |

**Remarks**

A channel that is switched to 30/35 mode through [DPI\\_ChannelSetL\(\)](#) is set to FollowPrimary automatically.

#### 8.31.4.20 void DCM::DeviceControl::DPI\_ResetStatistics ( in unsigned short *SlotNbr* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Reset the DPI Scheduler statistics.

**Parameters**

|    |                |                                                          |
|----|----------------|----------------------------------------------------------|
| in | <i>SlotNbr</i> | The slot number on which the statistics should be reset. |
|----|----------------|----------------------------------------------------------|

**Exceptions**

|                       |                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board.                                                                               |
| <i>OpNotSucceeded</i> | When particular slot does not support splicing. <ul style="list-style-type: none"> <li>invalid board.</li> </ul> |

**Version**

Release 11.10

#### 8.31.4.21 Scte35SourceList\_t DCM::DeviceControl::DPI\_Scte35SourceGetL ( in IPS\_RefTS\_t *RefTS*, in ServiceIdList\_t *OutputSidList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the current SCTE35 Source settings.

**Parameters**

|    |                      |                                                                                          |
|----|----------------------|------------------------------------------------------------------------------------------|
| in | <i>RefTS</i>         | A BoardNr, PortNr and Ref specifying the TS.                                             |
| in | <i>OutputSidList</i> | A list of Service ID's to get info about. If empty, info about all services is returned. |

**Returns**

List of `Scte35OutOfNetworkList_t` entries

**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
| <i>OpNotSucceeded</i> | invalid board/port.                |

**Version**

Release 7.1

**8.31.4.22** `void DCM::DeviceControl::DPI_Scte35SourceSetL ( in IPS_RefTS_t RefTS, in Scte35SourceList_t Scte35SourceList ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)`

Set the SCTE35 Source settings.

**Parameters**

|    |                         |                                              |
|----|-------------------------|----------------------------------------------|
| in | <i>RefTS</i>            | A BoardNr, PortNr and Ref specifying the TS. |
| in | <i>Scte35SourceList</i> | A list of SCTE35 source settings             |

**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
| <i>OpNotSucceeded</i> | invalid board/port.                |

**Version**

Release 7.1

**8.31.4.23** `Scte35ToggleOutOfNetworkList_t DCM::DeviceControl::DPI_Scte35ToggleOutOfNetwork-GetL ( in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)`

Get the SCTE35 Toggle Out Of Network settings.

**Parameters**

|    |                      |                                                                                          |
|----|----------------------|------------------------------------------------------------------------------------------|
| in | <i>RefTS</i>         | A BoardNr, PortNr and Ref specifying the TS.                                             |
| in | <i>OutputSidList</i> | A list of Service ID's to get info about. If empty, info about all services is returned. |

**Returns**

List of [Scte35ToggleOutOfNetwork\\_t](#) entries



**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
| <i>OpNotSucceeded</i> | invalid board/port.                |

**Version**

Release 7.1

**8.31.4.24** void DCM::DeviceControl::DPI\_Scte35ToggleOutOfNetworkSetL ( in IPS\_RefTS\_t *RefTS*, in Scte35ToggleOutOfNetworkList\_t *Scte35ToggleOutOfNetworkList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the SCTE35 Toggle Out Of Network settings.

**Parameters**

|    |                                     |                                              |
|----|-------------------------------------|----------------------------------------------|
| in | <i>RefTS</i>                        | A BoardNr, PortNr and Ref specifying the TS. |
| in | <i>Scte35ToggleOutOfNetworkList</i> | A list of SCTE35 toggle settings             |

**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
| <i>OpNotSucceeded</i> | invalid board/port.                |

**Version**

Release 7.1

**8.31.4.25** void DCM::DeviceControl::DPI\_SetSpliceCouples ( in IPS\_Ref\_t *RefPhys*, in DPI\_ChannelName\_t *channel*, in DPI\_PidCoupleList\_t *couples* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the custom splice couples.

**Parameters**

|    |                |                                         |
|----|----------------|-----------------------------------------|
| in | <i>RefPhys</i> | The board to apply the call on.         |
| in | <i>channel</i> | The channelname to set the couples for. |
| in | <i>couples</i> | The couples to set.                     |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board.                                                                                                                                                                                                                                                        |
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>• invalid board/port</li> <li>• channelname doesn't exist or has non-custom mode</li> <li>• couples specify a Main PID twice</li> <li>• Ad PID entered for PassMain rule</li> <li>• When trying to set on a seamless alternates channel</li> </ul> |

**8.31.4.26** void DCM::DeviceControl::DPI\_SpliceRequest ( in IPS\_Ref\_t *RefPhys*, in DPI\_SpliceRequest\_t *SpliceRequest* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Trigger a splice request in manual mode for a spliceable channel.

**Parameters**

|    |                      |                                                                 |
|----|----------------------|-----------------------------------------------------------------|
| in | <i>RefPhys</i>       | The Slot (and Port) to apply the call on.                       |
| in | <i>SpliceRequest</i> | Defines which channel should be spliced, when and for how long. |

**Exceptions**

|                       |                                                                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board.                                                                                                                                    |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• Invalid references (Channelname does not exist on this board).</li> <li>• Channel not in manual mode.</li> </ul>  |
| <i>LicenseError</i>   | In case of <ul style="list-style-type: none"> <li>• No licenses available (for a splice-in request, splice-out is accepted even when no license available)</li> </ul> |

**8.31.4.27** DPI\_SpliceRequestTime\_t DCM::DeviceControl::DPI\_SRT\_Get ( in IPS\_Ref\_t *RefPhys* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the currently set minimum time required between the reception of a splicerequest and the actual splice moment.

**Parameters**

|    |                |                                           |
|----|----------------|-------------------------------------------|
| in | <i>RefPhys</i> | The Slot (and Port) to apply the call on. |
|----|----------------|-------------------------------------------|

**Returns**

SpliceRequestTime: Contains the minimum time.

**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
|-----------------------|------------------------------------|

**Deprecated** Obsoleted in release 11.0

**8.31.4.28** void DCM::DeviceControl::DPI\_SRT\_Set ( in IPS\_Ref\_t *RefPhys*, in DPI\_SpliceRequestTime\_t *SpliceRequestTime* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Defines the minimum time required between the reception of a splicerequest and the actual splice moment.

#### Parameters

|    |                          |                                           |
|----|--------------------------|-------------------------------------------|
| in | <i>RefPhys</i>           | The Slot (and Port) to apply the call on. |
| in | <i>SpliceRequestTime</i> | Defines the minimum time.                 |

#### Exceptions

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
|-----------------------|------------------------------------|

**Deprecated** Obsoleted in release 11.0

**8.31.4.29** ETV\_EissFilter\_List\_t DCM::DeviceControl::ETV\_EissFilter\_GetL ( in IPS\_RefTS\_t *RefTS*, in ServiceIdList\_t *OutputSidList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the current settings for ETV EISS filters.

#### Parameters

|    |                      |                                                                                          |
|----|----------------------|------------------------------------------------------------------------------------------|
| in | <i>RefTS</i>         | A BoardNr, PortNr and Ref specifying the TS.                                             |
| in | <i>OutputSidList</i> | A list of Service ID's to get info about. If empty, info about all services is returned. |

#### Returns

List of ETV\_EissFilter\_List\_t entries

#### Exceptions

|                        |                                    |
|------------------------|------------------------------------|
| <i>OpNotSupported</i>  | When BoardNumber = 0 = Main board. |
| <i>OperationFailed</i> | invalid board/port.                |

#### Version

Release 10.0

**8.31.4.30** void DCM::DeviceControl::ETV\_EissFilter\_SetL ( in IPS\_RefTS\_t *RefTS*, in ETV\_EissFilter\_List\_t *ETV\_EissFilter\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Apply ETV EISS filter settings to a number of output services.

**Parameters**

|    |                             |                                                                            |
|----|-----------------------------|----------------------------------------------------------------------------|
| in | <i>RefTS</i>                | A BoardNr, PortNr and Ref specifying the TS.                               |
| in | <i>ETV_Eiss-Filter_List</i> | A list of <a href="#">ETV_EissFilter_t</a> with filter options per service |

**Exceptions**

|                        |                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNumber = 0 = Main board.                                                                                                  |
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>• invalid board/port.</li> <li>• when invalid combination of parameters are used.</li> </ul> |

**Version**

Release 10.10

**8.31.4.31** void DCM::DeviceControl::ETV\_GetDefaultSettings ( in unsigned short *BoardNbr*, out boolean *ETV\_PidsBlocked* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the default settings for ETV Manipulation.

**Parameters**

|     |                        |                                                                          |
|-----|------------------------|--------------------------------------------------------------------------|
| in  | <i>BoardNbr</i>        | Board number where the default will be retrieved from.                   |
| out | <i>ETV_PidsBlocked</i> | Indicates whether ETV pids are blocked by default (true) or not (false). |

**Returns****Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
|-----------------------|------------------------------------|

**Version**

Release 9.0

**8.31.4.32** ETV\_ManipulationSettings\_List\_t DCM::DeviceControl::ETV\_ManipulationSettings\_GetL ( in IPS\_RefTS\_t *RefTS*, in ServiceIdList\_t *OutputSidList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the current settings for ETV Manipulation.

**Parameters**

|    |                      |                                                                                          |
|----|----------------------|------------------------------------------------------------------------------------------|
| in | <i>RefTS</i>         | A BoardNr, PortNr and Ref specifying the TS.                                             |
| in | <i>OutputSidList</i> | A list of Service ID's to get info about. If empty, info about all services is returned. |

**Returns**

List of [ETV\\_ManipulationSettings\\_t](#) entries

**Exceptions**

|                        |                                    |
|------------------------|------------------------------------|
| <i>OpNotSupported</i>  | When BoardNumber = 0 = Main board. |
| <i>OperationFailed</i> | invalid board/port.                |

**Version**

Release 9.0

**8.31.4.33** `ETV_ManipulationSettings_List_V2_t DCM::DeviceControl::ETV_ManipulationSettings_GetL_V2 ( in IPS_RefTS_t RefTS, in ServiceIdList_t OutputSidList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the current settings for ETV Manipulation.

**Parameters**

|    |                      |                                                                                          |
|----|----------------------|------------------------------------------------------------------------------------------|
| in | <i>RefTS</i>         | A BoardNr, PortNr and Ref specifying the TS.                                             |
| in | <i>OutputSidList</i> | A list of Service ID's to get info about. If empty, info about all services is returned. |

**Returns**

List of [ETV\\_ManipulationSettings\\_V2\\_t](#) entries

**Exceptions**

|                        |                                    |
|------------------------|------------------------------------|
| <i>OpNotSupported</i>  | When BoardNumber = 0 = Main board. |
| <i>OperationFailed</i> | invalid board/port.                |

**Version**

Release 10.0

**8.31.4.34** `void DCM::DeviceControl::ETV_ManipulationSettings_SetL ( in IPS_RefTS_t RefTS, in ETV_ManipulationSettings_List_t ETV_ManipulationSettings_List )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Apply ETV Manipulation settings to a number of output services.

ETV Manipulation can only be enabled if DPI mode is SCTE30.

**Parameters**

|    |                                      |                                                                                                |
|----|--------------------------------------|------------------------------------------------------------------------------------------------|
| in | <i>RefTS</i>                         | A BoardNr, PortNr and Ref specifying the TS.                                                   |
| in | <i>ETV_ManipulationSettings_List</i> | A list of <a href="#">ETV_ManipulationSettings_t</a> with the option to enable on each service |

**Exceptions**

|                        |                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNumber = 0 = Main board.                                                                                                                                 |
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>• invalid board/port.</li> <li>• when trying to enable on an output service where DPI mode is not set to SCTE30.</li> </ul> |

**Version**

Release 9.0

**8.31.4.35** void DCM::DeviceControl::ETV\_ManipulationSettings\_SetL\_V2 ( in IPS\_RefTS\_t *RefTS*, in ETV\_ManipulationSettings\_List\_V2\_t *ETV\_ManipulationSettings\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Apply ETV Manipulation settings to a number of output services.

ETV Manipulation can only be enabled if DPI mode is SCTE30.

**Parameters**

|    |                                      |                                                                                                   |
|----|--------------------------------------|---------------------------------------------------------------------------------------------------|
| in | <i>RefTS</i>                         | A BoardNr, PortNr and Ref specifying the TS.                                                      |
| in | <i>ETV_ManipulationSettings_List</i> | A list of <a href="#">ETV_ManipulationSettings_V2_t</a> with the option to enable on each service |

**Exceptions**

|                        |                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNumber = 0 = Main board.                                                                                                                                                                                             |
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>• invalid board/port.</li> <li>• when trying to enable on an output service where DPI mode is not set to SCTE30.</li> <li>• when invalid combination of parameters are used.</li> </ul> |

**Version**

Release 10.0

**8.31.4.36** void DCM::DeviceControl::ETV\_SetDefaultSettings ( in unsigned short *BoardNbr*, in boolean *ETV\_PidsBlocked* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set the default settings for ETV Manipulation.

**Parameters**

|    |                        |                                                                                |
|----|------------------------|--------------------------------------------------------------------------------|
| in | <i>BoardNbr</i>        | Board number where the default shall be set.                                   |
| in | <i>ETV_PidsBlocked</i> | Indicates whether ETV pids should be blocked by default (true) or not (false). |

**Returns****Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board. |
|-----------------------|------------------------------------|

**Version**

Release 9.0

**8.31.4.37** void DCM::DeviceControl::SwitchToAlternateSource ( in IPS\_Service\_t *SvcOut*, in AlternateSrcId\_t *AlternateSrcId* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set a specific alternate source as active.

**Parameters**

|    |                       |                                                          |
|----|-----------------------|----------------------------------------------------------|
| in | <i>SvcOut</i>         | The output service where the alternate source is located |
| in | <i>AlternateSrcId</i> | The ID of the alternate source that must be activated    |

**Exceptions**

|                       |                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main board.                                                                                                       |
| <i>OpNotSucceeded</i> | In case <ul style="list-style-type: none"> <li>• The SvcOut is invalid</li> <li>• the alternate source ID is not existing</li> </ul> |
| <i>LicenseError</i>   | for a seamless alternate output service that has no license.                                                                         |

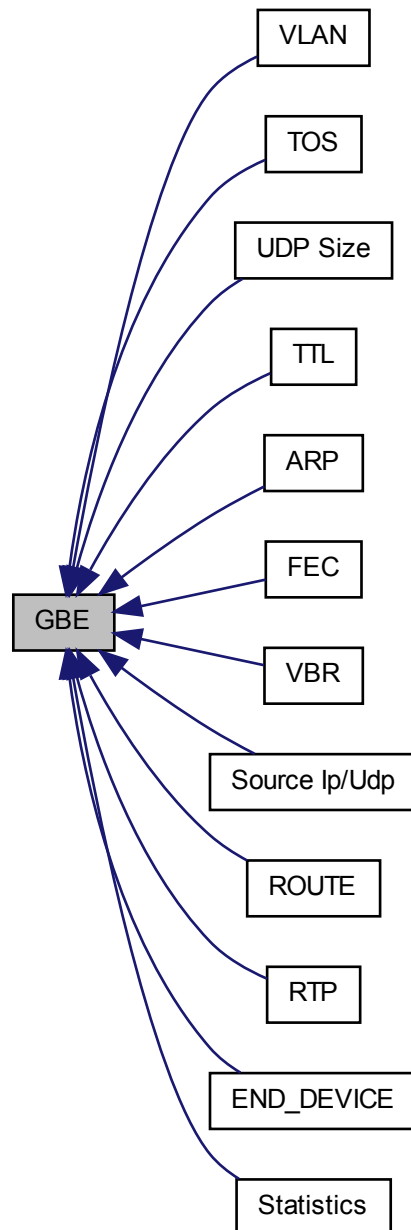
**Version**

Release 7.1

## 8.32 GBE

This group contains modules specific for GbE boards.

Collaboration diagram for GBE:





## Classes

- struct [DCM::DeviceControl::PortFilter\\_t](#)

## Modules

- [RTP](#)  
*This module contains types, enums and methods related to RTP (Real-Time Protocol).*
- [VLAN](#)  
*This module contains types, enums and methods related to VLAN (Virtual LAN).*
- [TOS](#)  
*This module contains types, enums and methods related to TOS (Type of Service).*
- [Source Ip/Udp](#)  
*This module contains types, enums and methods related to set the source ip and or udp port of an outgoing transport stream.*
- [TTL](#)  
*This module contains types, enums and methods related to TTL (*Time* to live).*
- [VBR](#)  
*This module contains types, enums and methods related to VBR (Variable Bitrate).*
- [UDP Size](#)  
*This module contains types and methods related to UDP Size.*
- [ARP](#)  
*This module contains types, enums and methods related to ARP.*
- [ROUTE](#)  
*This module contains types, enums and methods related to routing.*
- [END\\_DEVICE](#)  
*This module contains types, enums and methods related to end devices.*
- [FEC](#)  
*This contains types, enums and methods to configure the FEC streams of the device.*
- [Statistics](#)  
*This module contains types, enums and methods related to statistics gathering.*

## Enumerations

- enum [DCM::DeviceControl::ePortFilterType](#) { [DCM::DeviceControl::ePortFilter\\_PPC](#), [DCM::DeviceControl::ePortFilter\\_MPEG](#) }
- enum [DCM::DeviceControl::ePortFilterMode](#) { [DCM::DeviceControl::ePortFilter\\_Disabled](#), [DCM::DeviceControl::ePortFilter\\_MacOnly](#), [DCM::DeviceControl::ePortFilter\\_IpOnly](#), [DCM::DeviceControl::ePortFilter\\_MacIp](#) }

## Functions

- void [DCM::DeviceControl::IPS\\_GBE\\_UdpBndrySet](#) (in [IPS\\_Ref\\_t](#) RefPhys, in unsigned short UDP\_Boundary) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Specifies the range of UDP ports for which traffic will be sent to the CPU instead of being processed by the firmware.*
- void [DCM::DeviceControl::IPS\\_GBE\\_UdpBndryGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out unsigned short UDP\_Boundary) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Query the board-specific UDP threshold.*

- void **DCM::DeviceControl::IPS\_GBE\_FilterSet** (in IPS\_Ref\_t RefPhys, in PortFilter\_t PortFilter) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the PPC/MPEG filter settings of a GBE port.*

- void **DCM::DeviceControl::IPS\_GBE\_FilterGet** (in IPS\_Ref\_t RefPhys, in ePortFilterType Type, out PortFilter\_t PortFilter) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the PPC/MPEG filter settings of a GBE port.*

- void **DCM::DeviceControl::PassPacketsWithCRC\_Error\_Set** (in unsigned short BoardNr, in boolean bPass) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Drop or pass IP input packets with CRC error.*

- void **DCM::DeviceControl::PassPacketsWithCRC\_Error\_Get** (in unsigned short BoardNr, out boolean bPass) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Query if IP input packets with CRC error are being passed or dropped.*

### 8.32.1 Detailed Description

This group contains modules specific for GbE boards.

### 8.32.2 Enumeration Type Documentation

#### 8.32.2.1 enum DCM::DeviceControl::ePortFilterMode

Enumerator:

**ePortFilter\_Disabled** No filtering is done, all received packets will be processed for the selected GBE port.

**ePortFilter\_MacOnly** Packets are filtered on MAC address only.

**ePortFilter\_IpOnly** Packets are filtered on IP address only.

**ePortFilter\_MacIp** Packets are filtered on MAC and IP address.

Definition at line 18528 of file DCM.idl.

#### 8.32.2.2 enum DCM::DeviceControl::ePortFilterType

Enumerator:

**ePortFilter\_PPC** PPC protocol stack packet filter.

**ePortFilter\_MPEG** MPEG packet filter.

Definition at line 18522 of file DCM.idl.

### 8.32.3 Function Documentation

- 8.32.3.1 void **DCM::DeviceControl::IPS\_GBE\_FilterGet** ( in IPS\_Ref\_t *RefPhys*, in ePortFilterType *Type*, out PortFilter\_t *PortFilter* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the PPC/MPEG filter settings of a GBE port.

Parameters

|     |                   |                                 |
|-----|-------------------|---------------------------------|
| in  | <i>RefPhys</i>    | specifies BoardNr and PortNr.   |
| in  | <i>Type</i>       | specifies the port filter type. |
| out | <i>PortFilter</i> |                                 |

**Exceptions**

|                       |                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                                                                     |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid references RefPhys (BoardNr, PortNr)</li> <li>ePortFilterType out of range</li> </ul> |

**8.32.3.2 void DCM::DeviceControl::IPS\_GBE\_FilterSet ( in IPS\_Ref\_t *RefPhys*, in PortFilter\_t *PortFilter* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Set the PPC/MPEG filter settings of a GBE port.

**Parameters**

|    |                   |                               |
|----|-------------------|-------------------------------|
| in | <i>RefPhys</i>    | specifies BoardNr and PortNr. |
| in | <i>PortFilter</i> |                               |

**Exceptions**

|                       |                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                                                                                                           |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid references RefPhys (BoardNr, PortNr)</li> <li>ePortFilterType out of range</li> <li>ePortFilterMode out of range</li> </ul> |

**8.32.3.3 void DCM::DeviceControl::IPS\_GBE\_UdpBndryGet ( in IPS\_Ref\_t *RefPhys*, out unsigned short *UDP\_Boundary* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Query the board-specific UDP threshold.

**Parameters**

|    |                     |                            |
|----|---------------------|----------------------------|
| in | <i>RefPhys</i>      | Board and port number.     |
| in | <i>UDP_Boundary</i> | UDP port number threshold. |

**Exceptions**

|                       |                                                                                |
|-----------------------|--------------------------------------------------------------------------------|
| <i>Timeout</i>        | A timeout occurred during IIOP processing.                                     |
| <i>OpNotSucceeded</i> | If RefPhys contains an invalid board or port number.                           |
| <i>OpNotAllowed</i>   | Not logged on.                                                                 |
| <i>OpNotSupported</i> | When called for another board than a GbE one (e.g. mainboard or an ASI board). |
| <i>OutOfRange</i>     | Never thrown.                                                                  |

**8.32.3.4** void DCM::DeviceControl::IPS\_GBE\_UdpBndrySet ( in IPS\_Ref\_t *RefPhys*, in unsigned short *UDP\_Boundary* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Specifies the range of UDP ports for which traffic will be sent to the CPU instead of being processed by the firmware.

This setting applies to all ports of the specified board.

#### Parameters

|    |                     |                                                                                                                                                                                                |
|----|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>      | Board and port number. Port number is ignored.                                                                                                                                                 |
| in | <i>UDP_Boundary</i> | All incoming UDP traffic with port number below the <i>UDP_Boundary</i> threshold will be sent to the CPU. The default is zero, which means that all UDP traffic is processed by the firmware. |

#### Exceptions

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                  |
| <i>OpNotSucceeded</i> | If <i>RefPhys</i> contains an invalid board or port number. |
| <i>OpNotAllowed</i>   | Not logged on.                                              |
| <i>OpNotSupported</i> | When called for a non-GbE board.                            |
| <i>OutOfRange</i>     | Never thrown.                                               |

**8.32.3.5** void DCM::DeviceControl::PassPacketsWithCRC\_Error\_Get ( in unsigned short *BoardNr*, out boolean *bPass* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Query if IP input packets with CRC error are being passed or dropped.

#### Parameters

|     |                |                                                                                   |
|-----|----------------|-----------------------------------------------------------------------------------|
| in  | <i>BoardNr</i> |                                                                                   |
| out | <i>bPass</i>   | If true, packets with CRC errors are passed, otherwise dropped. Default is false. |

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | When <i>boardnr</i> is invalid.            |
| <i>OpNotAllowed</i>   | Not logged on.                             |
| <i>OpNotSupported</i> | When called for a non-GbE board.           |

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**8.32.3.6** void DCM::DeviceControl::PassPacketsWithCRC\_Error\_Set ( in unsigned short *BoardNr*, in boolean *bPass* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Drop or pass IP input packets with CRC error.

**Parameters**

|    |                |                                                                 |
|----|----------------|-----------------------------------------------------------------|
| in | <i>BoardNr</i> |                                                                 |
| in | <i>bPass</i>   | If true, packets with CRC errors are passed, otherwise dropped. |

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | When boardnr is invalid.                   |
| <i>OpNotAllowed</i>   | Not logged on.                             |
| <i>OpNotSupported</i> | When called for a non-GbE board.           |

**Version**

Release 10.10

## 8.33 RTP

This module contains types, enums and methods related to RTP (Real-Time Protocol).

Collaboration diagram for RTP:



### Classes

- struct [DCM::DeviceControl::IPS\\_OutTS\\_RTP\\_t](#)

### Typedefs

- typedef sequence< [IPS\\_OutTS\\_RTP\\_t](#) > [DCM::DeviceControl::IPS\\_OutTS\\_RTP\\_List\\_t](#)

### Enumerations

- enum [DCM::DeviceControl::eRTP](#) { [DCM::DeviceControl::eRTP\\_OFF](#), [DCM::DeviceControl::eRTP\\_ON](#) }

### Functions

- void [DCM::DeviceControl::OutTS\\_RTP\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_OutTS\\_RTP\\_List\\_t](#) RTPList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set RTP setting for some OutTS.*
- void [DCM::DeviceControl::OutTS\\_RTP\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) TSList, out [IPS\\_OutTS\\_RTP\\_List\\_t](#) RTPList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get RTP setting for some OutTS.*
- void [DCM::DeviceControl::SetDefault\\_RTP](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [eRTP](#) RTPOnOff) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set default RTP setting to be used for new OutTS.*
- void [DCM::DeviceControl::GetDefault\\_RTP](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [eRTP](#) RTPOnOff) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default RTP setting used for new OutTS.*

#### 8.33.1 Detailed Description

This module contains types, enums and methods related to RTP (Real-Time Protocol). RTP info can help the receiver to maintain QoS. See also [FEC](#). RTP is a (Out)TS level feature .

### 8.33.2 Typedef Documentation

#### 8.33.2.1 typedef sequence<IPS\_OutTS\_RTP\_t> DCM::DeviceControl::IPS\_OutTS\_RTP\_List\_t

Definition at line 17919 of file DCM.idl.

### 8.33.3 Enumeration Type Documentation

#### 8.33.3.1 enum DCM::DeviceControl::eRTP

Enumerator:

**eRTP\_OFF** No RTP headers in packets.

**eRTP\_ON** RTP headers in packets.

Definition at line 17907 of file DCM.idl.

### 8.33.4 Function Documentation

#### 8.33.4.1 void DCM::DeviceControl::GetDefault\_RTP ( in IPS\_Ref\_t *RefPhys*, out eRTP *RTPOnOff* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default RTP setting used for new OutTS.

Default is attached to a board.

#### Parameters

|     |                 |                       |
|-----|-----------------|-----------------------|
| in  | <i>RefPhys</i>  | Identifies the board. |
| out | <i>RTPOnOff</i> |                       |

#### Returns

RTPOnOff The default

#### Exceptions

|                       |                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for mainboard.                                                                         |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Called for an non-GbE I/O board (asi)</li> </ul> |

#### 8.33.4.2 void DCM::DeviceControl::OutTS\_RTP\_GetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *TSList*, out IPS\_OutTS\_RTP\_List\_t *RTPList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get RTP setting for some OutTS.

#### Parameters

|    |                |                                                                                                                |
|----|----------------|----------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i> | The port the OutTS are attached to. ANY_PORT is NOT allowed                                                    |
| in | <i>TSList</i>  | List of Referenced of OutputTs for which to return the RTP Setting. - Empty list=all OutTS attached to RefPhys |

|     |                |  |
|-----|----------------|--|
| out | <i>RTPList</i> |  |
|-----|----------------|--|

**Returns**

RTPList List of RefTs/eRTP pairs

**Exceptions**

|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for mainboard.                                                                                                                                                     |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• Called for an non-GbE I/O board (asi)</li> <li>• RefPhys does not exist</li> <li>• RefTs does not match RefPhys</li> </ul> |

**8.33.4.3** void DCM::DeviceControl::OutTS\_RTP\_SetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_OutTS\_RTP\_List\_t *RTPList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set RTP setting for some OutTS.

**Parameters**

|    |                |                                                             |
|----|----------------|-------------------------------------------------------------|
| in | <i>RefPhys</i> | The port the OutTS are attached to. ANY_PORT is NOT allowed |
| in | <i>RTPList</i> | List of RefTs/eRTP pairs                                    |

**Exceptions**

|                       |                                                                                                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for mainboard.                                                                                                                                                                                                                                    |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• Called for an non-GbE I/O board (asi)</li> <li>• RefPhys does not exist</li> <li>• RefTs does not match RefPhys</li> <li>• eRTP invalid</li> <li>• Disabling RTP while FEC encoding is enabled</li> </ul> |

**8.33.4.4** void DCM::DeviceControl::SetDefault\_RTP ( in IPS\_Ref\_t *RefPhys*, in eRTP *RTPOnOff* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default RTP setting to be used for new OutTS.

Default is attached to a board.

**Parameters**

|    |                 |                      |
|----|-----------------|----------------------|
| in | <i>RefPhys</i>  | Identifies the bord. |
| in | <i>RTPOnOff</i> | The default          |



**Exceptions**

|                       |                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for mainboard.                                                                                                                                                                          |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"><li>• Called for an non-GbE I/O board (asi)</li><li>• RTPOnOff invalid</li><li>• Default disabling RTP while FEC encoding is default enabled</li></ul> |

## 8.34 VLAN

This module contains types, enums and methods related to VLAN (Virtual LAN).

Collaboration diagram for VLAN:



### Classes

- struct [DCM::DeviceControl::VLAN\\_Settings\\_t](#)
- struct [DCM::DeviceControl::OutTS\\_VLAN\\_t](#)

### Typedefs

- typedef sequence< OutTS\_VLAN\_t > [DCM::DeviceControl::OutTS\\_VLAN\\_List\\_t](#)

### Enumerations

- enum [DCM::DeviceControl::eVLAN](#) { [DCM::DeviceControl::eVLAN\\_OFF](#), [DCM::DeviceControl::eVLAN\\_ON](#) }

### Functions

- void [DCM::DeviceControl::OutTS\\_VLAN\\_SetL](#) (in IPS\_Ref\_t RefPhys, in OutTS\_VLAN\_List\_t VLANList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set VLAN settings for some OutTS.*
- void [DCM::DeviceControl::OutTS\\_VLAN\\_GetL](#) (in IPS\_Ref\_t RefPhys, in IPS\_RefTS\_List\_t RefTsList, out OutTS\_VLAN\_List\_t VLANList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get VLAN settings for some OutTS.*
- void [DCM::DeviceControl::SetDefault\\_VLAN](#) (in IPS\_Ref\_t RefPhys, in VLAN\_Settings\_t VLAN\_Settings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set default VLAN settings to be used for new OutTS.*
- void [DCM::DeviceControl::GetDefault\\_VLAN](#) (in IPS\_Ref\_t RefPhys, out VLAN\_Settings\_t VLAN\_Settings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default VLAN settings that are used for new OutTS.*

#### 8.34.1 Detailed Description

This module contains types, enums and methods related to VLAN (Virtual LAN). VLAN is an ethernet feature to create independent logical networks within a physical network. VLAN is a (Out)TS level feature

### 8.34.2 Typedef Documentation

#### 8.34.2.1 typedef sequence<OutTS\_VLAN\_t> DCM::DeviceControl::OutTS\_VLAN\_List\_t

Definition at line 18017 of file DCM.idl.

### 8.34.3 Enumeration Type Documentation

#### 8.34.3.1 enum DCM::DeviceControl::eVLAN

Enumerator:

- eVLAN\_OFF* no VLAN headers in packets
- eVLAN\_ON* VLAN headers present in packets.

Definition at line 17994 of file DCM.idl.

### 8.34.4 Function Documentation

#### 8.34.4.1 void DCM::DeviceControl::GetDefault\_VLAN ( in IPS\_Ref\_t *RefPhys*, out VLAN\_Settings\_t *VLAN\_Settings* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default VLAN settings that are used for new OutTS.

Defaults are attached to a (logical) port.

##### Parameters

|     |                      |                                            |
|-----|----------------------|--------------------------------------------|
| in  | <i>RefPhys</i>       | Identifies the port. No wildcards allowed. |
| out | <i>VLAN_Settings</i> |                                            |

##### Returns

VLAN\_Settings The defaults

##### Exceptions

|                       |                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                                        |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• <i>RefPhys</i> does not exist (or is a backup port)</li> </ul> |

#### 8.34.4.2 void DCM::DeviceControl::OutTS\_VLAN\_GetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out OutTS\_VLAN\_List\_t *VLANList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get VLAN settings for some OutTS.

##### Parameters

|    |                |                                                       |
|----|----------------|-------------------------------------------------------|
| in | <i>RefPhys</i> | The port the OutTS are attached to. ANY_PORT allowed. |
|----|----------------|-------------------------------------------------------|

|     |                  |                                                                                                               |
|-----|------------------|---------------------------------------------------------------------------------------------------------------|
| in  | <i>RefTsList</i> | List of Referenced of OutTS for which to return the VLAN Settings. - Empty list=all OutTs attached to RefPhys |
| out | <i>VLANList</i>  |                                                                                                               |

**Returns**

VLANList List of RefTs/VLAN\_Settings pairs

**Exceptions**

|                       |                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When the board is not a GbE board, IP Video Adapter board or IP Audio Gateway board.                                                                |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• RefTs does not match RefPhys</li> </ul> |

**8.34.4.3** void DCM::DeviceControl::OutTS\_VLAN\_SetL ( in IPS\_Ref\_t *RefPhys*, in OutTS\_VLAN\_List\_t *VLANList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set VLAN settings for some OutTS.

**Parameters**

|    |                 |                                                      |
|----|-----------------|------------------------------------------------------|
| in | <i>RefPhys</i>  | The port the OutTS are attached to. ANY_PORT allowed |
| in | <i>VLANList</i> | List of RefTs/VLAN_Settings pairs                    |

**Exceptions**

|                       |                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When the board is not a GbE board, IP Video Adapter board or IP Audio Gateway board.                                                                                                      |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• VLAN_Settings out of range</li> <li>• RefTs does not match RefPhys</li> </ul> |

**8.34.4.4** void DCM::DeviceControl::SetDefault\_VLAN ( in IPS\_Ref\_t *RefPhys*, in VLAN\_Settings\_t *VLAN\_Settings* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default VLAN settings to be used for new OutTS.

Defaults are attached to a (logical) port.

**Parameters**

|    |                      |                                            |
|----|----------------------|--------------------------------------------|
| in | <i>RefPhys</i>       | Identifies the port. No wildcards allowed. |
| in | <i>VLAN_Settings</i> | The defaults                               |

**Exceptions**

|                       |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                                                                    |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"><li>• RefPhys does not exist (or is a backup port)</li><li>• VLAN_Settings out of range</li></ul> |

## 8.35 TOS

This module contains types, enums and methods related to TOS (Type of Service).

Collaboration diagram for TOS:



### Classes

- struct [DCM::DeviceControl::OutTS\\_TOS\\_t](#)

### Typedefs

- typedef sequence< OutTS\_TOS\_t > [DCM::DeviceControl::OutTS\\_TOS\\_List\\_t](#)

### Functions

- void [DCM::DeviceControl::OutTS\\_TOS\\_SetL](#) (in IPS\_Ref\_t RefPhys, in OutTS\_TOS\_List\_t TOS\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set TOS settings for some OutTS.*
- void [DCM::DeviceControl::OutTS\\_TOS\\_GetL](#) (in IPS\_Ref\_t RefPhys, in IPS\_RefTS\_List\_t RefTsList, out OutTS\_TOS\_List\_t TOS\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get TOS settings for some OutTS.*
- void [DCM::DeviceControl::SetDefault\\_TOS](#) (in unsigned short Board, in unsigned short TOS\_Value) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set default TOS settings to be used for new OutTS.*
- void [DCM::DeviceControl::GetDefault\\_TOS](#) (in unsigned short Board, out unsigned short TOS\_Value) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default TOS settings that are used for new OutTS.*

### 8.35.1 Detailed Description

This module contains types, enums and methods related to TOS (Type of Service). TOS is an IP header field to identify the QOS. TOS is a (Out)TS level feature that can be configured.

### 8.35.2 Typedef Documentation

#### 8.35.2.1 typedef sequence<OutTS\_TOS\_t> DCM::DeviceControl::OutTS\_TOS\_List\_t

Definition at line 18096 of file DCM.idl.

## 8.35.3 Function Documentation

**8.35.3.1** void DCM::DeviceControl::GetDefault\_TOS ( in unsigned short *Board*, out unsigned short *TOS\_Value* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default TOS settings that are used for new OutTS.

Defaults are attached to a board.

**Parameters**

|     |                  |                     |
|-----|------------------|---------------------|
| in  | <i>Board</i>     | Specifies the board |
| out | <i>TOS_Value</i> | The default         |

**Returns**

TOS\_Value The default

**Exceptions**

|                       |                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                   |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• When the mainboard is supplied</li> </ul> |

**8.35.3.2** void DCM::DeviceControl::OutTS\_TOS\_GetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out OutTS\_TOS\_List\_t *TOS\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get TOS settings for some OutTS.

**Parameters**

|     |                  |                                                                                                            |
|-----|------------------|------------------------------------------------------------------------------------------------------------|
| in  | <i>RefPhys</i>   | The port the OutTS are attached to.                                                                        |
| in  | <i>RefTsList</i> | List of Referenced of OutTS for which to return the TOS Settings. Empty list=all OutTs attached to RefPhys |
| out | <i>TOS_List</i>  |                                                                                                            |

**Returns**

TOS\_List List of RefTs/TOS\_Value pairs

**Exceptions**

|                       |                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When the board is not a GbE board, IP Video Adapter board or IP Audio Gateway board.                                                                |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• RefTs does not match RefPhys</li> </ul> |

**8.35.3.3** void DCM::DeviceControl::OutTS\_TOS\_SetL ( in IPS\_Ref\_t *RefPhys*, in OutTS\_TOS\_List\_t *TOS\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set TOS settings for some OutTS.

#### Parameters

|    |                 |                                     |
|----|-----------------|-------------------------------------|
| in | <i>RefPhys</i>  | The port the OutTS are attached to. |
| in | <i>TOS_List</i> | List of RefTs/TOS_Value pairs       |

#### Exceptions

|                       |                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When the board is not a GbE board, IP Video Adapter board or IP Audio Gateway board.                                                                                                                            |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• TOS_Value out of range (accepted range is 0-255)</li> <li>• RefTs does not match RefPhys</li> </ul> |

**8.35.3.4** void DCM::DeviceControl::SetDefault\_TOS ( in unsigned short *Board*, in unsigned short *TOS\_Value* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default TOS settings to be used for new OutTS.

Defaults are attached to a board.

#### Parameters

|    |                  |                     |
|----|------------------|---------------------|
| in | <i>Board</i>     | Specifies the board |
| in | <i>TOS_Value</i> | The default         |

#### Exceptions

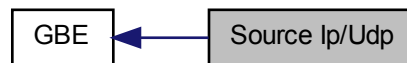
|                       |                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                                                                               |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• When the mainboard is supplied</li> <li>• TOS_Value out of range (accepted range is 0-255)</li> </ul> |



## 8.36 Source Ip/Udp

This module contains types, enums and methods related to set the source ip and or udp port of an outgoing transport stream.

Collaboration diagram for Source Ip/Udp:



### Classes

- struct [DCM::DeviceControl::SrcAddr\\_t](#)  
*Structure to specify some Ip header parameters for outgoing GbE packets.*
- struct [DCM::DeviceControl::OutTS\\_SrcAddr\\_t](#)  
*Source Address parameters for an OutTS.*
- struct [DCM::DeviceControl::OutTS\\_SrcAddr\\_V2\\_t](#)

### Typedefs

- typedef sequence< OutTS\_SrcAddr\_t > [DCM::DeviceControl::OutTS\\_SrcAddr\\_List\\_t](#)
- typedef sequence < OutTS\_SrcAddr\_V2\_t > [DCM::DeviceControl::OutTS\\_SrcAddr\\_V2\\_List\\_t](#)

### Functions

- void [DCM::DeviceControl::OutTS\\_SrcAddr\\_SetL](#) (in IPS\_Ref\_t RefPhys, in OutTS\_SrcAddr\_List\_t SrcAddr\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set Source Address settings for some OutTS.*
- void [DCM::DeviceControl::OutTS\\_SrcAddr\\_V2\\_SetL](#) (in IPS\_Ref\_t RefPhys, in OutTS\_SrcAddr\_V2\_List\_t SrcAddr\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [DCM::DeviceControl::OutTS\\_SrcAddr\\_GetL](#) (in IPS\_Ref\_t RefPhys, in IPS\_RefTS\_List\_t - RefTsList, out OutTS\_SrcAddr\_List\_t SrcAddr\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get Source Address settings for some OutTS.*
- void [DCM::DeviceControl::OutTS\\_SrcAddr\\_V2\\_GetL](#) (in IPS\_Ref\_t RefPhys, in IPS\_RefTS\_List\_t RefTsList, out OutTS\_SrcAddr\_V2\_List\_t SrcAddr\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

#### 8.36.1 Detailed Description

This module contains types, enums and methods related to set the source ip and or udp port of an outgoing transport stream.

### 8.36.2 Typedef Documentation

#### 8.36.2.1 typedef sequence<OutTS\_SrcAddr\_t> DCM::DeviceControl::OutTS\_SrcAddr\_List\_t

Definition at line 18194 of file DCM.idl.

#### 8.36.2.2 typedef sequence<OutTS\_SrcAddr\_V2\_t> DCM::DeviceControl::OutTS\_SrcAddr\_V2\_List\_t

Definition at line 18203 of file DCM.idl.

### 8.36.3 Function Documentation

#### 8.36.3.1 void DCM::DeviceControl::OutTS\_SrcAddr\_GetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out OutTS\_SrcAddr\_List\_t *SrcAddr\_List* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Source Address settings for some OutTS.

##### Parameters

|     |                     |                                                                                                                   |
|-----|---------------------|-------------------------------------------------------------------------------------------------------------------|
| in  | <i>RefPhys</i>      | The port the OutTS are attached to.                                                                               |
| in  | <i>RefTsList</i>    | List of References of OutTs for which to return the SrcAddr Settings.<br>Empty list=all OutTs attached to RefPhys |
| out | <i>SrcAddr_List</i> | List of RefTs/SrcAddr pairs                                                                                       |

##### Exceptions

|                       |                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When the board is not a GbE board, IP Video Adapter board or IP Audio Gateway board.                                                            |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>RefPhys does not exist (or is a backup port)</li> <li>RefTs does not match RefPhys</li> </ul> |

#### 8.36.3.2 void DCM::DeviceControl::OutTS\_SrcAddr\_SetL ( in IPS\_Ref\_t *RefPhys*, in OutTS\_SrcAddr\_List\_t *SrcAddr\_List* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set Source Address settings for some OutTS.

##### Parameters

|    |                     |                                     |
|----|---------------------|-------------------------------------|
| in | <i>RefPhys</i>      | The port the OutTS are attached to. |
| in | <i>SrcAddr_List</i> | List of RefTs/SrcAddr pairs         |

**Exceptions**

|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When the board is not a GbE board, IP Video Adapter board or IP Audio Gateway board.                                                                                           |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"><li>• RefPhys does not exist (or is a backup port)</li><li>• SrcAddr is invalid.</li><li>• RefTs does not match RefPhys</li></ul> |

**8.36.3.3** void DCM::DeviceControl::OutTS\_SrcAddr\_V2\_GetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out OutTS\_SrcAddr\_V2\_List\_t *SrcAddr\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

**8.36.3.4** void DCM::DeviceControl::OutTS\_SrcAddr\_V2\_SetL ( in IPS\_Ref\_t *RefPhys*, in OutTS\_SrcAddr\_V2\_List\_t *SrcAddr\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

## 8.37 TTL

This module contains types, enums and methods related to TTL ([Time](#) to live).

Collaboration diagram for TTL:



### Classes

- struct [DCM::DeviceControl::OutTS\\_TTL\\_t](#)

### Typedefs

- typedef sequence< OutTS\_TTL\_t > [DCM::DeviceControl::OutTS\\_TTL\\_List\\_t](#)

### Functions

- void [DCM::DeviceControl::OutTS\\_TTL\\_SetL](#) (in IPS\_Ref\_t RefPhys, in OutTS\_TTL\_List\_t TTL\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set TTL settings for some OutTS.*
- void [DCM::DeviceControl::OutTS\\_TTL\\_GetL](#) (in IPS\_Ref\_t RefPhys, in IPS\_RefTS\_List\_t RefTsList, out OutTS\_TTL\_List\_t TTL\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get TTL settings for some OutTS.*
- void [DCM::DeviceControl::SetDefault\\_TTL](#) (in unsigned short Board, in unsigned short TTL\_Value) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set default TTL settings to be used for new OutTS.*
- void [DCM::DeviceControl::GetDefault\\_TTL](#) (in unsigned short Board, out unsigned short TTL\_Value) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default TTL settings that are used for new OutTS.*

#### 8.37.1 Detailed Description

This module contains types, enums and methods related to TTL ([Time](#) to live). TTL is an IP header field. TTL is a (Out)TS level feature .

#### 8.37.2 Typedef Documentation

##### 8.37.2.1 typedef sequence<OutTS\_TTL\_t> DCM::DeviceControl::OutTS\_TTL\_List\_t

Definition at line 18256 of file DCM.idl.

### 8.37.3 Function Documentation

**8.37.3.1** void DCM::DeviceControl::GetDefault\_TTL ( in unsigned short *Board*, out unsigned short *TTL\_Value* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default TTL settings that are used for new OutTS.

Defaults are attached to a (logical) port.

#### Parameters

|     |                  |                     |
|-----|------------------|---------------------|
| in  | <i>Board</i>     | Specifies the board |
| out | <i>TTL_Value</i> | The default         |

#### Returns

TTL\_Value The default

#### Exceptions

|                       |                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                   |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>- When the mainboard is supplied</li> </ul> |

**8.37.3.2** void DCM::DeviceControl::OutTS\_TTL\_GetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out OutTS\_TTL\_List\_t *TTL\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get TTL settings for some OutTS.

#### Parameters

|     |                  |                                                                                                            |
|-----|------------------|------------------------------------------------------------------------------------------------------------|
| in  | <i>RefPhys</i>   | The port the OutTS are attached to.                                                                        |
| in  | <i>RefTsList</i> | List of Referenced of OutTS for which to return the TTL Settings. Empty list=all OutTs attached to RefPhys |
| out | <i>TTL_List</i>  |                                                                                                            |

#### Returns

TTL\_List List of RefTs/TTL\_Value pairs

#### Exceptions

|                       |                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When the board is not a GbE board, IP Video Adapter board or IP Audio Gateway board.                                                            |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>RefPhys does not exist (or is a backup port)</li> <li>RefTs does not match RefPhys</li> </ul> |

**8.37.3.3** void DCM::DeviceControl::OutTS\_TTL\_SetL ( in IPS\_Ref\_t *RefPhys*, in OutTS\_TTL\_List\_t *TTL\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set TTL settings for some OutTS.

#### Parameters

|    |                 |                                     |
|----|-----------------|-------------------------------------|
| in | <i>RefPhys</i>  | The port the OutTS are attached to. |
| in | <i>TTL_List</i> | List of RefTs/TTL_Value pairs       |

#### Exceptions

|                       |                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When the board is not a GbE board, IP Video Adapter board or IP Audio Gateway board.                                                                                                                              |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• TTL_Value out of range (accepted range is [1-255])</li> <li>• RefTs does not match RefPhys</li> </ul> |

**8.37.3.4** void DCM::DeviceControl::SetDefault\_TTL ( in unsigned short *Board*, in unsigned short *TTL\_Value* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default TTL settings to be used for new OutTS.

Defaults are attached to a board.

#### Parameters

|    |                  |                     |
|----|------------------|---------------------|
| in | <i>Board</i>     | Specifies the board |
| in | <i>TTL_Value</i> | The default         |

#### Exceptions

|                       |                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                                                                                 |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• When the mainboard is supplied</li> <li>• TTL_Value out of range (accepted range is [1-255])</li> </ul> |

## 8.38 VBR

This module contains types, enums and methods related to VBR (Variable Bitrate).

Collaboration diagram for VBR:



### Classes

- struct [DCM::DeviceControl::OutTS\\_VBR\\_t](#)

### Typedefs

- typedef sequence< OutTS\_VBR\_t > [DCM::DeviceControl::OutTS\\_VBR\\_List\\_t](#)

### Enumerations

- enum [DCM::DeviceControl::eVBR](#) { [DCM::DeviceControl::eVBR\\_OFF](#), [DCM::DeviceControl::eVBR\\_ON](#) }

### Functions

- void [DCM::DeviceControl::OutTS\\_VBR\\_SetL](#) (in IPS\_Ref\_t RefPhys, in OutTS\_VBR\_List\_t VBRList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set VBR setting for some OutTS.*
- void [DCM::DeviceControl::OutTS\\_VBR\\_GetL](#) (in IPS\_Ref\_t RefPhys, in IPS\_RefTS\_List\_t RefTsList, out OutTS\_VBR\_List\_t VBRList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get VBR setting for some OutTS.*
- void [DCM::DeviceControl::SetDefault\\_VBR](#) (in IPS\_Ref\_t RefPhys, in eVBR VBROnOff) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set default VBR setting to be used for new OutTS.*
- void [DCM::DeviceControl::GetDefault\\_VBR](#) (in IPS\_Ref\_t RefPhys, out eVBR VBROnOff) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default VBR setting used for new OutTS.*

#### 8.38.1 Detailed Description

This module contains types, enums and methods related to VBR (Variable Bitrate). An OutTS can have a fixed/constant bitrate (CBR) or a variable one (VBR). VBR is a (Out)TS level feature .

### 8.38.2 Typedef Documentation

#### 8.38.2.1 typedef sequence<OutTS\_VBR\_t> DCM::DeviceControl::OutTS\_VBR\_List\_t

Definition at line 18336 of file DCM.idl.

### 8.38.3 Enumeration Type Documentation

#### 8.38.3.1 enum DCM::DeviceControl::eVBR

Enumerator:

*eVBR\_OFF* CBR.

*eVBR\_ON* VBR.

Definition at line 18325 of file DCM.idl.

### 8.38.4 Function Documentation

#### 8.38.4.1 void DCM::DeviceControl::GetDefault\_VBR ( in IPS\_Ref\_t *RefPhys*, out eVBR *VBROnOff* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default VBR setting used for new OutTS.

Default is attached to a board.

##### Parameters

|     |                 |                                                  |
|-----|-----------------|--------------------------------------------------|
| in  | <i>RefPhys</i>  | Identifies the board. Only board member is used. |
| out | <i>VBROnOff</i> |                                                  |

##### Returns

VBROnOff The default

##### Exceptions

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..). |
|-----------------------|-------------------------------------------------------------|

#### 8.38.4.2 void DCM::DeviceControl::OutTS\_VBR\_GetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out OutTS\_VBR\_List\_t *VBRList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get VBR setting for some OutTS.

##### Parameters

|    |                  |                                                                                                                |
|----|------------------|----------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>   | The port the OutTS are attached to ANY_PORT allowed                                                            |
| in | <i>RefTsList</i> | List of Referenced of OutputTs for which to return the VBR Setting. - Empty list=all OutTS attached to RefPhys |
| in | <i>VBRList</i>   |                                                                                                                |



**Returns**

VBRList List of RefTs/eVBR pairs

**Exceptions**

|                       |                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                                                                         |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• RefTs does not match RefPhys</li> </ul> |

**8.38.4.3** void DCM::DeviceControl::OutTS\_VBR\_SetL ( in IPS\_Ref\_t *RefPhys*, in OutTS\_VBR\_List\_t *VBRList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set VBR setting for some OutTS.

**Parameters**

|    |                |                                                      |
|----|----------------|------------------------------------------------------|
| in | <i>RefPhys</i> | The port the OutTS are attached to. ANY_PORT allowed |
| in | <i>VBRList</i> | List of RefTs/eVBR pairs                             |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                                                                                                                                                                                                                                |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• eVBR out of range</li> <li>• RefTs does not match RefPhys</li> <li>• VBR-&gt;CBR: Bitrate for port exceeded (VBR counts as 0)</li> <li>• Enabling VBR while FEC encoding is enabled</li> </ul> |

**8.38.4.4** void DCM::DeviceControl::SetDefault\_VBR ( in IPS\_Ref\_t *RefPhys*, in eVBR *VBROnOff* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default VBR setting to be used for new OutTS.

Default is attached to a board.

**Parameters**

|    |                 |                                                 |
|----|-----------------|-------------------------------------------------|
| in | <i>RefPhys</i>  | Identifies the bord. Only board member is used. |
| in | <i>VBROnOff</i> | The default                                     |

**Exceptions**

|                       |                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                                                                        |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"><li>• VBROnOff invalid</li><li>• Default enabling VBR while FEC encoding is default enabled</li></ul> |

## 8.39 UDP Size

This module contains types and methods related to UDP Size.

Collaboration diagram for UDP Size:



### Classes

- struct [DCM::DeviceControl::OutTS\\_UdpSize\\_t](#)

### Typedefs

- typedef sequence< OutTS\_UdpSize\_t > [DCM::DeviceControl::OutTS\\_UdpSize\\_List\\_t](#)

### Functions

- void [DCM::DeviceControl::SetDefault\\_UdpSize](#) (in unsigned short BoardNr, in unsigned short UdpSize) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set default UdpSize to be used for new output TSs.*
- void [DCM::DeviceControl::GetDefault\\_UdpSize](#) (in unsigned short BoardNr, out unsigned short - UdpSize) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default UdpSize that are used for new output TSs.*
- void [DCM::DeviceControl::OutTS\\_UdpSize\\_SetL](#) (in IPS\_Ref\_t RefPhys, in OutTS\_UdpSize\_List\_t UdpSizeList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set UdpSize per output TS.*
- void [DCM::DeviceControl::OutTS\\_UdpSize\\_GetL](#) (in IPS\_Ref\_t RefPhys, in IPS\_RefTS\_List\_t - RefTsList, out OutTS\_UdpSize\_List\_t UdpList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get UdpSize per output TS.*

#### 8.39.1 Detailed Description

This module contains types and methods related to UDP Size. For a GBE OutTS each UDP packet can contain 1 to 7 MPEG packets. These methods are used to change the default or the number per TS.

#### 8.39.2 Typedef Documentation

##### 8.39.2.1 typedef sequence<OutTS\_UdpSize\_t> DCM::DeviceControl::OutTS\_UdpSize\_List\_t

Definition at line 18413 of file DCM.idl.

## 8.39.3 Function Documentation

**8.39.3.1** void DCM::DeviceControl::GetDefault\_UdpSize ( in unsigned short *BoardNr*, out unsigned short *UdpSize* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default UdpSize that are used for new output TSs.

Defaults are attached to a board.

## Parameters

|     |                |                                       |
|-----|----------------|---------------------------------------|
| in  | <i>BoardNr</i> | Identifies the board.                 |
| out | <i>UdpSize</i> | The default UDP size (1 <= size <= 7) |

## Exceptions

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..). |
|-----------------------|-------------------------------------------------------------|

## Version

Release 6.5

**8.39.3.2** void DCM::DeviceControl::OutTS\_UdpSize\_GetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out OutTS\_UdpSize\_List\_t *UdpList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get UdpSize per output TS.

## Parameters

|                  |                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------|
| <i>RefPhys</i>   | The port the output TSs are attached to.                                                           |
| <i>RefTsList</i> | List of output TSs for which to return the UdpSize. Empty list=all output TSs attached to RefPhys. |
| <i>UdpList</i>   |                                                                                                    |

## Returns

UdpList List of RefTs/UdpSize pairs

## Exceptions

|                       |                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                                                                         |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• RefTs does not match RefPhys</li> </ul> |

**Version**

Release 6.5

**8.39.3.3** void DCM::DeviceControl::OutTS\_UdpSize\_SetL ( in IPS\_Ref\_t *RefPhys*, in OutTS\_UdpSize\_List\_t *UdpSizeList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set UdpSize per output TS.

**Parameters**

|                    |                                          |
|--------------------|------------------------------------------|
| <i>RefPhys</i>     | The port the output TSs are attached to. |
| <i>UdpSizeList</i> | List of RefTs/UdpSize pairs              |

**Returns**

None

**Exceptions**

|                       |                                                                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                                                                                                                     |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"><li>• RefPhys does not exist (or is a backup port)</li><li>• UdpSize out of range</li><li>• RefTs does not match RefPhys</li></ul> |

**Version**

Release 6.5

**8.39.3.4** void DCM::DeviceControl::SetDefault\_UdpSize ( in unsigned short *BoardNr*, in unsigned short *UdpSize* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default UdpSize to be used for new output TSs.

Defaults are attached to a board.

**Parameters**

|                |                                        |
|----------------|----------------------------------------|
| <i>BoardNr</i> | Identifies the board.                  |
| <i>UdpSize</i> | The default UDP Size. (1 <= size <= 7) |

**Returns**

None

**Exceptions**

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, asi, ..).                       |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"><li>• UdpSize out of range</li></ul> |

**Version**

Release 6.5

## 8.40 ARP

This module contains types, enums and methods related to ARP.

Collaboration diagram for ARP:



### Classes

- struct [DCM::DeviceControl::ArpEntry\\_t](#)

### Typedefs

- typedef sequence< [ArpEntry\\_t](#) > [DCM::DeviceControl::ArpEntryList\\_t](#)  
*A sequence of [ArpEntry\\_t](#).*

### Enumerations

- enum [DCM::DeviceControl::eArpStatus](#) { [DCM::DeviceControl::ArpStatic](#), [DCM::DeviceControl::ArpResolved](#), [DCM::DeviceControl::ArpUnResolved](#) }
- enum [DCM::DeviceControl::eDestArpStatus](#) { [DCM::DeviceControl::ArpNotApplicable](#), [DCM::DeviceControl::DestStaticArp](#), [DCM::DeviceControl::Multicast](#), [DCM::DeviceControl::GwStaticArp](#), [DCM::DeviceControl::GwResolved](#), [DCM::DeviceControl::GwUnResolved](#), [DCM::DeviceControl::DestResolved](#), [DCM::DeviceControl::DestUnResolved](#) }

### Functions

- void [DCM::DeviceControl::ArpEntryAddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ArpEntryList\\_t](#) ArpEntryList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add an ARP entry on the specified board.*
- void [DCM::DeviceControl::ArpEntryDeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ArpEntryList\\_t](#) ArpEntryList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Removes the specified static ARP entries.*
- [ArpEntryList\\_t](#) [DCM::DeviceControl::ArpEntryGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the ARP entry list with status indication.*
- [ArpEntryList\\_t](#) [DCM::DeviceControl::ArpEntryGetFilterL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [eArpStatus](#) - [ArpStatusFilter](#)) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Get a filtered ARP entry list with status indication.*

### 8.40.1 Detailed Description

This module contains types, enums and methods related to ARP.

### 8.40.2 Typedef Documentation

#### 8.40.2.1 typedef sequence<ArpEntry\_t> DCM::DeviceControl::ArpEntryList\_t

A sequence of [ArpEntry\\_t](#).

Definition at line 18608 of file DCM.idl.

### 8.40.3 Enumeration Type Documentation

#### 8.40.3.1 enum DCM::DeviceControl::eArpStatus

Enumerator:

*ArpStatic*  
*ArpResolved*  
*ArpUnResolved*

Definition at line 18580 of file DCM.idl.

#### 8.40.3.2 enum DCM::DeviceControl::eDestArpStatus

Enumerator:

*ArpNotApplicable*  
*DestStaticArp*  
*Multicast*  
*GwStaticArp*  
*GwResolved*  
*GwUnResolved*  
*DestResolved*  
*DestUnResolved*

Definition at line 18587 of file DCM.idl.

### 8.40.4 Function Documentation

#### 8.40.4.1 void DCM::DeviceControl::ArpEntryAddL ( in IPS\_Ref\_t *RefPhys*, in *ArpEntryList\_t* *ArpEntryList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add an ARP entry on the specified board.

An ARP entry is an association between the IP address of an external device (destination, router,...) and its MAC address.

#### Parameters

|    |                     |                                  |
|----|---------------------|----------------------------------|
| in | <i>RefPhys</i>      | Board and port number.           |
| in | <i>ArpEntryList</i> | List of ARP entries to be added. |



## Exceptions

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                                                                                                   |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys of one of the list elements is invalid.</li> <li>• When the ArpStatus of one of the list elements differs from Static.</li> <li>• Inconsistency between RefPhys.BoardNr and ArpEntryList[x].RefPhys.-BoardNr for a list element.</li> <li>• Inconsistency between RefPhys.PortNr and ArpEntryList[x].RefPhys.PortNr in case RefPhys.PortNr != 0xFFFF.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                                                                                                                                                                                                                                               |
| <i>OpNotSupported</i> | When called for other boards than GbE ones.                                                                                                                                                                                                                                                                                                                                                                                  |

**8.40.4.2** void DCM::DeviceControl::ArpEntryDeleteL ( in IPS\_Ref\_t *RefPhys*, in ArpEntryList\_t *ArpEntryList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Removes the specified static ARP entries.

## Parameters

|    |                     |                                    |
|----|---------------------|------------------------------------|
| in | <i>RefPhys</i>      | Board and port number.             |
| in | <i>ArpEntryList</i> | List of ARP entries to be removed. |

## Exceptions

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                                                                                                   |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys of one of the list elements is invalid.</li> <li>• When the ArpStatus of one of the list elements differs from Static.</li> <li>• Inconsistency between RefPhys.BoardNr and ArpEntryList[x].RefPhys.-BoardNr for a list element.</li> <li>• Inconsistency between RefPhys.PortNr and ArpEntryList[x].RefPhys.PortNr in case RefPhys.PortNr != 0xFFFF.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                                                                                                                                                                                                                                               |
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, ASI,...).                                                                                                                                                                                                                                                                                                                                                                  |

## Note

Attempts to remove non-existing ARP entries are silently ignored.

**8.40.4.3** ArpEntryList\_t DCM::DeviceControl::ArpEntryGetFilterL ( in IPS\_Ref\_t *RefPhys*, in eArpStatus *ArpStatusFilter* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Get a filtered ARP entry list with status indication.

## Parameters

|    |                        |                                                                                                   |
|----|------------------------|---------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>         | Board and port number. When 0xffff is specified for PortNr information for all ports is returned. |
| in | <i>ArpStatusFilter</i> | Filter on this ARP status.                                                                        |

**Returns**

ArpEntryList Requested ARP entry list.

**Exceptions**

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                       |
| <i>OpNotSucceeded</i> | RefPhys refers to a nonexisting board, or an invalid filter value was specified. |
| <i>OpNotAllowed</i>   | Not logged on.                                                                   |
| <i>OpNotSupported</i> | RefPhys refers to a non-GbE board.                                               |

**8.40.4.4** **ArpEntryList.t DCM::DeviceControl::ArpEntryGetL ( in IPS\_Ref\_t *RefPhys* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Get the ARP entry list with status indication.

**Parameters**

|           |                |                                                                                                   |
|-----------|----------------|---------------------------------------------------------------------------------------------------|
| <i>in</i> | <i>RefPhys</i> | Board and port number. When 0xffff is specified for PortNr information for all ports is returned. |
|-----------|----------------|---------------------------------------------------------------------------------------------------|

**Returns**

ArpEntryList Requested ARP entry list.

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | RefPhys refers to a nonexisting board.     |
| <i>OpNotAllowed</i>   | Not logged on.                             |
| <i>OpNotSupported</i> | RefPhys refers to a non-GbE board.         |

## 8.41 ROUTE

This module contains types, enums and methods related to routing.

Collaboration diagram for ROUTE:



### Classes

- struct [DCM::DeviceControl::IP\\_Route\\_t](#)
- struct [DCM::DeviceControl::IP\\_Route\\_t\\_V2](#)

### Typedefs

- typedef sequence< IP\_Route\_t > [DCM::DeviceControl::IP\\_RouteList\\_t](#)  
*A sequence of [IP\\_Route\\_t](#).*
- typedef sequence< IP\_Route\_t\_V2 > [DCM::DeviceControl::IP\\_RouteList\\_t\\_V2](#)  
*A sequence of [IP\\_Route\\_t\\_V2](#).*

### Enumerations

- enum [DCM::DeviceControl::eDestRoutingStatus](#) { [DCM::DeviceControl::RoutingNotApplicable](#), [DCM::DeviceControl::NotRoutable](#), [DCM::DeviceControl::Routable\\_LAN](#), [DCM::DeviceControl::Routable\\_GW](#) }

### Functions

- void [DCM::DeviceControl::RouteEntryAddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_RouteList\\_t](#) RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add or replace static routes on the specified board and port.*
- void [DCM::DeviceControl::RouteEntryIPv6AddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_RouteList\\_t](#) RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add or replace static routes on the specified board and port.*
- void [DCM::DeviceControl::RouteEntryDeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_RouteList\\_t](#) RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete a list of routes.*
- void [DCM::DeviceControl::RouteEntryIPv6DeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_RouteList\\_t](#) - RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete a list of routes.*
- [IP\\_RouteList\\_t](#) [DCM::DeviceControl::RouteEntryGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the routing entries for the specified board and port.*

- IP\_RouteList\_t [DCM::DeviceControl::RouteEntryGetFilterL](#) (in IPS\_Ref\_t RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the static route entries.*

- IP\_RouteList\_t [DCM::DeviceControl::RouteEntryIPv6GetFilterL](#) (in IPS\_Ref\_t RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the static route entries.*

- void [DCM::DeviceControl::RouteEntrySetL](#) (in IPS\_Ref\_t RefPhys, in IP\_RouteList\_t RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add or replace the specified static routes.*

- void [DCM::DeviceControl::RouteEntryAddL\\_V2](#) (in IPS\_Ref\_t RefPhys, in IP\_RouteList\_t\_V2 - RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Add or replace static routes on the specified board and port.*

- void [DCM::DeviceControl::RouteEntryDeleteL\\_V2](#) (in IPS\_Ref\_t RefPhys, in IP\_RouteList\_t\_V2 RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete a list of routes.*

- IP\_RouteList\_t\_V2 [DCM::DeviceControl::RouteEntryGetFilterL\\_V2](#) (in IPS\_Ref\_t RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the static route entries.*

#### 8.41.1 Detailed Description

This module contains types, enums and methods related to routing.

#### 8.41.2 Typedef Documentation

##### 8.41.2.1 typedef sequence<IP\_Route\_t> DCM::DeviceControl::IP\_RouteList\_t

A sequence of [IP\\_Route\\_t](#).

Definition at line 18710 of file DCM.idl.

##### 8.41.2.2 typedef sequence<IP\_Route\_t\_V2> DCM::DeviceControl::IP\_RouteList\_t\_V2

A sequence of [IP\\_Route\\_t\\_V2](#).

Definition at line 18722 of file DCM.idl.

#### 8.41.3 Enumeration Type Documentation

##### 8.41.3.1 enum DCM::DeviceControl::eDestRoutingStatus

Enumerator:

*RoutingNotApplicable*

*NotRoutable*

*Routable\_LAN*

*Routable\_GW*

Definition at line 18724 of file DCM.idl.

## 8.41.4 Function Documentation

**8.41.4.1** void DCM::DeviceControl::RouteEntryAddL ( in IPS\_Ref\_t *RefPhys*, in IP\_RouteList\_t *RouteList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add or replace static routes on the specified board and port.

## Parameters

|    |                  |                        |
|----|------------------|------------------------|
| in | <i>RefPhys</i>   | Board and port number. |
| in | <i>RouteList</i> | List with routes.      |

## Exceptions

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (RefPhys).</li> <li>When subnet_Gateway != subnet_GbE_port for a GbE Board.</li> <li>When subnet_Gateway != subnet_mainboard_port for the mainboard.</li> <li>When subnet destination host == subnet_GbE_port.</li> <li>When subnet destination host == subnet_mainboard_port of the mainboard.</li> <li>Invalid SubNetMask.</li> <li>Inconsistency between RefPhys.BoardNr &amp; RouteList[x].RefPhys.BoardNr.</li> <li>Inconsistency between RefPhys.PortNr &amp; RouteList[x].RefPhys.PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>When adding a default gateway for the mainboard</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <i>OpNotSupported</i> | When called for other boards than a GbE-I/O board and the mainboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Version

Mainboard support added in release 5.1

## Note

RouteList[i].Static is ignored - all entries are treated as static  
 RouteList[i].RefPhys.BoardNr must match RefPhys.BoardNr  
 To add a default gateway a.b.c.d, specify RouteList[i].IP\_Addr = 0.0.0.0, RouteList[i].SubNetMask = 0.0.0.0 and Gateway = a.b.c.d .  
 Adding a default gateway is only supported on a GbE-I/O board and not on the mainboard  
 If RouteList[i].RefPhys.PortNr == 0xffff, then routing entry i is applied to all ports of the specified board. The route will only be added if RouteList[i].SubNetMask matches the subnet of the port exactly  
 !

**8.41.4.2** void DCM::DeviceControl::RouteEntryAddL\_V2 ( in IPS\_Ref\_t *RefPhys*, in IP\_RouteList\_t\_V2 *RouteList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Add or replace static routes on the specified board and port.

**Parameters**

|    |                  |                        |
|----|------------------|------------------------|
| in | <i>RefPhys</i>   | Board and port number. |
| in | <i>RouteList</i> | List with routes.      |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>         | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <i>OpNotSucceeded</i>  | In case of <ul style="list-style-type: none"> <li>Invalid references (RefPhys).</li> <li>When subnet_Gateway != subnet_mainboard_port for the mainboard.</li> <li>When subnet destination host == subnet_mainboard_port of the mainboard.</li> <li>Invalid PrefixLength.</li> <li>Inconsistency between RefPhys.BoardNr &amp; RouteList[x].RefPhys.BoardNr.</li> <li>Inconsistency between RefPhys.PortNr &amp; RouteList[x].RefPhys.PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>When adding a default gateway for the mainboard</li> </ul> |
| <i>OpNotAllowed</i>    | Not logged on.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>OpNotSupported</i>  | When called for other boards than the mainboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <i>OperationFailed</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Version**

Mainboard support added in release 10.10

**Note**

RouteList[i].Static is ignored - all entries are treated as static  
RouteList[i].RefPhys.BoardNr must match RefPhys.BoardNr  
For IPv4, to add a default gateway a.b.c.d, specify RouteList[i].IP\_Addr = 0.0.0.0, RouteList[i].PrefixLength = 0 and Gateway = a.b.c.d .  
For IPv6, to add a default gateway a:b:c:d:e:f:g:h, specify RouteList[i].IP\_Addr = ::, RouteList[i].PrefixLength = 0 and Gateway = a:b:c:d:e:f:g:h .  
Adding a default gateway via this call is not supported on the mainboard, use the IPS\_IP\_ParamsMB-Set\_V2 IDL call for this.  
If RouteList[i].RefPhys.PortNr == 0xffff, then routing entry i is applied to all ports of the specified board. The route will only be added if the prefix of the gateway in RouteList[i] matches oen of the prefixes on the port exactly!

**8.41.4.3 void DCM::DeviceControl::RouteEntryDeleteL ( in IPS\_Ref\_t *RefPhys*, in IP\_RouteList\_t *RouteList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Delete a list of routes.

Only static routes will be deleted.

**Parameters**

|    |                  |                                                       |
|----|------------------|-------------------------------------------------------|
| in | <i>RefPhys</i>   | Specifies BoardNr & PortNr to delete the routes from. |
| in | <i>RouteList</i> | List with routes.                                     |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                                     |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• Invalid references (RefPhys).</li> <li>• Inconsistency between RefPhys.BoardNr and RouteList[x].RefPhys.BoardNr.</li> <li>• Inconsistency between RefPhys.PortNr and RouteList[x].RefPhys.PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>• When deleting a default gateway for the mainboard</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                                                                                                                                                                                 |
| <i>OpNotSupported</i> | When called for other boards than a GbE-I/O board and the mainboard                                                                                                                                                                                                                                                                                            |

**Version**

Mainboard support added in release 5.1

**Note**

RouteList[i].Static is ignored - all entries are treated as static

To delete a default gateway a.b.c.d, set IP\_Addr to 0.0.0.0, SubNetMask = 0.0.0.0 and Gateway to a.b.c.d .

Deleting a default gateway is only supported on a GbE-I/O board and not on the mainboard

**8.41.4.4** void DCM::DeviceControl::RouteEntryDeleteL\_V2 ( in IPS\_Ref\_t RefPhys, in IP\_RouteList\_t\_V2 RouteList ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Delete a list of routes.

Only static routes will be deleted.

**Parameters**

|    |                  |                                                       |
|----|------------------|-------------------------------------------------------|
| in | <i>RefPhys</i>   | Specifies BoardNr & PortNr to delete the routes from. |
| in | <i>RouteList</i> | List with routes.                                     |

**Exceptions**

|                        |                                                                                                                                                                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>         | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                                     |
| <i>OpNotSucceeded</i>  | In case of <ul style="list-style-type: none"> <li>• Invalid references (RefPhys).</li> <li>• Inconsistency between RefPhys.BoardNr and RouteList[x].RefPhys.BoardNr.</li> <li>• Inconsistency between RefPhys.PortNr and RouteList[x].RefPhys.PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>• When deleting a default gateway for the mainboard</li> </ul> |
| <i>OpNotAllowed</i>    | Not logged on.                                                                                                                                                                                                                                                                                                                                                 |
| <i>OpNotSupported</i>  | When called for other boards than the mainboard                                                                                                                                                                                                                                                                                                                |
| <i>OperationFailed</i> |                                                                                                                                                                                                                                                                                                                                                                |

**Version**

Mainboard support added in release 10.10

**Note**

RouteList[i].Static is ignored - all entries are treated as static  
 Deleting a default gateway not supported on the mainboard

#### 8.41.4.5 IP\_RouteList\_t DCM::DeviceControl::RouteEntryGetFilterL ( in IPS\_Ref\_t RefPhys ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the static route entries.

**Parameters**

|    |         |                                                                                                                   |
|----|---------|-------------------------------------------------------------------------------------------------------------------|
| in | RefPhys | Board and port number to get information from. Specify 0xffff for PortNr to retrieve information about all ports. |
|----|---------|-------------------------------------------------------------------------------------------------------------------|

**Returns**

RouteList Requested route list.

**Exceptions**

|                |                                                                     |
|----------------|---------------------------------------------------------------------|
| TimeOut        | A timeout occurred during IIOP processing.                          |
| OpNotSucceeded | RefPhys is not valid.                                               |
| OpNotAllowed   | Not logged on.                                                      |
| OpNotSupported | When called for other boards than a GbE-I/O board and the mainboard |

**Version**

Mainboard support added in release 5.1

#### 8.41.4.6 IP\_RouteList\_t\_V2 DCM::DeviceControl::RouteEntryGetFilterL\_V2 ( in IPS\_Ref\_t RefPhys ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the static route entries.

**Parameters**

|    |         |                                                                                                                   |
|----|---------|-------------------------------------------------------------------------------------------------------------------|
| in | RefPhys | Board and port number to get information from. Specify 0xffff for PortNr to retrieve information about all ports. |
|----|---------|-------------------------------------------------------------------------------------------------------------------|

**Returns**

RouteList Requested route list.

**Exceptions**

|                |                                            |
|----------------|--------------------------------------------|
| TimeOut        | A timeout occurred during IIOP processing. |
| OpNotSucceeded | RefPhys is not valid.                      |



|                        |                                                 |
|------------------------|-------------------------------------------------|
| <i>OpNotAllowed</i>    | Not logged on.                                  |
| <i>OpNotSupported</i>  | When called for other boards than the mainboard |
| <i>OperationFailed</i> |                                                 |

### Version

Mainboard support added in release 10.10

#### 8.41.4.7 IP\_RouteList\_t DCM::DeviceControl::RouteEntryGetL ( in IPS\_Ref\_t *RefPhys* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the routing entries for the specified board and port.

### Parameters

|    |                |                                                                                                                   |
|----|----------------|-------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i> | Board and port number to get information from. Specify 0xffff for PortNr to retrieve information about all ports. |
|----|----------------|-------------------------------------------------------------------------------------------------------------------|

### Returns

RouteList Requested route list.

### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | RefPhys is not valid.                      |
| <i>OpNotAllowed</i>   | Not logged on.                             |
| <i>OpNotSupported</i> | When called for a non-GbE board.           |

#### 8.41.4.8 void DCM::DeviceControl::RouteEntryIPv6AddL ( in IPS\_Ref\_t *RefPhys*, in IP\_RouteList\_t *RouteList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add or replace static routes on the specified board and port.

### Parameters

|    |                  |                        |
|----|------------------|------------------------|
| in | <i>RefPhys</i>   | Board and port number. |
| in | <i>RouteList</i> | List with routes.      |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• Invalid references (RefPhys).</li> <li>• When subnet_Gateway != subnet_GbE_port for a GbE Board.</li> <li>• When subnet_Gateway != subnet_mainboard_port for the mainboard.</li> <li>• When subnet destination host == subnet_GbE_port.</li> <li>• When subnet destination host == subnet_mainboard_port of the mainboard.</li> <li>• Invalid SubNetMask.</li> <li>• Inconsistency between RefPhys.BoardNr &amp; RouteList[x].RefPhys.BoardNr.</li> <li>• Inconsistency between RefPhys.PortNr &amp; RouteList[x].RefPhys.PortNr in case RefPhys.PortNr != 0xFFFF.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <i>OpNotSupported</i> | When called for other boards than a GbE-I/O board and the mainboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Version**

Mainboard support added in release 5.1

**Note**

RouteList[i].Static is ignored - all entries are treated as static  
 RouteList[i].RefPhys.BoardNr must match RefPhys.BoardNr  
 To add a default gateway x:x:x:x:x:x, specify RouteList[i].IP\_Addr = ::, RouteList[i].SubNetMask = :: and Gateway = x:x:x:x:x:x .  
 If RouteList[i].RefPhys.PortNr == 0xffff, then routing entry i is applied to all ports of the specified board. The route will only be added if RouteList[i].SubNetMask matches the subnet of the port exactly !  
 !!!! EXPERIMENTAL - DO NOT USE !!!!

**8.41.4.9** void DCM::DeviceControl::RouteEntryIPv6DeleteL ( in IPS\_Ref\_t *RefPhys*, in IP\_RouteList\_t *RouteList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete a list of routes.

Only static routes will be deleted.

**Parameters**

|    |                  |                                                       |
|----|------------------|-------------------------------------------------------|
| in | <i>RefPhys</i>   | Specifies BoardNr & PortNr to delete the routes from. |
| in | <i>RouteList</i> | List with routes.                                     |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                             |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (RefPhys).</li> <li>Inconsistency between RefPhys.BoardNr and RouteList[x].RefPhys.BoardNr.</li> <li>Inconsistency between RefPhys.PortNr and RouteList[x].RefPhys.PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>When deleting a default gateway for the mainboard</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                                                                                                                                                                         |
| <i>OpNotSupported</i> | When called for other boards than a GbE-I/O board and the mainboard                                                                                                                                                                                                                                                                                    |

**Version**

Mainboard support added in release 5.1

**Note**

RouteList[i].Static is ignored - all entries are treated as static

To delete a default gateway x:x:x:x:x:x:x, set IP\_Addr to ::, SubNetMask = :: and Gateway to x:x:x-x:x:x:x:x .

!!!! EXPERIMENTAL - DO NOT USE !!!!

#### 8.41.4.10 IP.RouteList.t DCM::DeviceControl::RouteEntryIPv6GetFilterL ( in IPS\_Ref\_t RefPhys ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the static route entries.

**Parameters**

|    |         |                                                                                                                   |
|----|---------|-------------------------------------------------------------------------------------------------------------------|
| in | RefPhys | Board and port number to get information from. Specify 0xffff for PortNr to retrieve information about all ports. |
|----|---------|-------------------------------------------------------------------------------------------------------------------|

**Returns**

RouteList Requested route list.

**Exceptions**

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                          |
| <i>OpNotSucceeded</i> | RefPhys is not valid.                                               |
| <i>OpNotAllowed</i>   | Not logged on.                                                      |
| <i>OpNotSupported</i> | When called for other boards than a GbE-I/O board and the mainboard |

**Version**

Mainboard support added in release 5.1

**Note**

!!!! EXPERIMENTAL - DO NOT USE !!!!

**8.41.4.11** void DCM::DeviceControl::RouteEntrySetL ( in IPS\_Ref\_t *RefPhys*, in IP\_RouteList\_t *RouteList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add or replace the specified static routes.

Deletes all existing static route entries.

**Parameters**

|    |                  |                                               |
|----|------------------|-----------------------------------------------|
| in | <i>RefPhys</i>   | Board and port number to apply the routes to. |
| in | <i>RouteList</i> | List with routes.                             |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (RefPhys or RouteList[i].RefPhys).</li> <li>Inconsistency between RefPhys.BoardNr and RouteList[i].RefPhys.BoardNr.</li> <li>Inconsistency between RefPhys.PortNr and RouteList[i].RefPhys.PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>When subnet destination host == subnet_GbE_port.</li> <li>When subnet_Gateway != subnet_GbE_port.</li> <li>Invalid SubNetMask.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <i>OpNotSupported</i> | When called for a non-GbE board.                                                                                                                                                                                                                                                                                                                                                                                                                            |

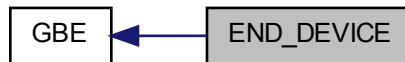
**Note**

RouteList[i].Static is ignored - all entries are treated as static

## 8.42 END\_DEVICE

This module contains types, enums and methods related to end devices.

Collaboration diagram for END\_DEVICE:



### Classes

- struct [DCM::DeviceControl::EndDeviceEntry\\_t](#)

### Typedefs

- typedef sequence < EndDeviceEntry\_t > [DCM::DeviceControl::EndDeviceList\\_t](#)  
A sequence of [EndDeviceEntry\\_t](#).

### Functions

- EndDeviceList\_t [DCM::DeviceControl::EndDeviceEntryGetL](#) (in IPS\_Ref\_t RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
Get a list of end devices.

#### 8.42.1 Detailed Description

This module contains types, enums and methods related to end devices.

#### 8.42.2 Typedef Documentation

##### 8.42.2.1 typedef sequence<EndDeviceEntry\_t> DCM::DeviceControl::EndDeviceList\_t

A sequence of [EndDeviceEntry\\_t](#).

Definition at line 19041 of file DCM.idl.

#### 8.42.3 Function Documentation

##### 8.42.3.1 EndDeviceList\_t DCM::DeviceControl::EndDeviceEntryGetL ( in IPS\_Ref\_t RefPhys ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get a list of end devices.

**Parameters**

|                 |                |                                                                                                         |
|-----------------|----------------|---------------------------------------------------------------------------------------------------------|
| <code>in</code> | <i>RefPhys</i> | Specifies the Port for which to get the EndDevices. Wildcard is allowed. RefPhys can be a virtual port. |
|-----------------|----------------|---------------------------------------------------------------------------------------------------------|

**Returns**

EndDeviceList\_t List with end devices.

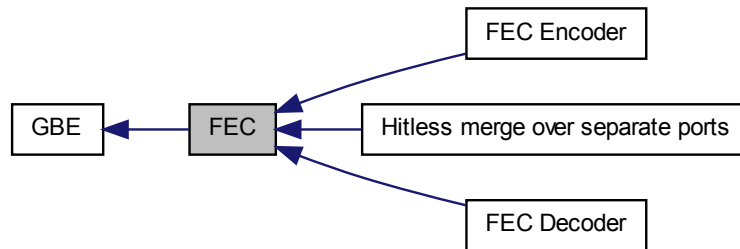
**Exceptions**

|                       |                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, ASI,...).                              |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"><li>Invalid references (RefPhys).</li></ul> |

## 8.43 FEC

This contains types, enums and methods to configure the FEC streams of the device.

Collaboration diagram for FEC:



### Modules

- [FEC Decoder](#)  
*This contains types, enums and methods to configure the FEC decoder part of the device.*
- [FEC Encoder](#)  
*This contains types, enums and methods to configure the FEC encoder part of the device.*
- [Hitless merge over separate ports](#)  
*This contains types, enums and methods to configure Hitless Merge over separate ports.*

### 8.43.1 Detailed Description

This contains types, enums and methods to configure the FEC streams of the device.

## 8.44 FEC Decoder

This contains types, enums and methods to configure the FEC decoder part of the device.

Collaboration diagram for FEC Decoder:



### Classes

- struct [DCM::DeviceControl::FEC\\_Dec\\_Setting\\_t](#)  
*FEC decoder settings.*
- struct [DCM::DeviceControl::InTS\\_FEC\\_Dec\\_Setting\\_t](#)  
*FEC encoder settings for specific TS.*
- struct [DCM::DeviceControl::InTS\\_FEC\\_Dec\\_DefRuleSetting\\_t](#)  
*FEC decoder default rule settings.*
- struct [DCM::DeviceControl::FEC\\_Dec\\_Statistics\\_t](#)  
*FEC decoder statistics.*
- struct [DCM::DeviceControl::InTS\\_FEC\\_Dec\\_Statistics\\_t](#)  
*FEC decoder statistics for specific TS.*
- struct [DCM::DeviceControl::FEC\\_Dec\\_Status\\_t](#)  
*FEC decoder status.*
- struct [DCM::DeviceControl::InTS\\_FEC\\_Dec\\_Status\\_t](#)  
*FEC decoder status for specific TS.*

### Typedefs

- typedef sequence < InTS\_FEC\_Dec\_Setting\_t > [DCM::DeviceControl::InTS\\_FEC\\_Dec\\_Setting\\_List\\_t](#)  
*A sequence of [InTS\\_FEC\\_Dec\\_Setting\\_t](#) entries.*
- typedef sequence < InTS\_FEC\_Dec\_Statistics\_t > [DCM::DeviceControl::InTS\\_FEC\\_Dec\\_Statistics\\_List\\_t](#)  
*A sequence of [InTS\\_FEC\\_Dec\\_Statistics\\_t](#) entries.*
- typedef sequence < InTS\_FEC\_Dec\_Status\_t > [DCM::DeviceControl::InTS\\_FEC\\_Dec\\_Status\\_List\\_t](#)  
*A sequence of [InTS\\_FEC\\_Dec\\_Status\\_t](#) entries.*



## Enumerations

- enum `DCM::DeviceControl::eFECDecMode` { `DCM::DeviceControl::eFEC_DEC_DISABLED`, `DCM::DeviceControl::eFEC_DEC_1D_MODE`, `DCM::DeviceControl::eFEC_DEC_2D_MODE`, `DCM::DeviceControl::eFEC_RTP_REORDER_ONLY` }

*Input mode for FEC decoder.*

- enum `DCM::DeviceControl::eFECIncrScheme` { `DCM::DeviceControl::eUDP_OFFSET`, `DCM::DeviceControl::eIP_OFFSET` }

*FEC stream's increment scheme for default settings (increase IP or UDP)*

## Functions

- void `DCM::DeviceControl::InTS_FEC_Dec_SetL` (in `IPS_Ref_t RefPhys`, in `InTS_FEC_Dec_Setting_List_t InTS_FEC_Dec_Setting_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set FEC decoder settings for some input TS.*

- void `DCM::DeviceControl::InTS_FEC_Dec_GetL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`, out `InTS_FEC_Dec_Setting_List_t InTS_FEC_Dec_Setting_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get FEC decoder settings for some input TS.*

- void `DCM::DeviceControl::InTS_FEC_Dec_DeL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Delete the FEC decoder settings for some input TS.*

- void `DCM::DeviceControl::SetDefaultRule_FEC_Dec` (in `IPS_Ref_t RefPhys`, in `InTS_FEC_Dec_DefRuleSetting_t FEC_Dec_DefRuleSetting`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set FEC Dec default rule settings to be used for all InTS without FEC settings Defaults are attached to a (logical) port.*

- void `DCM::DeviceControl::GetDefaultRule_FEC_Dec` (in `IPS_Ref_t RefPhys`, out `InTS_FEC_Dec_DefRuleSetting_t FEC_Dec_DefRuleSetting`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get FEC Dec default rule settings to be used for all InTS without FEC settings Defaults are attached to a (logical) port.*

- void `DCM::DeviceControl::InTS_FEC_Dec_Get_Statistics` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`, out `InTS_FEC_Dec_Statistics_List_t InTS_FEC_Dec_Statistics_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get FEC Dec statistics for a list of input TS.*

- void `DCM::DeviceControl::InTS_FEC_Dec_Reset_Statistics` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Reset the FEC Dec statistics for a list of input TS.*

- void `DCM::DeviceControl::InTS_FEC_Dec_Get_Status` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`, out `InTS_FEC_Dec_Status_List_t InTS_FEC_Dec_Status_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the FEC Dec status for a list of input TS.*

- void `DCM::DeviceControl::RTP_ReorderBufferSize_Set` (in unsigned short Board, in unsigned long Size) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the RTP reorder buffer size for all input TSs configured in RTP reorder mode.*

- void `DCM::DeviceControl::RTP_ReorderBufferSize_Get` (in unsigned short Board, out unsigned long Size) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the RTP reorder buffer size (of all input TSs configured in RTP reorder mode)*

### 8.44.1 Detailed Description

This contains types, enums and methods to configure the FEC decoder part of the device.

### 8.44.2 Typedef Documentation

#### 8.44.2.1 typedef sequence<InTS\_FEC\_Dec\_Setting\_t> DCM::DeviceControl::InTS\_FEC\_Dec\_Setting\_List\_t

A sequence of [InTS\\_FEC\\_Dec\\_Setting\\_t](#) entries.

Definition at line 19135 of file DCM.idl.

#### 8.44.2.2 typedef sequence< InTS\_FEC\_Dec\_Statistics\_t > DCM::DeviceControl::InTS\_FEC\_Dec\_Statistics\_List\_t

A sequence of [InTS\\_FEC\\_Dec\\_Statistics\\_t](#) entries.

Definition at line 19172 of file DCM.idl.

#### 8.44.2.3 typedef sequence< InTS\_FEC\_Dec\_Status\_t > DCM::DeviceControl::InTS\_FEC\_Dec\_Status\_List\_t

A sequence of [InTS\\_FEC\\_Dec\\_Status\\_t](#) entries.

Definition at line 19195 of file DCM.idl.

### 8.44.3 Enumeration Type Documentation

#### 8.44.3.1 enum DCM::DeviceControl::eFECDecMode

Input mode for FEC decoder.

Enumerator:

*eFEC\_DEC\_DISABLED* no FEC decoding  
*eFEC\_DEC\_1D\_MODE* single FEC decoding mode  
*eFEC\_DEC\_2D\_MODE* dual FEC decoding mode  
*eFEC\_RTP\_REORDER\_ONLY* perform only packet reordering

Definition at line 19110 of file DCM.idl.

#### 8.44.3.2 enum DCM::DeviceControl::eFECIncrScheme

FEC streamslicrement scheme for default settings (increase IP or UDP)

Enumerator:

*eUDP\_OFFSET* increase UDP port for row/col FEC  
*eIP\_OFFSET* increase IP address for row/col FEC

Definition at line 19138 of file DCM.idl.

## 8.44.4 Function Documentation

**8.44.4.1** void DCM::DeviceControl::GetDefaultRule\_FEC\_Dec ( in IPS\_Ref\_t *RefPhys*, out InTS\_FEC\_Dec\_DefRuleSetting\_t *FEC\_Dec\_DefRuleSetting* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get FEC Dec default rule settings to be used for all InTS without FEC settings Defaults are attached to a (logical) port.

## Parameters

|     |                               |                                                    |
|-----|-------------------------------|----------------------------------------------------|
| in  | <i>RefPhys</i>                | The BoardNr and PortNr you want information about. |
| out | <i>FEC_Dec_DefRuleSetting</i> | The defaults                                       |

## Exceptions

|                       |                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones or no FEC board present.                                                |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• <i>RefPhys</i> does not exist (or is a backup port)</li> </ul> |

**8.44.4.2** void DCM::DeviceControl::InTS\_FEC\_Dec\_DeL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Delete the FEC decoder settings for some input TS.

## Parameters

|    |                  |                                                                  |
|----|------------------|------------------------------------------------------------------|
| in | <i>RefPhys</i>   | The BoardNr and PortNr of which parameters need to be changed.   |
| in | <i>RefTsList</i> | List of Referenced input TS for which to delete the FEC settings |

## Exceptions

|                       |                                                                                                                                                                          |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When board is not a Gbe board or an IP Video Gateway board, or when no FEC board present on a GbE board.                                                                 |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• <i>RefPhys</i> does not exist (or is a backup port)</li> <li>• <i>RefTs</i> does not match <i>RefPhys</i></li> </ul> |
| <i>LicenseError</i>   | When FEC is default enabled and no more FEC licenses available anymore.                                                                                                  |

**8.44.4.3** void DCM::DeviceControl::InTS\_FEC\_Dec\_Get\_Statistics ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out InTS\_FEC\_Dec\_Statistics\_List\_t *InTS\_FEC\_Dec\_Statistics\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get FEC Dec statistics for a list of input TS.

**Parameters**

|    |                                     |                                                    |
|----|-------------------------------------|----------------------------------------------------|
| in | <i>RefPhys</i>                      | The BoardNr and PortNr you want information about. |
| in | <i>RefTsList</i>                    | Identifies the input TS.                           |
| in | <i>InTS_FEC_Dec_Statistics_List</i> | List of RefTs/ FecDecStat pairs                    |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When board is not a Gbe board or an IP Video Gateway board, or when no FEC board present on a GbE board. |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefTSIn does not exist</li> </ul>                    |

**8.44.4.4** void DCM::DeviceControl::InTS\_FEC\_Dec\_Get\_Status ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out InTS\_FEC\_Dec\_Status\_List\_t *InTS\_FEC\_Dec\_Status\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the FEC Dec status for a list of input TS.

**Parameters**

|    |                                 |                                                    |
|----|---------------------------------|----------------------------------------------------|
| in | <i>RefPhys</i>                  | The BoardNr and PortNr you want information about. |
| in | <i>RefTsList</i>                | Identifies the input TS.                           |
| in | <i>InTS_FEC_Dec_Status_List</i> |                                                    |

**Exceptions**

|                       |                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When board is not a Gbe board or an IP Video Gateway board, or when no FEC board present on a GbE board.                      |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefTSIn does not exist</li> <li>• RefTs does not match RefPhys</li> </ul> |

**8.44.4.5** void DCM::DeviceControl::InTS\_FEC\_Dec\_GetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out InTS\_FEC\_Dec\_Setting\_List\_t *InTS\_FEC\_Dec\_Setting\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get FEC decoder settings for some input TS.

**Parameters**

|     |                                  |                                                                                                               |
|-----|----------------------------------|---------------------------------------------------------------------------------------------------------------|
| in  | <i>RefPhys</i>                   | The BoardNr and PortNr you want information about.                                                            |
| in  | <i>RefTsList</i>                 | List of Referenced input TS for which to return the FEC Dec Settings. Empty list=all InTs attached to RefPhys |
| out | <i>InTS_FEC_Dec_Setting_List</i> | List of RefTsIn/ FecDecSet pairs                                                                              |

**Exceptions**

|                       |                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When board is not a Gbe board or an IP Video Gateway board, or when no FEC board present on a GbE board.                                            |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• RefTs does not match RefPhys</li> </ul> |

**8.44.4.6** void DCM::DeviceControl::InTS\_FEC\_Dec\_Reset\_Statistics ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTs\_List\_t *RefTsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Reset the FEC Dec statistics for a list of input TS.

**Parameters**

|    |                  |                                                    |
|----|------------------|----------------------------------------------------|
| in | <i>RefPhys</i>   | The BoardNr and PortNr you want information about. |
| in | <i>RefTsList</i> | Identifies the input TS.                           |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When board is not a Gbe board or an IP Video Gateway board, or when no FEC board present on a GbE board. |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefTSIn does not exist</li> </ul>                    |

**8.44.4.7** void DCM::DeviceControl::InTS\_FEC\_Dec\_SetL ( in IPS\_Ref\_t *RefPhys*, in InTS\_FEC\_Dec\_Setting\_List\_t *InTS\_FEC\_Dec\_Setting\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set FEC decoder settings for some input TS.

**Parameters**

|    |                                  |                                                                |
|----|----------------------------------|----------------------------------------------------------------|
| in | <i>RefPhys</i>                   | The BoardNr and PortNr of which parameters need to be changed. |
| in | <i>InTS_FEC_Dec_Setting_List</i> | List of RefTsIn/ FecDecSet pairs                               |

**Exceptions**

|                       |                                                                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When board is not a Gbe board or an IP Video Gateway board, or when no FEC board present on a GbE board.                                                                   |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• <a href="#">InTS_FEC_Dec_Setting_t</a> out of range</li> </ul> |
| <i>LicenseError</i>   | When FEC is enabled and no more FEC licenses available anymore.                                                                                                            |

**8.44.4.8** void DCM::DeviceControl::RTP\_ReorderBufferSize\_Get ( in unsigned short *Board*, out unsigned long *Size* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the RTP reorder buffer size (of all input TSs configured in RTP reorder mode)

#### Parameters

|     |                |                          |
|-----|----------------|--------------------------|
| in  | <i>Board,:</i> | The board number         |
| out | <i>Size,:</i>  | The size of the buffers. |

#### Exceptions

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones or no FEC board present. |
|-----------------------|---------------------------------------------------------------------|

**8.44.4.9** void DCM::DeviceControl::RTP\_ReorderBufferSize\_Set ( in unsigned short *Board*, in unsigned long *Size* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the RTP reorder buffer size for all input TSs configured in RTP reorder mode.

#### Parameters

|    |                |                                                               |
|----|----------------|---------------------------------------------------------------|
| in | <i>Board,:</i> | The board number                                              |
| in | <i>Size,:</i>  | The new size of the buffers. Size must be between 16 and 256. |

#### Exceptions

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones or no FEC board present. |
|-----------------------|---------------------------------------------------------------------|

**8.44.4.10** void DCM::DeviceControl::SetDefaultRule\_FEC\_Dec ( in IPS\_Ref\_t *RefPhys*, in InTS\_FEC\_Dec\_DefRuleSetting\_t *FEC\_Dec\_DefRuleSetting* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set FEC Dec default rule settings to be used for all InTS without FEC settings Defaults are attached to a (logical) port.

#### Parameters

|    |                               |                                                                |
|----|-------------------------------|----------------------------------------------------------------|
| in | <i>RefPhys</i>                | The BoardNr and PortNr of which parameters need to be changed. |
| in | <i>FEC_Dec_DefRuleSetting</i> | The defaults                                                   |

#### Exceptions

|                       |                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones or no FEC board present.                                                                                        |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• FEC_Dec_DefRuleSetting out of range</li> </ul> |

## 8.45 FEC Encoder

This contains types, enums and methods to configure the FEC encoder part of the device.

Collaboration diagram for FEC Encoder:



### Classes

- struct [DCM::DeviceControl::FEC\\_Enc\\_Setting\\_t](#)  
*FEC encoder settings.*
- struct [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Setting\\_t](#)  
*FEC encoder settings for specific TS.*
- struct [DCM::DeviceControl::FEC\\_Enc\\_Setting\\_V2\\_t](#)  
*FEC encoder settings.*
- struct [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_t](#)  
*FEC encoder settings for specific TS.*
- struct [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_DefSetting\\_t](#)  
*Default FEC encoder settings (to be applied for new TS's)*
- struct [DCM::DeviceControl::FEC\\_Enc\\_ErrorGen\\_t](#)  
*FEC error generation parameters.*
- struct [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_ErrorGen\\_t](#)  
*FEC error generation for specific TS.*
- struct [DCM::DeviceControl::FEC\\_Enc\\_Overhead\\_t](#)  
*Bitrate overhead, due to FEC encoding.*
- struct [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Overhead\\_t](#)  
*Bitrate overhead for specific TS.*

### Typedefs

- typedef sequence < [OutTS\\_FEC\\_Enc\\_Setting\\_t](#) > [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Setting\\_List\\_t](#)  
*A sequence of [OutTS\\_FEC\\_Enc\\_Setting\\_t](#) entries.*
- typedef sequence < [OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_t](#) > [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_List\\_t](#)  
*A sequence of [OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_t](#) entries.*
- typedef sequence < [OutTS\\_FEC\\_Enc\\_Overhead\\_t](#) > [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Overhead\\_List\\_t](#)  
*A sequence of [OutTS\\_FEC\\_Enc\\_Overhead\\_t](#) entries.*

## Enumerations

- enum `DCM::DeviceControl::eFECEncMode` { `DCM::DeviceControl::eFEC_ENC_DISABLED`, `DCM::DeviceControl::eFEC_ENC_1D_MODE`, `DCM::DeviceControl::eFEC_ENC_2D_MODE` }

*Output mode for FEC encoder.*

- enum `DCM::DeviceControl::eFECSendingArrangement` { `DCM::DeviceControl::ePRO_MPEG_COP3_ANNEX_B`, `DCM::DeviceControl::ePRO_MPEG_COP3_ANNEX_A` }

*FEC linearity for encoder.*

- enum `DCM::DeviceControl::eFECErrorMode` { `DCM::DeviceControl::eFEC_ERROR_GEN_DISABLED`, `DCM::DeviceControl::eFEC_ERROR_GEN_SINGLE_BURST`, `DCM::DeviceControl::eFEC_ERROR_GEN_CONTINUOUS` }

*Mode for FEC error generation.*

## Functions

- void `DCM::DeviceControl::OutTS_FEC_Enc_SetL` (in `IPS_Ref_t RefPhys`, in `OutTS_FEC_Enc_Setting_List_t OutTS_FEC_Enc_Setting_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set FEC encoder settings for some output TS.*

- void `DCM::DeviceControl::OutTS_FEC_Enc_GetL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`, out `OutTS_FEC_Enc_Setting_List_t OutTS_FEC_Enc_Setting_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get FEC encoder settings for some output TS.*

- void `DCM::DeviceControl::OutTS_FEC_Enc_V2_SetL` (in `IPS_Ref_t RefPhys`, in `OutTS_FEC_Enc_Setting_V2_List_t OutTS_FEC_Enc_Setting_V2_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*For IPGW.*

- void `DCM::DeviceControl::OutTS_FEC_Enc_V2_GetL` (in `IPS_Ref_t RefPhys`, in `IPS_RefTS_List_t RefTsList`, out `OutTS_FEC_Enc_Setting_V2_List_t OutTS_FEC_Enc_Setting_V2_List`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void `DCM::DeviceControl::SetDefault_FEC_Enc` (in `IPS_Ref_t RefPhys`, in `OutTS_FEC_Enc_DefSetting_t FEC_Enc_DefSetting`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set default FEC Enc settings to be used for new OutTS.*

- void `DCM::DeviceControl::GetDefault_FEC_Enc` (in `IPS_Ref_t RefPhys`, out `OutTS_FEC_Enc_DefSetting_t FEC_Enc_DefSetting`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get default FEC Enc settings that are used for new OutTS.*

- void `DCM::DeviceControl::SetErrorGen_FEC_Enc` (in `IPS_RefTS_t RefTS`, in `eFECErrorMode - ErrorMode`, in unsigned short `NrGoodPackets`, in unsigned short `NrErrorPackets`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set FEC Error generator mode for OutTS.*

- void `DCM::DeviceControl::SetErrorGen_FEC_Enc_V2` (in `IPS_RefTS_t RefTS`, in `OutTS_FEC_Enc_ErrorGen_t OutTS_FEC_Enc_ErrorGen`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set FEC Error generator mode for OutTS.*

- void `DCM::DeviceControl::GetErrorGen_FEC_Enc` (in `IPS_Ref_t RefPhys`, out `OutTS_FEC_Enc_ErrorGen_t OutTS_FEC_Enc_ErrorGen`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the active FEC Error generator mode.*



- void [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Overhead\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_FEC\\_Enc\\_Overhead\\_List\\_t](#) OutTS\_FEC\_Enc\_Overhead\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get FEC encoder Row/Col overhead for some OutTS.*

### 8.45.1 Detailed Description

This contains types, enums and methods to configure the FEC encoder part of the device.

### 8.45.2 Typedef Documentation

#### 8.45.2.1 typedef sequence<[OutTS\\_FEC\\_Enc\\_Overhead\\_t](#)> [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Overhead\\_List\\_t](#)

A sequence of [OutTS\\_FEC\\_Enc\\_Overhead\\_t](#) entries.

Definition at line 19466 of file DCM.idl.

#### 8.45.2.2 typedef sequence<[OutTS\\_FEC\\_Enc\\_Setting\\_t](#)> [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Setting\\_List\\_t](#)

A sequence of [OutTS\\_FEC\\_Enc\\_Setting\\_t](#) entries.

Definition at line 19384 of file DCM.idl.

#### 8.45.2.3 typedef sequence<[OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_t](#)> [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_List\\_t](#)

A sequence of [OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_t](#) entries.

Definition at line 19405 of file DCM.idl.

### 8.45.3 Enumeration Type Documentation

#### 8.45.3.1 enum [DCM::DeviceControl::eFECEncMode](#)

Output mode for FEC encoder.

Enumerator:

***eFEC\_ENC\_DISABLED*** no FEC encoding  
***eFEC\_ENC\_1D\_MODE*** single FEC stream mode  
***eFEC\_ENC\_2D\_MODE*** dual FEC stream mode

Definition at line 19351 of file DCM.idl.

#### 8.45.3.2 enum [DCM::DeviceControl::eFECErrorMode](#)

Mode for FEC error generation.

Enumerator:

***eFEC\_ERROR\_GEN\_DISABLED*** no error generation  
***eFEC\_ERROR\_GEN\_SINGLE\_BURST*** generate single burst error

***eFEC\_ERROR\_GEN\_CONTINUOUS*** generate continuous error

Definition at line 19428 of file DCM.idl.

#### 8.45.3.3 enum DCM::DeviceControl::eFECSendingArrangement

FEC linearity for encoder.

Enumerator:

***ePRO\_MPEG\_COP3\_ANNEX\_B*** offset scheme as in annex B of Pro MPEG COP 3 standard

***ePRO\_MPEG\_COP3\_ANNEX\_A*** offset scheme as in annex A of Pro MPEG COP 3 standard

Definition at line 19359 of file DCM.idl.

#### 8.45.4 Function Documentation

**8.45.4.1 void DCM::DeviceControl::GetDefault\_FEC\_Enc ( in IPS\_Ref\_t *RefPhys*, out OutTS\_FEC\_Enc\_DefSetting\_t *FEC\_Enc\_DefSetting* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Get default FEC Enc settings that are used for new OutTS.

Defaults are attached to a (logical) port.

##### Parameters

|     |                           |                                            |
|-----|---------------------------|--------------------------------------------|
| in  | <i>RefPhys</i>            | identifies the port (no wildcards allowed) |
| out | <i>FEC_Enc_DefSetting</i> | the default settings for FEC encoder       |

##### Exceptions

|                       |                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, ASI, ...)                                                        |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• <i>RefPhys</i> does not exist (or is a backup port)</li> </ul> |

**8.45.4.2 void DCM::DeviceControl::GetErrorGen\_FEC\_Enc ( in IPS\_Ref\_t *RefPhys*, out OutTS\_FEC\_Enc\_ErrorGen\_t *OutTS\_FEC\_Enc\_ErrorGen* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Get the active FEC Error generator mode.

##### Parameters

|     |                               |                                                |
|-----|-------------------------------|------------------------------------------------|
| in  | <i>RefPhys</i>                | Board and port number. Port number is ignored. |
| out | <i>OutTS_FEC_Enc_ErrorGen</i> | The FEC error generation parameters            |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When board is not a Gbe board or an IP Video Gateway board, or when no FEC board present on a GbE board. |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• No FEC board is present</li> </ul>                   |

**8.45.4.3** void DCM::DeviceControl::OutTS\_FEC\_Enc\_GetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out OutTS\_FEC\_Enc\_Setting\_List\_t *OutTS\_FEC\_Enc\_Setting\_List* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get FEC encoder settings for some output TS.

**Parameters**

|     |                                   |                                                                                                                   |
|-----|-----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| in  | <i>RefPhys</i>                    | the port the OutTS are attached to                                                                                |
| in  | <i>RefTsList</i>                  | list of references of OutTS for which to return the FEC ENC Settings (Empty list = all OutTS attached to RefPhys) |
| out | <i>OutTS_FEC_Enc_Setting_List</i> | list of FeTSOut/FecEncSett pairs                                                                                  |

**Exceptions**

|                       |                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When board is not a Gbe board or an IP Video Gateway board, or when no FEC board present on a GbE board.                                               |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• RefTSOut does not match RefPhys</li> </ul> |

**8.45.4.4** void DCM::DeviceControl::OutTS\_FEC\_Enc\_Overhead\_GetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out OutTS\_FEC\_Enc\_Overhead\_List\_t *OutTS\_FEC\_Enc\_Overhead\_List* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get FEC encoder Row/Col overhead for some OutTS.

**Parameters**

|    |                                    |                                                                                                                    |
|----|------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>                     | the port the OutTS are attached to                                                                                 |
| in | <i>RefTsList</i>                   | list of references of OutTS for which to return the FEC ENC overhead. (Empty list = all OutTS attached to RefPhys) |
| in | <i>OutTS_FEC_Enc_Overhead_List</i> | list of RefTSOut/FecEncOverhead pairs                                                                              |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When board is not a Gbe board or an IP Video Gateway board, or when no FEC board present on a GbE board. |
|-----------------------|----------------------------------------------------------------------------------------------------------|

|                       |                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• RefTs does not match RefPhys</li> </ul> |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

**8.45.4.5** void DCM::DeviceControl::OutTS\_FEC\_Enc\_SetL ( in IPS\_Ref\_t *RefPhys*, in OutTS\_FEC\_Enc\_Setting\_List\_t *OutTS\_FEC\_Enc\_Setting\_List* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set FEC encoder settings for some output TS.

#### Parameters

|    |                                   |                                    |
|----|-----------------------------------|------------------------------------|
| in | <i>RefPhys</i>                    | the port the OutTS are attached to |
| in | <i>OutTS_FEC_Enc_Setting_List</i> | list of RefTSOut/FecEncSett pairs  |

#### Exceptions

|                       |                                                                                                                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When board is not a Gbe board or an IP Video Gateway board, or when no FEC board present on a GbE board.                                                                                                                                                                                                     |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• RefTSOut does not match RefPhys</li> <li>• FEC_Enc_Settings out of range</li> <li>• Enabling FEC encoding while RTP is disabled</li> <li>• Enabling FEC encoding while VBR is enabled</li> </ul> |
| <i>LicenseError</i>   | When FEC is enabled and no more FEC licenses available anymore.                                                                                                                                                                                                                                              |

**8.45.4.6** void DCM::DeviceControl::OutTS\_FEC\_Enc\_V2\_GetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out OutTS\_FEC\_Enc\_Setting\_V2\_List\_t *OutTS\_FEC\_Enc\_Setting\_V2\_List* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

**8.45.4.7** void DCM::DeviceControl::OutTS\_FEC\_Enc\_V2\_SetL ( in IPS\_Ref\_t *RefPhys*, in OutTS\_FEC\_Enc\_Setting\_V2\_List\_t *OutTS\_FEC\_Enc\_Setting\_V2\_List* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

For IPGW.

Similar to the "V1" but without socket parameters. These socket parameters are then configured with [OutputFecGBE\\_ChangeL\(\)](#).

**Version**

Release 8.9

**8.45.4.8** void DCM::DeviceControl::SetDefault\_FEC\_Enc ( in IPS\_Ref\_t *RefPhys*, in OutTS\_FEC\_Enc\_DefSetting\_t *FEC\_Enc\_DefSetting* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set default FEC Enc settings to be used for new OutTS.

Defaults are attached to a (logical) port.

**Parameters**

|    |                           |                                            |
|----|---------------------------|--------------------------------------------|
| in | <i>RefPhys</i>            | identifies the port (no wildcards allowed) |
| in | <i>FEC_Enc_DefSetting</i> | the default settings for FEC encoder       |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, ASI, ...)                                                                                                                                                                                                                                                       |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• <i>RefPhys</i> does not exist (or is a backup port)</li> <li>• <i>FEC_Enc_DefSetting</i> out of range</li> <li>• Default enabling FEC encoding while RTP is default disabled</li> <li>• Default enabling FEC encoding while VBR is default enabled</li> </ul> |

**8.45.4.9** void DCM::DeviceControl::SetErrorGen\_FEC\_Enc ( in IPS\_RefTS\_t *RefTS*, in eFECErrorMode *ErrorMode*, in unsigned short *NrGoodPackets*, in unsigned short *NrErrorPackets* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set FEC Error generator mode for OutTS.

**Parameters**

|    |                       |                                              |
|----|-----------------------|----------------------------------------------|
| in | <i>RefTS</i>          | the location of the TS (board, port and ref) |
| in | <i>ErrorMode</i>      | the error mode for FEC error generator       |
| in | <i>NrGoodPackets</i>  | number of good packets (range 1..65536)      |
| in | <i>NrErrorPackets</i> | number of error packets (range 1..63)        |

**Remarks**

This setting is not saved to flash.

Starting error generation on another TS will automatically stop the pending error generation.

**Exceptions**

|                       |                                                                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, ASI, ...)                                                                                                                                                                   |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• FECErrorMode out of range</li> <li>• NrGoodPackets out of range</li> <li>• NrErrorPackets out of range</li> </ul> |

**8.45.4.10** void DCM::DeviceControl::SetErrorGen\_FEC\_Enc\_V2 ( in IPS\_RefTS\_t *RefTS*,  
 in OutTS\_FEC\_Enc\_ErrorGen\_t *OutTS\_FEC\_Enc\_ErrorGen* ) raises (TimeOut,  
 OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set FEC Error generator mode for OutTS.

V2 for [DCM](#) Gateway.

**Parameters**

|    |                               |                                              |
|----|-------------------------------|----------------------------------------------|
| in | <i>RefTS</i>                  | the location of the TS (board, port and ref) |
| in | <i>OutTS_FEC_Enc_ErrorGen</i> | The FEC error generation parameters          |

**Remarks**

This setting is not saved to flash.

Starting error generation on another TS will automatically stop the pending error generation.

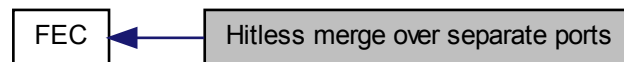
**Exceptions**

|                       |                                                                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When board is not a Gbe board or an IP Video Gateway board, or when no FEC board present on a GbE board.                                                                                                                      |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• RefPhys does not exist (or is a backup port)</li> <li>• FECErrorMode out of range</li> <li>• NrGoodPackets out of range</li> <li>• NrErrorPackets out of range</li> </ul> |

## 8.46 Hitless merge over separate ports

This contains types, enums and methods to configure Hitless Merge over separate ports.

Collaboration diagram for Hitless merge over separate ports:



### Classes

- struct [DCM::DeviceControl::HitlessMergeSetting\\_t](#)  
*Hitless merge input TS settings.*
- struct [DCM::DeviceControl::InTS\\_HitlessMergeSetting\\_t](#)  
*Hitless merge settings for specific TS.*

### Typedefs

- typedef sequence < [InTS\\_HitlessMergeSetting\\_t](#) > [DCM::DeviceControl::InTS\\_HitlessMergeSetting-List\\_t](#)  
*A sequence of [InTS\\_HitlessMergeSetting\\_t](#) entries.*

### Enumerations

- enum [DCM::DeviceControl::enHitlessMergeMode\\_t](#) { [DCM::DeviceControl::eHitlessMergeMode\\_FollowBoardDefault](#), [DCM::DeviceControl::eHitlessMergeMode\\_Disabled](#), [DCM::DeviceControl::eHitlessMergeMode\\_EnabledSameUDP\\_Socket](#), [DCM::DeviceControl::eHitlessMergeMode\\_EnabledOtherUDP\\_Socket](#), [DCM::DeviceControl::eHitlessMergeMode\\_Reserved1](#), [DCM::DeviceControl::eHitlessMergeMode\\_Reserved2](#), [DCM::DeviceControl::eHitlessMergeMode\\_Reserved3](#), [DCM::DeviceControl::eHitlessMergeMode\\_Reserved4](#) }  
*Hitless merge mode for input TS.*
- enum [DCM::DeviceControl::enHitlessMergeDefaultMode\\_t](#) { [DCM::DeviceControl::eHitlessMergeDefaultMode\\_Disabled](#), [DCM::DeviceControl::eHitlessMergeDefaultMode\\_EnabledSameUDP\\_Socket](#), [DCM::DeviceControl::eHitlessMergeDefaultMode\\_Reserved1](#), [DCM::DeviceControl::eHitlessMergeDefaultMode\\_Reserved2](#), [DCM::DeviceControl::eHitlessMergeDefaultMode\\_Reserved3](#), [DCM::DeviceControl::eHitlessMergeDefaultMode\\_Reserved4](#) }

### Functions

- void [DCM::DeviceControl::GetHitlessMergeModeEnabled](#) (in unsigned short BoardNr, out boolean HitlessMergeEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the Hitless Merge over Separate Port Pairs Enabled setting of an GbE Board.*

- void [DCM::DeviceControl::SetHitlessMergeModeEnabled](#) (in unsigned short BoardNr, in boolean - HitlessMergeEnable) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Set the Hitless Merge over Separate Port Pairs Enabled setting of an GbE Board.*
- void [DCM::DeviceControl::InTS\\_HitlessMergeSetL](#) (in unsigned short BoardNr, in InTS\_HitlessMergeSettingList\_t InTS\_HitlessMergeSettingList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed, LicenseError)  
*Set Hitless merge settings for some input TS.*
- void [DCM::DeviceControl::InTS\\_HitlessMergeGetL](#) (in IPS\_Ref\_t RefPhys, in IPS\_RefTS\_List\_t RefTsList, out InTS\_HitlessMergeSettingList\_t InTS\_HitlessMergeSettingList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get Hitless merge settings for some input TS.*
- void [DCM::DeviceControl::GetDefaultRule\\_HM\\_Mode](#) (in unsigned short BoardNr, out enHitlessMergeDefaultMode\_t HitlessMergeDefaultMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the Hitless Merge default mode for hitless merge input TSs of an GbE Board.*
- void [DCM::DeviceControl::SetDefaultRule\\_HM\\_Mode](#) (in unsigned short BoardNr, in enHitlessMergeDefaultMode\_t HitlessMergeDefaultMode) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Set the Hitless Merge default mode for hitless merge input TSs of an GbE Board.*
- void [DCM::DeviceControl::GetDefaultRule\\_HM\\_PacketWindow](#) (in unsigned short BoardNr, out unsigned short HitlessMergeDefaultPacketWindow) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the Hitless Merge default packet window for hitless merge input TSs of an GbE Board.*
- void [DCM::DeviceControl::SetDefaultRule\\_HM\\_PacketWindow](#) (in unsigned short BoardNr, in unsigned short HitlessMergeDefaultPacketWindow) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Set the Hitless Merge default packet window for hitless merge input TSs of an GbE Board.*

### 8.46.1 Detailed Description

This contains types, enums and methods to configure Hitless Merge over separate ports.

### 8.46.2 Typedef Documentation

#### 8.46.2.1 typedef sequence<InTS\_HitlessMergeSetting\_t> DCM::DeviceControl::InTS\_HitlessMergeSettingList\_t

A sequence of [InTS\\_HitlessMergeSetting\\_t](#) entries.

Definition at line 19688 of file DCM.idl.

### 8.46.3 Enumeration Type Documentation

#### 8.46.3.1 enum DCM::DeviceControl::enHitlessMergeDefaultMode\_t

Enumerator:

- eHitlessMergeDefaultMode\_Disabled* default setting: no hitless merge over separate port pairs
- eHitlessMergeDefaultMode\_EnabledSameUDP\_Socket* default setting: hitless merge over separate port pairs, backup stream has same IP-UDP as main



*eHitlessMergeDefaultMode\_Reserved1* Reserved for future use.

*eHitlessMergeDefaultMode\_Reserved2* Reserved for future use.

*eHitlessMergeDefaultMode\_Reserved3* Reserved for future use.

*eHitlessMergeDefaultMode\_Reserved4* Reserved for future use.

Definition at line 19661 of file DCM.idl.

#### 8.46.3.2 enum DCM::DeviceControl::enHitlessMergeMode\_t

Hitless merge mode for input TS.

Enumerator:

*eHitlessMergeMode\_FollowBoardDefault* follow the board default settings

*eHitlessMergeMode\_Disabled* no hitless merge over separate port pairs

*eHitlessMergeMode\_EnabledSameUDP\_Socket* hitless merge over separate port pairs, backup stream has same IP-UDP as main

*eHitlessMergeMode\_EnabledOtherUDP\_Socket* hitless merge over separate port pairs, backup stream has other IP-UDP as main

*eHitlessMergeMode\_Reserved1* Reserved for future use.

*eHitlessMergeMode\_Reserved2* Reserved for future use.

*eHitlessMergeMode\_Reserved3* Reserved for future use.

*eHitlessMergeMode\_Reserved4* Reserved for future use.

Definition at line 19649 of file DCM.idl.

#### 8.46.4 Function Documentation

**8.46.4.1** void DCM::DeviceControl::GetDefaultRule\_HM\_Mode ( in unsigned short *BoardNr*, out enHitlessMergeDefaultMode\_t *HitlessMergeDefaultMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the Hitless Merge default mode for hitless merge input TSs of an GbE Board.

Parameters

|     |                                |                                                           |
|-----|--------------------------------|-----------------------------------------------------------|
| in  | <i>BoardNr</i>                 |                                                           |
| out | <i>HitlessMergeDefaultMode</i> | Indicates the board level default mode for hitless merge. |

Exceptions

|                       |                                              |
|-----------------------|----------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.   |
| <i>OpNotAllowed</i>   | Not logged on.                               |
| <i>OpNotSupported</i> | When called for non-GbE boards.              |
| <i>OpNotSucceeded</i> | When BoardNr refers to a non-existing board. |

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**8.46.4.2** void DCM::DeviceControl::GetDefaultRule\_HM\_PacketWindow ( in unsigned short *BoardNr*, out unsigned short *HitlessMergeDefaultPacketWindow* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the Hitless Merge default packet window for hitless merge input TSs of an GbE Board.

## Parameters

|     |                                        |                                                                    |
|-----|----------------------------------------|--------------------------------------------------------------------|
| in  | <i>BoardNr</i>                         |                                                                    |
| out | <i>HitlessMergeDefaultPacketWindow</i> | Indicates the board level default packet window for hitless merge. |

## Exceptions

|                       |                                              |
|-----------------------|----------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.   |
| <i>OpNotAllowed</i>   | Not logged on.                               |
| <i>OpNotSupported</i> | When called for non-GbE boards.              |
| <i>OpNotSucceeded</i> | When BoardNr refers to a non-existing board. |

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**8.46.4.3** void DCM::DeviceControl::GetHitlessMergeModeEnabled ( in unsigned short *BoardNr*, out boolean *HitlessMergeEnabled* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the Hitless Merge over Separate Port Pairs Enabled setting of an GbE Board.

## Parameters

|     |                            |                                                                       |
|-----|----------------------------|-----------------------------------------------------------------------|
| in  | <i>BoardNr</i>             |                                                                       |
| out | <i>HitlessMergeEnabled</i> | Indicates whether Hitless Merge over separate ports is enabled or not |

## Exceptions

|                       |                                             |
|-----------------------|---------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.  |
| <i>OpNotAllowed</i>   | Not logged on.                              |
| <i>OpNotSupported</i> | When called for non-GbE boards.             |
| <i>OpNotSucceeded</i> | When BoardNr refers to a non-existing board |

## Version

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**8.46.4.4** void DCM::DeviceControl::InTS\_HitlessMergeGetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList*, out InTS\_HitlessMergeSettingList\_t *InTS\_HitlessMergeSettingList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get Hitless merge settings for some input TS.

## Parameters

|     |                                       |                                                                                                                      |
|-----|---------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| in  | <i>RefPhys</i>                        | The BoardNr and PortNr you want information about.                                                                   |
| in  | <i>RefTsList</i>                      | List of Referenced input TS for which to return the Hitless merge settings. Empty list=all InTs attached to RefPhys. |
| out | <i>InTS_Hitless-MergeSetting-List</i> | List of hitless merge settings for input TSs                                                                         |

## Exceptions

|                        |                                                                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>         | A timeout occurred during IIOP processing.                                                                                                                                                                                             |
| <i>OpNotAllowed</i>    | Not logged on.                                                                                                                                                                                                                         |
| <i>OpNotSupported</i>  | When called for non-GbE boards.                                                                                                                                                                                                        |
| <i>OpNotSucceeded</i>  | When RefPhys.BoardNr refers to a non-existing board.                                                                                                                                                                                   |
| <i>OperationFailed</i> | In case of <ul style="list-style-type: none"> <li>• Hitless merge is disabled</li> <li>• RefPhys does not exist (or is a backup port)</li> <li>• RefPhys is on the second port pair</li> <li>• RefTs does not match RefPhys</li> </ul> |

**8.46.4.5** void DCM::DeviceControl::InTS\_HitlessMergeSetL ( in unsigned short *BoardNr*, in InTS\_HitlessMergeSettingList\_t *InTS\_HitlessMergeSettingList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed, LicenseError)

Set Hitless merge settings for some input TS.

## Parameters

|    |                                       |                                                     |
|----|---------------------------------------|-----------------------------------------------------|
| in | <i>BoardNr</i>                        | The BoardNr of which parameters need to be changed. |
| in | <i>InTS_Hitless-MergeSetting-List</i> | List of hitless merge settings for input TSs        |

## Exceptions

|                       |                                              |
|-----------------------|----------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.   |
| <i>OpNotAllowed</i>   | Not logged on.                               |
| <i>OpNotSupported</i> | When called for non-GbE boards.              |
| <i>OpNotSucceeded</i> | When BoardNr refers to a non-existing board. |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | In case <ul style="list-style-type: none"> <li>• Hitless merge is disabled</li> <li>• RefPhys does not exist (or is a backup port)</li> <li>• RefPhys is on the second port pair</li> <li>• InTS_HitlessMergeSettingList contains nonexistent RefTSIn</li> <li>• InTs_HitlessMergeSettingList contains invalid hitless merge mode</li> <li>• InTs_HitlessMergeSettingList contains invalid UDP socket data when mode is eHitlessMergeMode_EnabledOtherUDP_Socket</li> </ul> |
| <i>LicenseError</i>    | When Hitless merge is enabled and no more FEC licenses available.                                                                                                                                                                                                                                                                                                                                                                                                           |

**Note**

Setting the Mode of a TS to eHitlessMergeMode\_FollowBoardDefault will effectively remove the TS level hitless merge settings for that stream.

**8.46.4.6** void DCM::DeviceControl::SetDefaultRule\_HM\_Mode ( in unsigned short *BoardNr*, in enHitlessMergeDefaultMode\_t *HitlessMergeDefaultMode* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set the Hitless Merge default mode for hitless merge input TSs of an GbE Board.

**Parameters**

|    |                                |                                                           |
|----|--------------------------------|-----------------------------------------------------------|
| in | <i>BoardNr</i>                 |                                                           |
| in | <i>HitlessMergeDefaultMode</i> | Indicates the board level default mode for hitless merge. |

**Exceptions**

|                        |                                              |
|------------------------|----------------------------------------------|
| <i>TimeOut</i>         | A timeout occurred during IIOP processing.   |
| <i>OpNotAllowed</i>    | Not logged on.                               |
| <i>OpNotSupported</i>  | When called for non-GbE boards.              |
| <i>OpNotSucceeded</i>  | When BoardNr refers to a non-existing board. |
| <i>OperationFailed</i> | When mode is out of range.                   |

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**8.46.4.7** void DCM::DeviceControl::SetDefaultRule\_HM\_PacketWindow ( in unsigned short *BoardNr*, in unsigned short *HitlessMergeDefaultPacketWindow* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set the Hitless Merge default packet window for hitless merge input TSs of an GbE Board.

**Parameters**

|    |                                        |                                                                    |
|----|----------------------------------------|--------------------------------------------------------------------|
| in | <i>BoardNr</i>                         |                                                                    |
| in | <i>HitlessMergeDefaultPacketWindow</i> | Indicates the board level default packet window for hitless merge. |

**Exceptions**

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <i>TimeOut</i>         | A timeout occurred during IIOP processing.                 |
| <i>OpNotAllowed</i>    | Not logged on.                                             |
| <i>OpNotSupported</i>  | When called for non-GbE boards.                            |
| <i>OpNotSucceeded</i>  | When BoardNr refers to a non-existing board                |
| <i>OperationFailed</i> | When packet window is smaller than 16, or higher than 250. |

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**8.46.4.8** void DCM::DeviceControl::SetHitlessMergeModeEnabled ( in unsigned short *BoardNr*, in boolean *HitlessMergeEnable* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set the Hitless Merge over Separate Port Pairs Enabled setting of an GbE Board.

**Parameters**

|    |                            |                                                          |
|----|----------------------------|----------------------------------------------------------|
| in | <i>BoardNr</i>             |                                                          |
| in | <i>HitlessMerge-Enable</i> | Indicates whether Hitless Merge should be enabled or not |

**Exceptions**

|                        |                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>         | A timeout occurred during IIOP processing.                                                                                     |
| <i>OpNotAllowed</i>    | Not logged on.                                                                                                                 |
| <i>OpNotSupported</i>  | When called for non-GbE boards.                                                                                                |
| <i>OpNotSucceeded</i>  | When BoardNr refers to a non-existing board.                                                                                   |
| <i>OperationFailed</i> | When enabling hitless merge while there are input streams which are already routed to an output on the second input port pair. |

**Note**

When hitless merge is being enabled, all FEC configurations will be removed. When hitless merge is being disabled, all hitless merge configuration will be removed.

When enabling hitless merge, the second port pair will become output only, when disabling hitless merge, the second port pair will become input/output again

**Version**

Release 11.10

## 8.47 Statistics

This module contains types, enums and methods related to statistics gathering.

Collaboration diagram for Statistics:



### Classes

- struct [DCM::DeviceControl::GbEFramesRecv\\_t](#)
- struct [DCM::DeviceControl::GbEFramesTrans\\_t](#)
- struct [DCM::DeviceControl::GbEStatisticsEntry\\_t](#)
- struct [DCM::DeviceControl::GbEPortStatsEntry\\_t](#)

### Typedefs

- typedef [GbEStatisticsEntry\\_t](#) [DCM::DeviceControl::GbEStatistics\\_t](#) [4]  
*Statistics for all 4 ports on a GbE board.*
- typedef sequence < [GbEPortStatsEntry\\_t](#) > [DCM::DeviceControl::GbEStatisticsEntryList\\_t](#)  
*A sequence of Statistics, one for each Gbe port on a board.*

### Functions

- void [DCM::DeviceControl::IPS\\_GBE\\_StatisticsReSet](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Reset statistics.*
- void [DCM::DeviceControl::IPS\\_GBE\\_StatisticsGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [GbEStatistics\\_t](#) Stats) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get statistics.*
- void [DCM::DeviceControl::IPS\\_GBE\\_RatesGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [GbEStatistics\\_t](#) Stats) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get statistics rates per second.*
- void [DCM::DeviceControl::IPS\\_GBE\\_StatisticsGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [GbEStatisticsEntryList\\_t](#) Stats) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get statistics as a list of [GbEStatisticsEntry\\_t](#).*
- void [DCM::DeviceControl::IPS\\_GBE\\_RatesGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [GbEStatisticsEntryList\\_t](#) Stats) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get statistics rates per second.*

### 8.47.1 Detailed Description

This module contains types, enums and methods related to statistics gathering.

### 8.47.2 Typedef Documentation

#### 8.47.2.1 typedef GbEStatisticsEntry\_t DCM::DeviceControl::GbEStatistics\_t[4]

Statistics for all 4 ports on a GbE board.

Definition at line 19909 of file DCM.idl.

#### 8.47.2.2 typedef sequence<GbEPortStatsEntry\_t> DCM::DeviceControl::GbEStatisticsEntryList\_t

A sequence of Statistics, one for each Gbe port on a board.

Definition at line 19916 of file DCM.idl.

### 8.47.3 Function Documentation

#### 8.47.3.1 void DCM::DeviceControl::IPS\_GBE\_RatesGet ( in IPS\_Ref\_t *RefPhys*, out GbEStatistics\_t *Stats* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get statistics rates per second.

Returned values are either since boot or since last call to this function.

#### Parameters

|     |                |                                           |
|-----|----------------|-------------------------------------------|
| in  | <i>RefPhys</i> | specifies the BoardNr. PortNr is ignored. |
| out | <i>Stats</i>   |                                           |

#### Exceptions

|                       |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, ASI,...).                                       |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (<i>RefPhys</i>).</li> </ul> |

**Deprecated** Use IPS\_GBE\_RatesGetL instead.

#### 8.47.3.2 void DCM::DeviceControl::IPS\_GBE\_RatesGetL ( in IPS\_Ref\_t *RefPhys*, out GbEStatisticsEntryList\_t *Stats* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get statistics rates per second.

Returned values are either since boot or since last call to this function.

#### Parameters

|     |                |                                           |
|-----|----------------|-------------------------------------------|
| in  | <i>RefPhys</i> | specifies the BoardNr. PortNr is ignored. |
| out | <i>Stats</i>   |                                           |

**Exceptions**

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE or IP adapter ones (Main, ASI,...).                  |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (RefPhys).</li> </ul> |

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**8.47.3.3** void DCM::DeviceControl::IPS\_GBE\_StatisticsGet ( in IPS\_Ref\_t *RefPhys*, out GbEStatistics\_t *Stats* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get statistics.

**Parameters**

|     |                |                                           |
|-----|----------------|-------------------------------------------|
| in  | <i>RefPhys</i> | specifies the BoardNr. PortNr is ignored. |
| out | <i>Stats</i>   |                                           |

**Exceptions**

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, ASI,...).                                |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (RefPhys).</li> </ul> |

**Deprecated** Use IPS\_GBE\_StatisticsGetL instead.

**8.47.3.4** void DCM::DeviceControl::IPS\_GBE\_StatisticsGetL ( in IPS\_Ref\_t *RefPhys*, out GbEStatisticsEntryList\_t *Stats* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get statistics as a list of [GbEStatisticsEntry\\_t](#).**Parameters**

|     |                |                                           |
|-----|----------------|-------------------------------------------|
| in  | <i>RefPhys</i> | specifies the BoardNr. PortNr is ignored. |
| out | <i>Stats</i>   |                                           |

**Exceptions**

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE or IP adapter ones (Main, ASI,...).                  |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (RefPhys).</li> </ul> |

**Version**

release 6.9



**8.47.3.5** void DCM::DeviceControl::IPS\_GBE\_StatisticsReSet ( in IPS\_Ref\_t *RefPhys* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Reset statistics.

#### Parameters

|    |                |                                          |
|----|----------------|------------------------------------------|
| in | <i>RefPhys</i> | specifies the BoardNr. PortNr is ignored |
|----|----------------|------------------------------------------|

#### Exceptions

|                       |                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, ASI,...).                              |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"><li>Invalid references (RefPhys).</li></ul> |

## 8.48 IGMPv2

This module contains types, enums and methods related to IGMPv2.

### Classes

- struct [DCM::DeviceControl::IGMPv2MulticastGroup\\_t](#)

### Typedefs

- typedef sequence < [IGMPv2MulticastGroup\\_t](#) > [DCM::DeviceControl::IGMPv2MulticastGroupList\\_t](#)  
*A sequence of [IGMPv2MulticastGroup\\_t](#).*

### Functions

- void [DCM::DeviceControl::IGMPv2JoinMulticastGroupL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IGMPv2MulticastGroupList\\_t](#) Groups) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Join zero or more multicast groups.*
- void [DCM::DeviceControl::IGMPv2LeaveMulticastGroupL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IGMPv2MulticastGroupList\\_t](#) Groups) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Leave zero or more multicast groups.*
- [IGMPv2MulticastGroupList\\_t](#) [DCM::DeviceControl::IGMPv2GetMulticastGroupL](#) (in [IPS\\_Ref\\_t](#) - RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the list with currently joined multicast groups.*
- void [DCM::DeviceControl::IGMPv2SetMulticastGroupL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IGMPv2MulticastGroupList\\_t](#) Groups) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Specify the multicast groups to be joined.*

#### 8.48.1 Detailed Description

This module contains types, enums and methods related to IGMPv2.

**Deprecated** Use the IGMPv3 calls, they also support IGMP protocol v2 (use Exclude filter with no members). These calls are scheduled for removal in v6.00

#### 8.48.2 Typedef Documentation

##### 8.48.2.1 typedef sequence<[IGMPv2MulticastGroup\\_t](#)> [DCM::DeviceControl::IGMPv2MulticastGroupList\\_t](#)

A sequence of [IGMPv2MulticastGroup\\_t](#).

Definition at line 20014 of file DCM.idl.

## 8.48.3 Function Documentation

## 8.48.3.1 IGMPv2MulticastGroupList\_t DCM::DeviceControl::IGMPv2GetMulticastGroupL ( in IPS\_Ref\_t RefPhys ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list with currently joined multicast groups.

## Parameters

|    |         |                       |
|----|---------|-----------------------|
| in | RefPhys | Board and portnumber. |
|----|---------|-----------------------|

## Returns

Requested list with multicast groups.

## Exceptions

|                |                                                                                               |
|----------------|-----------------------------------------------------------------------------------------------|
| TimeOut        | A timeout occurred during IIOP processing.                                                    |
| OpNotSucceeded | <ul style="list-style-type: none"> <li>IGMP Individual mode is enabled (see below)</li> </ul> |
| OpNotAllowed   | Not logged on.                                                                                |
| OpNotSupported | When called for a non-GbE board.                                                              |

## Note

If RefPhys.PortNr == 0xFFFF, information for all ports is returned.

## 8.48.3.2 void DCM::DeviceControl::IGMPv2JoinMulticastGroupL ( in IPS\_Ref\_t RefPhys, in IGMPv2MulticastGroupList\_t Groups ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Join zero or more multicast groups.

## Parameters

|    |         |                                                         |
|----|---------|---------------------------------------------------------|
| in | RefPhys | Board and port number to perform the join operation on. |
| in | Groups  | List of multicast groups to join.                       |

## Exceptions

|                |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TimeOut        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                                                                                             |
| OpNotSucceeded | In case of <ul style="list-style-type: none"> <li>Invalid references (Groups[i].RefPhys).</li> <li>Invalid multicast IP address (Groups[i].MulticastGroup).</li> <li>Inconsistency between RefPhys.BoardNr and Groups[i].RefPhys.BoardNr.</li> <li>Inconsistency between RefPhys.PortNr and Groups[i].RefPhys.PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>IGMP Individual mode is enabled (see below)</li> </ul> |
| OpNotAllowed   | Not logged on.                                                                                                                                                                                                                                                                                                                                                                                                         |
| OpNotSupported | When called for a non-GbE board.                                                                                                                                                                                                                                                                                                                                                                                       |

**8.48.3.3** void DCM::DeviceControl::IGMPv2LeaveMulticastGroupL ( in IPS\_Ref\_t *RefPhys*, in IGMPv2MulticastGroupList\_t *Groups* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Leave zero or more multicast groups.

#### Parameters

|    |                |                               |
|----|----------------|-------------------------------|
| in | <i>RefPhys</i> | Specifies BoardNr and PortNr. |
| in | <i>Groups</i>  | List with multicast groups.   |

#### Exceptions

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                                                                                             |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (Groups[i].RefPhys).</li> <li>Invalid multicast IP address (Groups[i].MulticastGroup).</li> <li>Inconsistency between RefPhys.BoardNr and Groups[i].RefPhys.BoardNr.</li> <li>Inconsistency between RefPhys.PortNr and Groups[i].RefPhys.PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>IGMP Individual mode is enabled (see below)</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <i>OpNotSupported</i> | When called for a non-GbE board.                                                                                                                                                                                                                                                                                                                                                                                       |

**8.48.3.4** void DCM::DeviceControl::IGMPv2SetMulticastGroupL ( in IPS\_Ref\_t *RefPhys*, in IGMPv2MulticastGroupList\_t *Groups* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Specify the multicast groups to be joined.

No multicast group should exist yet, hence identical to IGMPv2JoinMulticastGroupL. Do not use.

#### Parameters

|    |                |                             |
|----|----------------|-----------------------------|
| in | <i>RefPhys</i> | Board and portnumber.       |
| in | <i>Groups</i>  | List with multicast groups. |

#### Exceptions

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                                                                                             |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (Groups[i].RefPhys).</li> <li>Invalid multicast IP address (Groups[i].MulticastGroup).</li> <li>Inconsistency between RefPhys.BoardNr and Groups[i].RefPhys.BoardNr.</li> <li>Inconsistency between RefPhys.PortNr and Groups[i].RefPhys.PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>IGMP Individual mode is enabled (see below)</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <i>OpNotSupported</i> | When called for a non-GbE board.                                                                                                                                                                                                                                                                                                                                                                                       |

## 8.49 IGMPv3

This module contains types, enums and methods related to IGMPv3.

### Classes

- struct [DCM::DeviceControl::IGMPv3Group\\_t](#)

### Typedefs

- typedef sequence< IGMPv3Group\_t > [DCM::DeviceControl::IGMPv3GroupList\\_t](#)

### Enumerations

- enum [DCM::DeviceControl::enumIGMP\\_Version](#) { [DCM::DeviceControl::eIGMPv2](#), [DCM::DeviceControl::eIGMPv3](#) }
- enum [DCM::DeviceControl::enumIGMPv3Filtertype](#) { [DCM::DeviceControl::eIGMPv3IncludeSourceList](#), [DCM::DeviceControl::eIGMPv3ExcludeSourceList](#) }

### Functions

- enumIGMP\_Version [DCM::DeviceControl::GetIGMP\\_Version](#) (in IPS\_Ref\_t RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the highest supported IGMP version.*
- void [DCM::DeviceControl::SetIGMP\\_Version](#) (in IPS\_Ref\_t RefPhys, in enumIGMP\_Version en-Version) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the highest IGMP version to be supported.*
- IGMPv3GroupList\_t [DCM::DeviceControl::IGMPv3GetMulticastGroupL](#) (in IPS\_Ref\_t RefPhys, in IGMPv3GroupList\_t Groups) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the list of multicast groups and filter specifications.*
- void [DCM::DeviceControl::IGMPv3JoinLeaveL](#) (in IPS\_Ref\_t RefPhys, in IGMPv3GroupList\_t - Groups) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Join and/or leave multiple multicast groups.*
- void [DCM::DeviceControl::SetIGMP\\_IndividualMode](#) (in unsigned short BoardNumber, in boolean bModeOn) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*(Un)set individual join mode for this board.*
- void [DCM::DeviceControl::GetIGMP\\_IndividualMode](#) (in unsigned short BoardNumber, out boolean bModeOn) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the individual join mode for this board.*

#### 8.49.1 Detailed Description

This module contains types, enums and methods related to IGMPv3.

#### 8.49.2 Typedef Documentation

##### 8.49.2.1 typedef sequence<IGMPv3Group\_t> DCM::DeviceControl::IGMPv3GroupList\_t

Definition at line 20133 of file DCM.idl.

### 8.49.3 Enumeration Type Documentation

#### 8.49.3.1 enum DCM::DeviceControl::enumIGMP\_Version

Enumerator:

*eIGMPv2*

*eIGMPv3*

Definition at line 20113 of file DCM.idl.

#### 8.49.3.2 enum DCM::DeviceControl::enumIGMPv3Filtertype

Enumerator:

*eIGMPv3IncludeSourceList*

*eIGMPv3ExcludeSourceList*

Definition at line 20118 of file DCM.idl.

### 8.49.4 Function Documentation

#### 8.49.4.1 void DCM::DeviceControl::GetIGMP\_IndividualMode ( in unsigned short *BoardNumber*, out boolean *bModeOn* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the individual join mode for this board.

##### Parameters

|     |                    |                                                                         |
|-----|--------------------|-------------------------------------------------------------------------|
| in  | <i>BoardNumber</i> | The board to apply the call on. Only DCG boards currently support this. |
| out | <i>bModeOn</i>     | Enable the individuel mode                                              |

##### Exceptions

|                       |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                        |
| <i>OpNotSucceeded</i> | When boardnumber doesn't specify a DCG card.                      |
| <i>OpNotAllowed</i>   | Not logged on.                                                    |
| <i>OpNotSupported</i> | When this call is not supported in the runningi software version. |

##### Version

8.5

#### 8.49.4.2 enumIGMP\_Version DCM::DeviceControl::GetIGMP\_Version ( in IPS\_Ref\_t *RefPhys* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the highest supported IGMP version.

##### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Never thrown.                              |
| <i>OpNotAllowed</i>   | Not logged on.                             |

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for a non-GbE board, or when this call is not supported in the running software version. |
|-----------------------|------------------------------------------------------------------------------------------------------|

#### 8.49.4.3 IGMPv3GroupList\_t DCM::DeviceControl::IGMPv3GetMulticastGroupL ( in IPS\_Ref\_t RefPhys, in IGMPv3GroupList\_t Groups ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of multicast groups and filter specifications.

This includes both the groups joined statically from the GUI and multicast groups joined dynamically by the DCM software.

Depending on the individual join mode, the RefPhys's are interpreted as PortSet or individual ports

##### Parameters

|    |                |                                                                                                                                                                                                              |
|----|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i> | Port(Set) to retrieve information from. Wildcard and virtual port(set)s allowed.                                                                                                                             |
| in | <i>Groups</i>  | Groups to retrieve information about. Pass an empty sequence in order to retrieve all groups. Only m_iPortNr and m_MulticastAddres are interpreted, other <a href="#">IGMPv3Group_t</a> members are ignored. |

##### Returns

Requested list with multicast settings.

##### Exceptions

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                           |
| <i>OpNotSucceeded</i> | RefPhys is not a portset                                                                             |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                       |
| <i>OpNotSupported</i> | When called for a non-GbE board, or when this call is not supported in the running software version. |

#### 8.49.4.4 void DCM::DeviceControl::IGMPv3JoinLeaveL ( in IPS\_Ref\_t RefPhys, in IGMPv3GroupList\_t Groups ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Join and/or leave multiple multicast groups.

For an IGMPv2 join, specify filter mode E (exclusive) and an empty filter list. For leaving, specify filter mode I (inclusive) and an empty filter list. This call also allows to change the filter mode or filter list for a previously joined group.

Depending on the individual join mode, the RefPhys's are interpreted as PortSet or individual ports

##### Parameters

|    |                |                                                |
|----|----------------|------------------------------------------------|
| in | <i>RefPhys</i> | Number of the board to change settings on.     |
| in | <i>Groups</i>  | Group list. Member m_bLeaveAllowed is ignored. |

**Exceptions**

|                       |                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                                                                                                                      |
| <i>OpNotSucceeded</i> | The Portset we should join on does not exist, or if the number of joined multicast groups exceeds a predefined limit, or if it was attempted to leave a group that was not joined from the GUI. |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                  |
| <i>OpNotSupported</i> | When called for a non-GbE board, or when this call is not supported in the running software version.                                                                                            |

**8.49.4.5** void DCM::DeviceControl::SetIGMP\_IndividualMode ( in unsigned short *BoardNumber*, in boolean *bModeOn* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

(Un)set individual join mode for this board.

When enabled, it is possible to join a multicast address on a single interface and not on the port pair.

When switching from individual mode to paired mode, all multicast groups will be removed. When going from paired mode to individual mode, all groups are kept.

**Parameters**

|    |                    |                                                                         |
|----|--------------------|-------------------------------------------------------------------------|
| in | <i>BoardNumber</i> | The board to apply the call on. Only DCG boards currently support this. |
| in | <i>bModeOn</i>     | Enable the individual mode                                              |

**Exceptions**

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                       |
| <i>OpNotSucceeded</i> | When boardnumber doesn't specify a DCG card.                     |
| <i>OpNotAllowed</i>   | Not logged on.                                                   |
| <i>OpNotSupported</i> | When this call is not supported in the running software version. |

**Version**

8.5

**8.49.4.6** void DCM::DeviceControl::SetIGMP\_Version ( in IPS\_Ref\_t *RefPhys*, in enumIGMP\_Version *enVersion* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the highest IGMP version to be supported.

**Parameters**

|    |                  |                                     |
|----|------------------|-------------------------------------|
| in | <i>RefPhys</i>   | Board to which the setting applies. |
| in | <i>enVersion</i> | Either eIGMPv2 or eIGMPv3.          |

**Exceptions**

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                           |
| <i>OpNotSucceeded</i> | When called with a non supported enVersion.                                                          |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                       |
| <i>OpNotSupported</i> | When called for a non-GbE board, or when this call is not supported in the running software version. |



## 8.50 (Packet Counting and Threshold Monitoring)

Advanced Statistics for the GbE board: counters and threshold monitoring both for packets types before and after the error correction block for several configurations such as FEC protection, Individual Ports Hitless Merge, Hitless Merge over Separate Ports and also for when no error correction is enabled.

### Classes

- struct [DCM::DeviceControl::PCTM\\_ThresholdValues\\_t](#)  
*Threshold settings.*
- struct [DCM::DeviceControl::PCTM\\_StreamThresholdSettings\\_t](#)  
*Threshold settings for the packet types of one stream.*
- struct [DCM::DeviceControl::PCTM\\_PacketCounters\\_t](#)  
*Packet counter values.*
- struct [DCM::DeviceControl::PCTM\\_StreamPacketCounters\\_t](#)  
*Packet counters of one stream.*

### Typedefs

- typedef sequence < [PCTM\\_StreamThresholdSettings\\_t](#) > [DCM::DeviceControl::PCTM\\_StreamThresholdSettings\\_List\\_t](#)  
*Threshold settings for the packet types of multiple streams.*
- typedef sequence < [PCTM\\_StreamPacketCounters\\_t](#) > [DCM::DeviceControl::PCTM\\_StreamPacketCounters\\_List\\_t](#)  
*Packet counters of multiple streams.*

### Functions

- void [DCM::DeviceControl::PCTM\\_SetBoardDefThresholds](#) (in unsigned short BoardNr, in [PCTM\\_ThresholdValues\\_t](#) BoardDefaultSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Set board default threshold settings for each packet type.*
- void [DCM::DeviceControl::PCTM\\_GetBoardDefThresholds](#) (in unsigned short BoardNr, out [PCTM\\_ThresholdValues\\_t](#) BoardDefaultSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get board default threshold settings for each packet type.*
- void [DCM::DeviceControl::PCTM\\_SetStreamThresholds](#) (in unsigned short BoardNr, in [PCTM\\_StreamThresholdSettings\\_List\\_t](#) StreamSpecificSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Set or unset stream specific packet type thresholds settings that overwrite the board default settings.*
- void [DCM::DeviceControl::PCTM\\_GetStreamThresholds](#) (in [IPS\\_Ref\\_t](#) Location, in [IPS\\_RefTS\\_List\\_t](#) Streams, out [PCTM\\_StreamThresholdSettings\\_List\\_t](#) StreamSpecificSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get stream specific packet type thresholds settings.*
- void [DCM::DeviceControl::PCTM\\_GetPacketCounters](#) (in [IPS\\_Ref\\_t](#) Location, in [IPS\\_RefTS\\_List\\_t](#) Streams, out [PCTM\\_StreamPacketCounters\\_List\\_t](#) PacketCounters) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get packet counters of one, multiple or all streams.*

- void **DCM::DeviceControl::PCTM\_Reset** (in unsigned short *BoardNr*) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Reset all packet counters, clear all threshold alarms and restart all threshold measurement windows.*

### 8.50.1 Detailed Description

Advanced Statistics for the GbE board: counters and threshold monitoring both for packets types before and after the error correction block for several configurations such as FEC protection, Individual Ports Hitless Merge, Hitless Merge over Separate Ports and also for when no error correction is enabled.

### 8.50.2 Typedef Documentation

#### 8.50.2.1 typedef sequence<PCTM\_StreamPacketCounters\_t> DCM::DeviceControl::PCTM\_StreamPacketCounters\_List\_t

Packet counters of multiple streams.

Definition at line 20325 of file DCM.idl.

#### 8.50.2.2 typedef sequence<PCTM\_StreamThresholdSettings\_t> DCM::DeviceControl::PCTM\_StreamThresholdSettings\_List\_t

Threshold settings for the packet types of multiple streams.

Definition at line 20295 of file DCM.idl.

### 8.50.3 Function Documentation

#### 8.50.3.1 void DCM::DeviceControl::PCTM\_GetBoardDefThresholds ( in unsigned short *BoardNr*, out PCTM\_ThresholdValues\_t *BoardDefaultSettings* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get board default threshold settings for each packet type.

#### Parameters

|    |                             |                                                       |
|----|-----------------------------|-------------------------------------------------------|
| in | <i>BoardNr</i>              | The slot/board to retrieve the default settings from. |
| in | <i>BoardDefaultSettings</i> | The board default threshold settings to retrieve.     |

#### Exceptions

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| <i>Timeout</i>        | Is thrown when it takes too long to handle the call;           |
| <i>OpNotSucceeded</i> | Is thrown when supplying an invalid or non-existing board nbr; |
| <i>OpNotSupported</i> | Is thrown when called for another board than a GbE IO-board;   |

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**8.50.3.2** void DCM::DeviceControl::PCTM\_GetPacketCounters ( in IPS\_Ref\_t *Location*, in IPS\_RefTS\_List\_t *Streams*, out PCTM\_StreamPacketCounters\_List\_t *PacketCounters* )  
 raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get packet counters of one, multiple or all streams.

**Note**

Packet counters can be retrieved for all packet types both in case:

- no error correction is configured;
- FEC protection is enabled;
- Single Port Hitless Merge is enabled;
- Hitless Merge over Separate Ports is enabled;

In general, the Missing Packets before Error Correction counters are only increased for those streams for which stream specific settings have a non-zero threshold value. (limited to maximally 32 main TS per port pair)

If no error correction is configured, only the Valid Packet counters and the Missing Packets after Error Correction counters are increased.

The Fixed Packet counters are only increased if FEC protection is used.

**Remarks**

Both parameter 'Location' and 'Streams' are used to filter. If 'Streams' is an empty list, then use 'Location' to filter all streams on the specified location (board level, port level, etc.). If 'Streams' is not an empty list then return packet counters for the streams explicitly specified, but in that case the location is not allowed to conflict with any of the streams.

**Parameters**

|    |                       |                                                         |
|----|-----------------------|---------------------------------------------------------|
| in | <i>Location</i>       | The slot/board to fetch the counters from.              |
| in | <i>Streams</i>        | The streams for which to retrieve the packet counters.  |
| in | <i>PacketCounters</i> | The retrieved packet counters of the specified streams. |

**Exceptions**

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| <i>Timeout</i>        | Is thrown when it takes too long to handle the call;           |
| <i>OpNotSucceeded</i> | Is thrown when supplying an invalid or non-existing board nbr; |
| <i>OpNotSupported</i> | Is thrown when called for another board than a GbE IO-board;   |

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**8.50.3.3** void DCM::DeviceControl::PCTM\_GetStreamThresholds ( in IPS\_Ref\_t *Location*, in IPS\_RefTS\_List\_t *Streams*, out PCTM\_StreamThresholdSettings\_List\_t *StreamSpecificSettings* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get stream specific packet type thresholds settings.

## Remarks

Both parameter 'Location' and 'Streams' are used to filter. If 'Streams' is an empty list, then use 'Location' to filter all streams on the specified location (board level, port level, etc.). If 'Streams' is not an empty list then return settings for the streams explicitly specified, but in that case the location is not allowed to conflict with any of the streams.

## Parameters

|    |                               |                                                             |
|----|-------------------------------|-------------------------------------------------------------|
| in | <i>Location</i>               | The location to retrieve the stream specific settings from. |
| in | <i>Streams</i>                | The streams for which to retrieve the threshold settings.   |
| in | <i>StreamSpecificSettings</i> | The stream specific threshold settings.                     |

## Exceptions

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| <i>Timeout</i>        | Is thrown when it takes too long to handle the call;           |
| <i>OpNotSucceeded</i> | Is thrown when supplying an invalid or non-existing board nbr; |
| <i>OpNotSupported</i> | Is thrown when called for another board than a GbE IO-board;   |

## Version

Release 11.10

**8.50.3.4** void DCM::DeviceControl::PCTM\_Reset ( in unsigned short *BoardNr* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Reset all packet counters, clear all threshold alarms and restart all threshold measurement windows.

## Note

reset will also reset the existing 'FEC Dec statistics'

## Parameters

|    |                |                          |
|----|----------------|--------------------------|
| in | <i>BoardNr</i> | The slot/board to reset. |
|----|----------------|--------------------------|

## Exceptions

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| <i>Timeout</i>        | Is thrown when it takes too long to handle the call;           |
| <i>OpNotSucceeded</i> | Is thrown when supplying an invalid or non-existing board nbr; |

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| <i>OpNotSupported</i> | Is thrown when called for another board than a GbE IO-board; |
|-----------------------|--------------------------------------------------------------|

**Version**

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**8.50.3.5** void DCM::DeviceControl::PCTM\_SetBoardDefThresholds ( in unsigned short *BoardNr*, in PCTM\_ThresholdValues\_t *BoardDefaultSettings* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set board default threshold settings for each packet type.

**Note**

The threshold settings comprise threshold values where a non-zero threshold value indicates the threshold monitoring is active for all counters of the respective packet type unless stream specific threshold settings decide otherwise.

If the threshold value for a stream's packet type is reached an alarm will be raised for the packet type of that specific stream. An evaluation is made at the end of each 30 sec measurement window ignoring measurements of previous windows. The alarm will automatically be cleared due to one of the next measurement window evaluations as soon as the threshold value was not exceeded during the new window.

Threshold values of zero imply no threshold monitoring is active so no alarms can be raised for that packet type. (unless for streams with stream specific settings that decide otherwise) Changing a non-zero threshold value back to zero will only clear the alarms for the respective packet type during the next measurement window evaluation. (unless for streams with stream specific settings that decide otherwise)

Enabling threshold monitoring for the Missing Packet before Error Correction packet type is only possible using stream specific threshold settings.

**Parameters**

|    |                             |                                                  |
|----|-----------------------------|--------------------------------------------------|
| in | <i>BoardNr</i>              | The slot/board to apply the default settings on. |
| in | <i>BoardDefaultSettings</i> | The board default threshold settings to apply.   |

**Exceptions**

|                        |                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>         | Is thrown when it takes too long to handle the call;                                                                                                                 |
| <i>OpNotSucceeded</i>  | Is thrown when supplying an invalid or non-existing board nbr;                                                                                                       |
| <i>OpNotSupported</i>  | Is thrown when called for another board than a GbE IO-board;                                                                                                         |
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>supplying a non-zero threshold value for the Missing Packet before Error - Correction packet type.</li> </ul> |

**Version**

Release 11.10

**8.50.3.6** void DCM::DeviceControl::PCTM\_SetStreamThresholds ( in unsigned short *BoardNr*,  
in PCTM\_StreamThresholdSettings\_List\_t *StreamSpecificSettings* ) raises (TimeOut,  
OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set or unset stream specific packet type thresholds settings that overwrite the board default settings.

#### Note

The same general behaviour concerning threshold monitoring such as measurement windows, evaluations, alarm raising and clearing, and configuration as described for the board level default settings apply;

For each stream the board default threshold settings are used for each of its packet types unless stream specific threshold settings are supplied by providing a non-zero threshold value for each packet type for which the board default is not to be used.

Disabling the stream specific threshold settings is done by providing a threshold value of zero for each of the stream's packet types where the board default is to be used again for.

Providing stream specific non-zero threshold values for the Missing Packet before Error Correction packet type will in addition enable the packet counter for the packet type of the stream, limited to 32 main TS per port pair.

Changing a non-zero stream specific threshold value back to zero while the board default threshold value for the same packet type is zero will as a side-effect trigger, if applicable, clearing the alarm of that stream for that packet type.

#### Parameters

|    |                                |                                                          |
|----|--------------------------------|----------------------------------------------------------|
| in | <i>BoardNr</i>                 | The slot/board to apply the stream specific settings on. |
| in | <i>StreamSpecific-Settings</i> | The stream specific threshold settings.                  |

#### Exceptions

|                        |                                                                                                                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>         | Is thrown when it takes too long to handle the call;                                                                                                                                                                                                                                                  |
| <i>OpNotSucceeded</i>  | Is thrown when supplying an invalid or non-existing board nbr;                                                                                                                                                                                                                                        |
| <i>OpNotSupported</i>  | Is thrown when called for another board than a GbE IO-board;                                                                                                                                                                                                                                          |
| <i>OperationFailed</i> | Is thrown when: <ul style="list-style-type: none"> <li>supplying an empty list of settings;</li> <li>supplying settings such that the total number of streams per board for which the Missing Packet before Error Correction threshold value is non-zero exceeds 32 main TS per port pair;</li> </ul> |

#### Version

Release 11.10

## 8.51 License

This module contains types, enums and methods related to license.

### Classes

- struct `DCM::DeviceControl::Feature_t`
- struct `DCM::DeviceControl::LicenseValidation_t`
- struct `DCM::DeviceControl::TempLicenseData`
- struct `DCM::DeviceControl::FeatureUsage_t`  
*Represents the license usage count per feature.*
- struct `DCM::DeviceControl::BoardFeatureUsage_t`  
*Contains the feature usage per board.*

### Typedefs

- typedef `sequence< Feature_t > DCM::DeviceControl::FeatureList_t`  
*Sequence of Features ...*
- typedef `unsigned short DCM::DeviceControl::TempLicenseState_t`
- typedef `sequence< FeatureUsage_t > DCM::DeviceControl::FeatureUsageList_t`  
*A list of [FeatureUsage\\_t](#) elements.*
- typedef `sequence< BoardFeatureUsage_t > DCM::DeviceControl::BoardFeatureUsageList_t`  
*A list of [BoardFeatureUsage\\_t](#) elements.*

### Enumerations

- enum `DCM::DeviceControl::eFeatureState` { `DCM::DeviceControl::eFeatureInvalid`, `DCM::DeviceControl::eFeatureDisabled`, `DCM::DeviceControl::eFeatureEnabled` }  
*Feature Status.*
- enum `DCM::DeviceControl::eFeatureType` { `DCM::DeviceControl::eFeatureUnknown`, `DCM::DeviceControl::eFeatureInherited`, `DCM::DeviceControl::eFeatureNative` }  
*Feature Type.*
- enum `DCM::DeviceControl::eFeatureInstallState` { `DCM::DeviceControl::eFeatureEmpty`, `DCM::DeviceControl::eFeatureNotInstalled`, `DCM::DeviceControl::eFeatureInstalled` }  
*Install State.*
- enum `DCM::DeviceControl::eFeatureExpireState` { `DCM::DeviceControl::eFeatureExpired`, `DCM::DeviceControl::eFeatureNotExpired` }  
*obsolete: not used for temporary licenses a temporary license gives access to all feature during a limited time.*
- enum `DCM::DeviceControl::eDeviceState` { `DCM::DeviceControl::eDeviceStateInvalid`, `DCM::DeviceControl::eDeviceStateMain`, `DCM::DeviceControl::eDeviceStateBackup`, `DCM::DeviceControl::eDeviceStateReserved1`, `DCM::DeviceControl::eDeviceStateReserved2`, `DCM::DeviceControl::eDeviceStateReserved3`, `DCM::DeviceControl::eDeviceStateReserved4` }

## Functions

- void [DCM::DeviceControl::UninstallFeature](#) (in unsigned short BoardNr, in string Name) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*UnInstalls the license of a feature.*
- void [DCM::DeviceControl::SetFeatureState](#) (in unsigned short BoardNr, in string Name, in eFeature-State State) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the state of a feature.*
- void [DCM::DeviceControl::GetHostId](#) (in unsigned short BoardNr, out string HostId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*GetHostId.*
- void [DCM::DeviceControl::GetFamilyName](#) (in unsigned short BoardNr, out string FamilyName) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*GetFamilyName.*
- FeatureList\_t [DCM::DeviceControl::GetFeatureSettings](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the settings of all the registered features.*
- LicenseValidation\_t [DCM::DeviceControl::GetLicenseValidation](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*GetVersionAndValidationKey.*
- eDeviceState [DCM::DeviceControl::GetDeviceState](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*GetDeviceState.*
- TempLicenseData [DCM::DeviceControl::GetTempLicenseData](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the data of the Temporary Licenses.*
- void [DCM::DeviceControl::ExpireTempLicenses](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Makes sure the temporary licenses are expired at the time the users wants it.*
- BoardFeatureUsageList\_t [DCM::DeviceControl::GetBoardFeatureUsageL](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Returns the licenses in use per feature and per board.*

## Variables

- const TempLicenseState\_t [DCM::DeviceControl::TEMP\\_LICENSE\\_NOT\\_ACTIVE](#) = 0  
*no temporary licenses active*
- const TempLicenseState\_t [DCM::DeviceControl::TEMP\\_LICENSE\\_ACTIVE](#) = 1  
*temporary licenses active*
- const TempLicenseState\_t [DCM::DeviceControl::TEMP\\_LICENSE\\_WAITING](#) = 2  
*temporary licenses waiting for the start time to become active*

### 8.51.1 Detailed Description

This module contains types, enums and methods related to license.



## 8.51.2 Typedef Documentation

### 8.51.2.1 typedef sequence<BoardFeatureUsage\_t> DCM::DeviceControl::BoardFeatureUsageList\_t

A list of [BoardFeatureUsage\\_t](#) elements.

Definition at line 20714 of file DCM.idl.

### 8.51.2.2 typedef sequence<Feature\_t> DCM::DeviceControl::FeatureList\_t

Sequence of Features ...

Definition at line 20548 of file DCM.idl.

### 8.51.2.3 typedef sequence<FeatureUsage\_t> DCM::DeviceControl::FeatureUsageList\_t

A list of [FeatureUsage\\_t](#) elements.

Definition at line 20702 of file DCM.idl.

### 8.51.2.4 typedef unsigned short DCM::DeviceControl::TempLicenseState\_t

Definition at line 20655 of file DCM.idl.

## 8.51.3 Enumeration Type Documentation

### 8.51.3.1 enum DCM::DeviceControl::eDeviceState

Enumerator:

*eDeviceStateInvalid* Device is in an invalid state, meaning no licenses can be taken.

*eDeviceStateMain* Device is MAIN.

*eDeviceStateBackup* Device is BACKUP.

*eDeviceStateReserved1* reserved for future use

*eDeviceStateReserved2* reserved for future use

*eDeviceStateReserved3* reserved for future use

*eDeviceStateReserved4* reserved for future use

Definition at line 20632 of file DCM.idl.

### 8.51.3.2 enum DCM::DeviceControl::eFeatureExpireState

obsolete: not used for temporary licenses a temporary license gives access to all feature during a limited time.

Enumerator:

*eFeatureExpired*

*eFeatureNotExpired*

Definition at line 20525 of file DCM.idl.

### 8.51.3.3 enum DCM::DeviceControl::eFeatureInstallState

Install State.

**Enumerator:**

*eFeatureEmpty* invalid or unused table entry  
*eFeatureNotInstalled* no valid license key has ever been entered  
*eFeatureInstalled*

Definition at line 20516 of file DCM.idl.

**8.51.3.4 enum DCM::DeviceControl::eFeatureState**

Feature Status.

**Enumerator:**

*eFeatureInvalid* --> Value may not be used !!!  
*eFeatureDisabled*  
*eFeatureEnabled*

Definition at line 20500 of file DCM.idl.

**8.51.3.5 enum DCM::DeviceControl::eFeatureType**

Feature Type.

**Enumerator:**

*eFeatureUnknown*  
*eFeatureInherited*  
*eFeatureNative*

Definition at line 20508 of file DCM.idl.

**8.51.4 Function Documentation****8.51.4.1 void DCM::DeviceControl::ExpireTempLicenses ( in unsigned short *BoardNr* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Makes sure the temporary licenses are expired at the time the users wants it.

Remark: when this is not used, the temporary licenses will expire on the given expiration time and the system will reboot in case there are more licenses used than there are licenses available per feature.

**Parameters**

|    |                |  |
|----|----------------|--|
| in | <i>BoardNr</i> |  |
|----|----------------|--|

**Exceptions**

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>• Boadnr != 0 (mainboard only)</li> </ul> |
|-----------------------|----------------------------------------------------------------------------------|

**8.51.4.2 BoardFeatureUsageList\_t DCM::DeviceControl::GetBoardFeatureUsageL ( in unsigned short *BoardNr* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Returns the licenses in use per feature and per board.

T

**Parameters**

|    |                |                            |
|----|----------------|----------------------------|
| in | <i>BoardNr</i> | board number. Should be 0. |
|----|----------------|----------------------------|

**Returns**

BoardFeatureUsageList\_t

**Exceptions**

|                       |                                                                                |
|-----------------------|--------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"><li>• Boadnr != 0 (mainboard only)</li></ul> |
|-----------------------|--------------------------------------------------------------------------------|

**Version**

Release 8.5

**8.51.4.3 eDeviceState DCM::DeviceControl::GetDeviceState ( in unsigned short *BoardNr* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

GetDeviceState.

**Parameters**

|    |                |  |
|----|----------------|--|
| in | <i>BoardNr</i> |  |
|----|----------------|--|

**Returns**

eDeviceState

**Exceptions**

|                       |                                                                                |
|-----------------------|--------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"><li>• Boadnr != 0 (mainboard only)</li></ul> |
|-----------------------|--------------------------------------------------------------------------------|

**8.51.4.4 void DCM::DeviceControl::GetFamilyName ( in unsigned short *BoardNr*, out string *FamilyName* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

GetFamilyName.

**Parameters**

|     |                   |  |
|-----|-------------------|--|
| in  | <i>BoardNr</i>    |  |
| out | <i>FamilyName</i> |  |

**Exceptions**

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>• Boardnr != 0 (mainboard only)</li> </ul> |
|-----------------------|-----------------------------------------------------------------------------------|

**8.51.4.5 FeatureList\_t DCM::DeviceControl::GetFeatureSettings ( in unsigned short *BoardNr* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Gets the settings of all the registered features.

**Parameters**

|    |                |  |
|----|----------------|--|
| in | <i>BoardNr</i> |  |
|----|----------------|--|

**Returns**

FeatureList

**Exceptions**

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>• Boardnr != 0 (mainboard only)</li> </ul> |
|-----------------------|-----------------------------------------------------------------------------------|

**8.51.4.6 void DCM::DeviceControl::GetHostId ( in unsigned short *BoardNr*, out string *HostId* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

GetHostId.

**Parameters**

|     |                |  |
|-----|----------------|--|
| in  | <i>BoardNr</i> |  |
| out | <i>HostId</i>  |  |

**Exceptions**

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>• Boardnr != 0 (mainboard only)</li> </ul> |
|-----------------------|-----------------------------------------------------------------------------------|

**8.51.4.7 LicenseValidation\_t DCM::DeviceControl::GetLicenseValidation ( in unsigned short *BoardNr* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

GetVersionAndValidationKey.

**Parameters**

|    |                |  |
|----|----------------|--|
| in | <i>BoardNr</i> |  |
|----|----------------|--|

**Returns**[LicenseValidation\\_t](#)**Exceptions**

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>• Boadnr != 0 (mainboard only)</li> </ul> |
|-----------------------|----------------------------------------------------------------------------------|

**8.51.4.8** TempLicenseData DCM::DeviceControl::GetTempLicenseData ( in unsigned short *BoardNr* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the data of the Temporary Licenses.

**Parameters**

|    |                |  |
|----|----------------|--|
| in | <i>BoardNr</i> |  |
|----|----------------|--|

**Returns**[TempLicenseData](#)**Exceptions**

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>• Boadnr != 0 (mainboard only)</li> </ul> |
|-----------------------|----------------------------------------------------------------------------------|

**8.51.4.9** void DCM::DeviceControl::SetFeatureState ( in unsigned short *BoardNr*, in string *Name*, in eFeatureState *State* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the state of a feature.

**Parameters**

|    |                |                    |
|----|----------------|--------------------|
| in | <i>BoardNr</i> |                    |
| in | <i>Name</i>    | FeatureName.       |
| in | <i>State</i>   | Disable or Enable. |

**Exceptions**

|                       |                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>• BoardNr != 0 (mainboard only)</li> <li>• State is not valid</li> <li>• Feature can't be enabled when feature isn't installed</li> <li>• Feature is not supported</li> </ul> |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**8.51.4.10** void DCM::DeviceControl::UninstallFeature ( in unsigned short *BoardNr*, in string *Name* )  
 raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

UnInstalls the license of a feature.

#### Parameters

|    |                |                           |
|----|----------------|---------------------------|
| in | <i>BoardNr</i> |                           |
| in | <i>Name</i>    | FeatureName to uninstall. |

#### Exceptions

|                       |                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>• BoardNr != 0 (mainboard only)</li> <li>• Feature is not supported</li> </ul> |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------|

#### Note

The IDL-call to install the Features is described in the DCM\_MB.idl document.

### 8.51.5 Variable Documentation

**8.51.5.1** const TempLicenseState\_t DCM::DeviceControl::TEMP\_LICENSE\_ACTIVE = 1

temporary licenses active

Definition at line 20657 of file DCM.idl.

**8.51.5.2** const TempLicenseState\_t DCM::DeviceControl::TEMP\_LICENSE\_NOT\_ACTIVE = 0

no temporary licenses active

Definition at line 20656 of file DCM.idl.

**8.51.5.3** const TempLicenseState\_t DCM::DeviceControl::TEMP\_LICENSE\_WAITING = 2

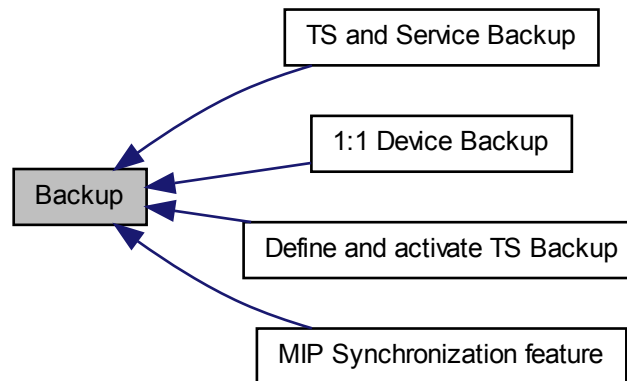
temporary licenses waiting for the start time to become active

Definition at line 20658 of file DCM.idl.

## 8.52 Backup

In this group different backup type definitions, enums and methods are defined.

Collaboration diagram for Backup:



### Classes

- struct [DCM::DeviceControl::ServiceBackupParams\\_t](#)
- struct [DCM::DeviceControl::BackupService\\_t](#)
- struct [DCM::DeviceControl::BackupSrvTable\\_t](#)
- struct [DCM::DeviceControl::ServiceBackupParams2\\_t](#)
- struct [DCM::DeviceControl::AltSrcBU\\_Setting\\_t](#)
- struct [DCM::DeviceControl::AltSrcMergeActiveInSvc\\_t](#)
- struct [DCM::DeviceControl::TsOutSvcSourceSelection\\_t](#)

### Modules

- [TS and Service Backup](#)
- [1:1 Device Backup](#)
- [Define and activate TS Backup](#)
- *end of one\_to\_one\_backup*
- [MIP Synchronization feature](#)

### Typedefs

- typedef sequence< BackupService\_t > [DCM::DeviceControl::BackupServiceList\\_t](#)
- typedef sequence< BackupSrvTable\_t > [DCM::DeviceControl::BackupSrvTableList\\_t](#)
- typedef sequence< AltSrcBU\_Setting\_t > [DCM::DeviceControl::AltSrcBU\\_SettingList\\_t](#)
- typedef sequence< AltSrcMergeActiveInSvc\_t > [DCM::DeviceControl::AltSrcMergeActiveInSvcList\\_t](#)

- typedef sequence < TsOutSvcSourceSelection\_t > [DCM::DeviceControl::TsOutSvcSourceSelection-List\\_t](#)

### Enumerations

- enum [DCM::DeviceControl::eServiceBackupMode\\_t](#) { [DCM::DeviceControl::eSBU\\_NonRevertive](#), [DCM::DeviceControl::eSBU\\_Revertive](#), [DCM::DeviceControl::eSBU\\_Floating](#) }
- enum [DCM::DeviceControl::ServiceSourcePriority\\_t](#) { [DCM::DeviceControl::eMainPriority](#), [DCM::DeviceControl::eHighestBackupPriority](#), [DCM::DeviceControl::eReservedPriority1](#), [DCM::DeviceControl::eReservedPriority2](#), [DCM::DeviceControl::eReservedPriority3](#), [DCM::DeviceControl::eReservedPriority4](#), [DCM::DeviceControl::eReservedPriority5](#), [DCM::DeviceControl::eReservedPriority6](#), [DCM::DeviceControl::eReservedPriority7](#) }

### Functions

- void [DCM::DeviceControl::SetServiceBU\\_Params](#) (in [IPS\\_Service\\_t](#) OutService, in [ServiceBackupParams\\_t](#) ServiceBackupParams) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the ServiceBackup parameters for an output service.*

- void [DCM::DeviceControl::GetServiceBU\\_Params](#) (in [IPS\\_Service\\_t](#) OutService, out [ServiceBackupParams\\_t](#) ServiceBackupParams) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the ServiceBackup parameters of an output service.*

- void [DCM::DeviceControl::SetServiceBU\\_Params2](#) (in [IPS\\_Service\\_t](#) OutService, in [ServiceBackupParams2\\_t](#) ServiceBackupParams2) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the ServiceBackup parameters for an output service.*

- void [DCM::DeviceControl::GetServiceBU\\_Params2](#) (in [IPS\\_Service\\_t](#) OutService, out [ServiceBackupParams2\\_t](#) ServiceBackupParams2) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the ServiceBackup parameters of an output service.*

- void [DCM::DeviceControl::SetServiceBU\\_BackupL](#) (in [IPS\\_Service\\_t](#) OutService, in [BackupSrvTableList\\_t](#) BackupSrvList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the ServiceBackupList of an output service.*

- void [DCM::DeviceControl::GetServiceBU\\_BackupL](#) (in [IPS\\_Service\\_t](#) OutService, out [BackupSrvTableList\\_t](#) BackupSrvList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the ServiceBackupList of an output service.*

- void [DCM::DeviceControl::SetActiveInputService](#) (in [IPS\\_Service\\_t](#) OutService, in [IPS\\_Service\\_t](#) InMergeSvcSource, in [IPS\\_Service\\_t](#) ActiveInService) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Lets the user activate for a certain output service, the input service to be used.*

- void [DCM::DeviceControl::GetActiveInputService](#) (in [IPS\\_Service\\_t](#) OutService, in [IPS\\_Service\\_t](#) InMergeSvcSource, out [IPS\\_Service\\_t](#) ActiveInService) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets for a certain output service, the active input service.*

- void [DCM::DeviceControl::SetServiceBU\\_SwitchToGoodSrcOnly](#) (in unsigned short Board, in boolean Enabled) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets for service backup that the switch to the backup service will only happen if this service is not in alarm.*



- void `DCM::DeviceControl::GetServiceBU_SwitchToGoodSrcOnly` (in unsigned short Board, out boolean Enabled) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets for service backup if the switch to the backup service will only happen if this service is not in alarm.*
- void `DCM::DeviceControl::SetServiceBU_BackupL_V2` (in IPS\_Service\_t OutService, in AltSrcBU\_Setting\_t AltSrcBU\_Setting) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the ServiceBackupList of an output service for a certian alternate source.*

- void `DCM::DeviceControl::GetServiceBU_BackupL_V2` (in IPS\_Service\_t OutService, in AlternateSrcIdList\_t AlternateSrcIdList, out AltSrcBU\_SettingList\_t AltSrcBU\_SettingList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the Backup services for all alternate sources of an output service.*

- void `DCM::DeviceControl::SetActiveInputService_V2` (in IPS\_Service\_t OutService, in AltSrcMergeActiveInSvc\_t AltSrcMergeActiveInSvc) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Lets the user activate for a certain output service, the input service to be used.*

- void `DCM::DeviceControl::GetActiveInputServices_V2` (in IPS\_Service\_t OutService, in AlternateSrcIdList\_t AlternateSrcIdList, out AltSrcMergeActiveInSvcList\_t AltSrcMergeActiveInSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets for a certain output service, the active input services for all its alternate sources.*

- void `DCM::DeviceControl::BoardBU_SvcSourcesActivate` (in unsigned short BoardNr, in ServiceSourcePriority\_t SourcePrio) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Lets the user activate for a all active alternate output services on a board the main or backup service sources.*

- void `DCM::DeviceControl::OutTS_BU_SvcSource_ActivateL` (in IPS\_Ref\_t PhysRef, in TsOutSvcSourceSelectionList\_t TsOutSvcSourceSelectionList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Lets the user activate for all active alternate output services of one or more output transport streams, the main or backup service sources.*

### 8.52.1 Detailed Description

In this group different backup type definitions, enums and methods are defined.

### 8.52.2 Typedef Documentation

#### 8.52.2.1 typedef sequence<AltSrcBU\_Setting\_t> DCM::DeviceControl::AltSrcBU\_SettingList\_t

Definition at line 23208 of file DCM.idl.

#### 8.52.2.2 typedef sequence<AltSrcMergeActiveInSvc\_t> DCM::DeviceControl::AltSrcMergeActiveInSvcList\_t

Definition at line 23252 of file DCM.idl.

#### 8.52.2.3 typedef sequence<BackupService\_t> DCM::DeviceControl::BackupServiceList\_t

Definition at line 23051 of file DCM.idl.

#### 8.52.2.4 typedef sequence<BackupSrvTable\_t> DCM::DeviceControl::BackupSrvTableList\_t

Definition at line 23060 of file DCM.idl.

### 8.52.2.5 typedef sequence<TsOutSvcSourceSelection\_t> DCM::DeviceControl::TsOutSvcSourceSelectionList\_t

Definition at line 23301 of file DCM.idl.

## 8.52.3 Enumeration Type Documentation

### 8.52.3.1 enum DCM::DeviceControl::eServiceBackupMode\_t

Enumerator:

*eSBU\_NonRevertive*

*eSBU\_Revertive*

*eSBU\_Floating* In this mode a switch will happen when the active source is bad < and any other good source is available.

Definition at line 23086 of file DCM.idl.

### 8.52.3.2 enum DCM::DeviceControl::ServiceSourcePriority\_t

Enumerator:

*eMainPriority*

*eHighestBackupPriority*

*eReservedPriority1*

*eReservedPriority2*

*eReservedPriority3*

*eReservedPriority4*

*eReservedPriority5*

*eReservedPriority6*

*eReservedPriority7*

Definition at line 23282 of file DCM.idl.

## 8.52.4 Function Documentation

### 8.52.4.1 void DCM::DeviceControl::BoardBU\_SvcSourcesActivate ( in unsigned short *BoardNr*, in ServiceSourcePriority\_t *SourcePrio* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Lets the user activate for a all active alternate output services on a board the main or backup service sources.  
(also for all active merged services)

#### Parameters

|    |                   |                                                                                      |
|----|-------------------|--------------------------------------------------------------------------------------|
| in | <i>BoardNr</i>    | specifies for which (output) board the call is meant                                 |
| in | <i>SourcePrio</i> | specifies which source should be activated (main or highest priority backup source). |

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.             |
| <i>OpNotSucceeded</i> | Invalid priority given.                    |
| <i>OpNotAllowed</i>   | Not logged on                              |

**Version**

Release 8.0

**8.52.4.2** void DCM::DeviceControl::GetActiveInputService ( in IPS\_Service\_t *OutService*, in IPS\_Service\_t *InMergeSvcSource*, out IPS\_Service\_t *ActiveInService* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets for a certain output service, the active input service.

**Parameters**

|     |                         |                                                                           |
|-----|-------------------------|---------------------------------------------------------------------------|
| in  | <i>OutService</i>       | Service where the active source should is requested from.                 |
| in  | <i>InMergeSvcSource</i> | Merged service reference where the active source should is requested from |
| out | <i>ActiveInService</i>  | Active input service source                                               |

**Exceptions**

|                       |                                |
|-----------------------|--------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board. |
| <i>OpNotSucceeded</i> | Invalid service reference.     |

**8.52.4.3** void DCM::DeviceControl::GetActiveInputServices\_V2 ( in IPS\_Service\_t *OutService*, in AlternateSrcIdList\_t *AlternateSrcIdList*, out AltSrcMergeActiveInSvcList\_t *AltSrcMergeActiveInSvcList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets for a certain output service, the active input services for all its alternate sources.

**Parameters**

|     |                                   |                                                                                                                                    |
|-----|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| in  | <i>OutService</i>                 | Service where the active source should is requested from.                                                                          |
| in  | <i>AlternateSrcIdList</i>         | The IDs of the alternate sources for which settings are requested. If empty, then settings of all services on the TS are returned. |
| out | <i>AltSrcMergeActiveInSvcList</i> | Active input service sources                                                                                                       |

**Exceptions**

|                       |                                |
|-----------------------|--------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board. |
| <i>OpNotSucceeded</i> | Invalid service reference.     |

**Version**

Release 7.1

**8.52.4.4** void DCM::DeviceControl::GetServiceBU\_BackupL ( in IPS\_Service\_t *OutService*, out BackupSrvTableList\_t *BackupSrvList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the ServiceBackupList of an output service.

#### Parameters

|     |                      |                                                                       |
|-----|----------------------|-----------------------------------------------------------------------|
| in  | <i>OutService</i>    | specifies BoardNr, PortNr, TS and output SID to get the BuSrv-List of |
| out | <i>BackupSrvList</i> | List backup input services                                            |

#### Exceptions

|                       |                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                             |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutputService reference (BoardNr, PortNr, TS and SID)</li> </ul> |

**8.52.4.5** void DCM::DeviceControl::GetServiceBU\_BackupL\_V2 ( in IPS\_Service\_t *OutService*, in AlternateSrcIdList\_t *AlternateSrcIdList*, out AltSrcBU\_SettingList\_t *AltSrcBU\_SettingList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the Backup services for all alternate sources of an output service.

#### Parameters

|     |                             |                                                                                                                                    |
|-----|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| in  | <i>OutService</i>           | specifies BoardNr, PortNr, TS and output SID to get the BuSrv-List of                                                              |
| in  | <i>AlternateSrcIdList</i>   | The IDs of the alternate sources for which settings are requested. If empty, then settings of all services on the TS are returned. |
| out | <i>AltSrcBU_SettingList</i> | List backup input services                                                                                                         |

#### Exceptions

|                       |                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                             |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutputService reference (BoardNr, PortNr, TS and SID)</li> </ul> |

#### Version

Release 7.1

**8.52.4.6** void DCM::DeviceControl::GetServiceBU\_Params ( in IPS\_Service\_t *OutService*, out ServiceBackupParams\_t *ServiceBackupParams* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the ServiceBackup parameters of an output service.

Obsolete from V6.0 onwards. If the mode is floating (not supported in this IIOP call), then Revertive false will be returned.

**Parameters**

|     |                             |                                                                      |
|-----|-----------------------------|----------------------------------------------------------------------|
| in  | <i>OutService</i>           | specifies BoardNr, PortNr, TS and output SID to get the BU-params of |
| out | <i>ServiceBackup-Params</i> | BU-parameters                                                        |

**Exceptions**

|                       |                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                             |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutputService reference (BoardNr, PortNr, TS and SID)</li> </ul> |

**8.52.4.7** void DCM::DeviceControl::GetServiceBU\_Params2 ( in IPS\_Service\_t *OutService*, out ServiceBackupParams2\_t *ServiceBackupParams2* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the ServiceBackup parameters of an output service.

Supported from V6.0 onwards.

**Parameters**

|     |                              |                                                                      |
|-----|------------------------------|----------------------------------------------------------------------|
| in  | <i>OutService</i>            | specifies BoardNr, PortNr, TS and output SID to get the BU-params of |
| out | <i>ServiceBackup-Params2</i> | BU-parameters                                                        |

**Exceptions**

|                       |                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                             |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutputService reference (BoardNr, PortNr, TS and SID)</li> </ul> |

**8.52.4.8** void DCM::DeviceControl::GetServiceBU\_SwitchToGoodSrcOnly ( in unsigned short *Board*, out boolean *Enabled* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets for service backup if the switch to the backup service will only happen if this service is not in alarm.

**Parameters**

|     |                |                                                                                            |
|-----|----------------|--------------------------------------------------------------------------------------------|
| in  | <i>Board</i>   |                                                                                            |
| out | <i>Enabled</i> | TRUE if the switch to the backup service will only happen if this service is not in alarm. |

**Exceptions**

|                       |                              |
|-----------------------|------------------------------|
| <i>OpNotSupported</i> | when Board = 0 = Main board. |
| <i>OpNotSucceeded</i> | if Board is invalid          |

**8.52.4.9** void DCM::DeviceControl::OutTS\_BU\_SvcSource\_ActivateL ( in IPS\_Ref\_t *PhysRef*, in TsOutSvcSourceSelectionList\_t *TsOutSvcSourceSelectionList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Lets the user activate for all active alternate output services of one or more output transport streams, the main or backup service sources.

(also for all active merged services)

#### Parameters

|    |                                    |                                                      |
|----|------------------------------------|------------------------------------------------------|
| in | <i>PhysRef</i>                     | The port the OutTS are attached to. ANY_PORT allowed |
| in | <i>TsOutSvcSourceSelectionList</i> | List of RefTs/SvcSourceSelection                     |

#### Exceptions

|                       |                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>        | A timeout occurred during IIOP processing.                                                                                                                                                       |
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                                                                                                   |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• PhysRef does not exist</li> <li>• ServiceSourcePriority_t out of range</li> <li>• RefTs does not match PhysRef or cannot be found</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                   |

#### Version

Release 8.0

**8.52.4.10** void DCM::DeviceControl::SetActiveInputService ( in IPS\_Service\_t *OutService*, in IPS\_Service\_t *InMergeSvcSource*, in IPS\_Service\_t *ActiveInService* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Lets the user activate for a certain output service, the input service to be used.

If it appears that the chosen input service is in alarm, the input will automatically switch to another backup input service after the specified delay time. If the revertive setting is activated then the service will switch back to the original service if that service is active

#### Parameters

|    |                         |                                                                               |
|----|-------------------------|-------------------------------------------------------------------------------|
| in | <i>OutService</i>       | Service where the active source should be set.                                |
| in | <i>InMergeSvcSource</i> | Merged service reference for wich a certain input service source is activated |
| in | <i>ActiveInService</i>  | Input service source to be activated                                          |

#### Exceptions

|                       |                                |
|-----------------------|--------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board. |
| <i>OpNotSucceeded</i> | Invalid service reference.     |

**8.52.4.11** void DCM::DeviceControl::SetActiveInputService\_V2 ( in IPS\_Service\_t *OutService*, in AltSrcMergeActiveInSvc\_t *AltSrcMergeActiveInSvc* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Lets the user activate for a certain output service, the input service to be used.

#### Parameters

|    |                               |                                                |
|----|-------------------------------|------------------------------------------------|
| in | <i>OutService</i>             | Service where the active source should be set. |
| in | <i>AltSrcMergeActiveInSvc</i> | the backup service to activate                 |

#### Exceptions

|                       |                                |
|-----------------------|--------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board. |
| <i>OpNotSucceeded</i> | Invalid service reference.     |

#### Version

Release 7.1

**8.52.4.12** void DCM::DeviceControl::SetServiceBU\_BackupL ( in IPS\_Service\_t *OutService*, in BackupSrvTableList\_t *BackupSrvList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the ServiceBackupList of an output service.

#### Parameters

|    |                      |                                                                        |
|----|----------------------|------------------------------------------------------------------------|
| in | <i>OutService</i>    | specifies BoardNr, PortNr, TS and output SID to set the BuSrv-List for |
| in | <i>BackupSrvList</i> | List of backup input services                                          |

#### Exceptions

|                       |                                                                                                                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                                                                                                                     |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutputService reference (BoardNr, PortNr, TS and SID)</li> <li>number of backup services in BackupSrvList.BackupSvcList.BackupService &gt; 1.</li> </ul> |

#### Note

Only one backup service can be specified

From Release V8.2.87 onwards it is possible to specify up to 8 backup services

**8.52.4.13** void DCM::DeviceControl::SetServiceBU\_BackupL\_V2 ( in IPS\_Service\_t *OutService*, in AltSrcBU\_Setting\_t *AltSrcBU\_Setting* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the ServiceBackupList of an output service for a certian alternate source.

**Parameters**

|    |                         |                                                                        |
|----|-------------------------|------------------------------------------------------------------------|
| in | <i>OutService</i>       | specifies BoardNr, PortNr, TS and output SID to set the BuSrv-List for |
| in | <i>AltSrcBU-Setting</i> | The settings that contain the backup sources                           |

**Exceptions**

|                       |                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                                                                                                                  |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutService reference (BoardNr, PortNr, TS and SID)</li> <li>number of backup services in BackupSrvList.BackupSvcList.BackupService &gt; 1.</li> </ul> |

**Note**

Only one backup service can be specified

From Release V8.2.87 onwards it is possible to specify up to 8 backup services

**Version**

Release 7.1

**8.52.4.14** void DCM::DeviceControl::SetServiceBU\_Params ( in IPS\_Service\_t *OutService*, in ServiceBackupParams\_t *ServiceBackupParams* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the ServiceBackup parameters for an output service.

Obsolete from V6.0 onwards.

**Parameters**

|    |                             |                                                                       |
|----|-----------------------------|-----------------------------------------------------------------------|
| in | <i>OutService</i>           | specifies BoardNr, PortNr, TS and output SID to set the BU-params for |
| in | <i>ServiceBackup-Params</i> | BU-parameters                                                         |

**Exceptions**

|                       |                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                          |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutService reference (BoardNr, PortNr, TS and SID)</li> </ul> |

**8.52.4.15** void DCM::DeviceControl::SetServiceBU\_Params2 ( in IPS\_Service\_t *OutService*, in ServiceBackupParams2\_t *ServiceBackupParams2* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the ServiceBackup parameters for an output service.

Supported from V6.0 onwards.



**Parameters**

|    |                              |                                                                       |
|----|------------------------------|-----------------------------------------------------------------------|
| in | <i>OutService</i>            | specifies BoardNr, PortNr, TS and output SID to set the BU-params for |
| in | <i>ServiceBackup-Params2</i> | BU-parameters                                                         |

**Exceptions**

|                       |                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                                                                                         |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• Invalid OutService reference (BoardNr, PortNr, TS and SID)</li> <li>• Invalid mode specified in the ServiceBackupParams</li> </ul> |

**8.52.4.16** void DCM::DeviceControl::SetServiceBU\_SwitchToGoodSrcOnly ( in unsigned short *Board*, in boolean *Enabled* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets for service backup that the switch to the backup service will only happen if this service is not in alarm.

**Parameters**

|    |                |                                                                                            |
|----|----------------|--------------------------------------------------------------------------------------------|
| in | <i>Board</i>   |                                                                                            |
| in | <i>Enabled</i> | TRUE if the switch to the backup service will only happen if this service is not in alarm. |

**Exceptions**

|                       |                              |
|-----------------------|------------------------------|
| <i>OpNotSupported</i> | when Board = 0 = Main board. |
| <i>OpNotSucceeded</i> | if Board is invalid          |

## 8.53 TS and Service Backup

Collaboration diagram for TS and Service Backup:



### Classes

- struct `DCM::DeviceControl::ServiceLossTrigger_t`
- struct `DCM::DeviceControl::TS_LossTrigger_t`

### Typedefs

- typedef unsigned long `DCM::DeviceControl::TriggerBitmap_t`  
*Bitmap of triggers.*
- typedef sequence < `ServiceLossTrigger_t` > `DCM::DeviceControl::ServiceLossTriggerList_t`  
*A sequence of `ServiceLossTrigger_t`.*
- typedef sequence < `TS_LossTrigger_t` > `DCM::DeviceControl::TS_LossTriggerList_t`  
*A sequence of `TS_LossTrigger_t`.*

### Functions

- void `DCM::DeviceControl::SetDefaultServiceLossTriggers` (in `IPS_Ref_t RefPhys`, in `TriggerBitmap_t TriggerBitmap`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the default Service Loss Alarm triggers.*
- void `DCM::DeviceControl::GetDefaultServiceLossTriggers` (in `IPS_Ref_t RefPhys`, out `TriggerBitmap_t TriggerBitmap`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the default Service Loss Alarm triggers.*
- void `DCM::DeviceControl::SetDefaultTS_LossTriggers` (in unsigned short Board, in `TriggerBitmap_t TriggerBitmap`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the default TS Loss Alarm triggers.*
- void `DCM::DeviceControl::GetDefaultTS_LossTriggers` (in unsigned short Board, out `TriggerBitmap_t TriggerBitmap`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the default TS Loss Alarm triggers.*
- void `DCM::DeviceControl::SetServiceLossTriggers` (in `IPS_RefTS_t RefTS`, in `ServiceLossTriggerList_t TriggerList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the service loss triggers for specified services on given TS.*
- void `DCM::DeviceControl::ResetServiceLossTriggers` (in `IPS_RefTS_t RefTS`, in `ServiceIdList_t InputSidList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Reset the service loss triggers for specified services on given TS.*

- void [DCM::DeviceControl::GetServiceLossTriggers](#) (in IPS\_RefTS\_t RefTS, in ServiceIdList\_t - InputSidList, out ServiceLossTriggerList\_t TriggerList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the service loss triggers for all or specified input services on given Port and TS.*
- void [DCM::DeviceControl::SetTS\\_LossTriggers](#) (in IPS\_Ref\_t Ref, in TS\_LossTriggerList\_t TriggerList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the TS loss triggers for specified TS's on given port.*
- void [DCM::DeviceControl::ResetTS\\_LossTriggers](#) (in IPS\_Ref\_t Ref, in Ref\_List\_t RefList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Reset the TS loss triggers for specified TS's on given port.*
- void [DCM::DeviceControl::GetTS\\_LossTriggers](#) (in IPS\_Ref\_t Ref, in Ref\_List\_t RefList, out TS\_LossTriggerList\_t TriggerList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the TS loss triggers for all or specified input TS's on given Port.*

### 8.53.1 Typedef Documentation

#### 8.53.1.1 typedef sequence< ServiceLossTrigger\_t > DCM::DeviceControl::ServiceLossTriggerList\_t

A sequence of [ServiceLossTrigger\\_t](#).

Definition at line 20851 of file DCM.idl.

#### 8.53.1.2 typedef unsigned long DCM::DeviceControl::TriggerBitmap\_t

Bitmap of triggers.

For service loss triggers the bits have following meaning.

- bit 0: indicates that active link loss should be used as trigger. (Supported after 3.0).
- bit 1: indicates that UDP loss should be used as trigger. (Supported after 3.0).
- bit 2: indicated that UDP stream loss should be used as trigger.
- bit 3: indicates that ASI/8VSB/DVBS2 sync loss should be used as trigger.
- bit 4: indicates that any pid error should be used as trigger.
- bit 5: indicates that "smart" pid error should be used as trigger. (Supported after 3.0).
- bit 6: indicates that a pid list error should be used as trigger.
- bit 7: indicates that PMT error should be used as trigger.
- bit 8: indicates that missing in PAT should be used as trigger (only for routed services).
- bit 9: indicates that a scrambled input should be used as trigger (Supported after 4.5).
- bit 10: indicates that any pid bitrate too low should be used as trigger.
- bit 11: indicates that "smart" bitrate too low should be used as trigger.
- bit 12: indicates that a pid list for bitrate too low should be used as trigger.
- bit 13: indicates that hardware GPI contact 1 should be used as trigger.
- bit 14: indicates that hardware GPI contact 2 should be used as trigger.

- bit 15: indicates that hardware GPI contact 3 should be used as trigger.
- bit 16: indicates that hardware GPI contact 4 should be used as trigger.
- bit 17: indicates that hardware GPI contact 5 should be used as trigger.
- bit 18: indicates that a not descrambled pid should be used as trigger (from 8.9 on).
- bit 19: indicates that an attempt to descramble a pid in the clear should be used as trigger (from 8.9 on).
- bit 20: indicates that MFP video loss should be used as trigger (from 10.1 on).
- bit 21: indicates that MFP audio loss should be used as trigger (from 10.10 on).
- bit 22: indicates that MFP SD/HD mismatch should be used as trigger (from 11.10 on).
- bit 23: indicates that MFP MPEG/AVC mismatch should be used as trigger (from 11.10 on).

For TS loss triggers the bits have following meaning.

- bit 0: indicates that active link loss should be used as trigger. (Supported from 7.1 onwards).
- bit 1: indicates that UDP loss should be used as trigger. (Supported from 7.1 onwards).
- bit 2: indicated that UDP stream loss should be used as trigger.
- bit 3: indicates that ASI sync loss should be used as trigger.
- bit 4: indicates that sync byte error should be used as trigger.
- bit 5: indicates that service loss should be used as trigger.
- bit 6: indicates that PAT error should be used as trigger. (Supported from 7.1 onwards).
- bit 7: indicates that a not descrambled pid should be used as trigger (from 8.9 on).

Definition at line 20786 of file DCM.idl.

#### 8.53.1.3 typedef sequence<TS\_LossTrigger\_t> DCM::DeviceControl::TS\_LossTriggerList\_t

A sequence of [TS\\_LossTrigger\\_t](#).

Definition at line 20916 of file DCM.idl.

### 8.53.2 Function Documentation

**8.53.2.1** void DCM::DeviceControl::GetDefaultServiceLossTriggers ( in IPS\_Ref\_t *RefPhys*, out TriggerBitmap\_t *TriggerBitmap* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default Service Loss Alarm triggers.

#### Parameters

|     |                      |                               |
|-----|----------------------|-------------------------------|
| in  | <i>RefPhys</i>       | specifies BoardNr and PortNr. |
| out | <i>TriggerBitmap</i> |                               |

**Exceptions**

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                           |
| <i>OpNotSucceeded</i> | in case of invalid references RefPhys (BoardNr, PortNr). |

**8.53.2.2** void DCM::DeviceControl::GetDefaultTS\_LossTriggers ( in unsigned short *Board*, out TriggerBitmap\_t *TriggerBitmap* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default TS Loss Alarm triggers.

**Parameters**

|     |                      |                    |
|-----|----------------------|--------------------|
| in  | <i>Board</i>         | specifies BoardNr. |
| out | <i>TriggerBitmap</i> |                    |

**Exceptions**

|                       |                                |
|-----------------------|--------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board. |
|-----------------------|--------------------------------|

**8.53.2.3** void DCM::DeviceControl::GetServiceLossTriggers ( in IPS\_RefTS\_t *RefTS*, in ServiceIdList\_t *InputSidList*, out ServiceLossTriggerList\_t *TriggerList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the service loss triggers for all or specified input services on given Port and TS.

**Parameters**

|     |                     |                                                                                   |
|-----|---------------------|-----------------------------------------------------------------------------------|
| in  | <i>RefTS</i>        | specifies BoardNr, PortNr and TS. wildcard RefTS.Ref == INVALID_REF for all TS's. |
| in  | <i>InputSidList</i> | when empty, the triggers for ALL services are given.                              |
| out | <i>TriggerList</i>  |                                                                                   |

**Exceptions**

|                       |                                                                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                                                                                                 |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid reference RefTS (BoardNr, PortNr and TS).</li> <li>Not existent TS or not an input TS.</li> <li>Not existent service ID's</li> </ul> |

**Note**

TriggerList.PidList will be empty if bit 6 (PID list error) or bit 12 (PID list bitrate error) of TriggerList.TriggerBitmap is FALSE. Not supported bits in TriggerList.TriggerBitmap will always be 0.

**8.53.2.4** void DCM::DeviceControl::GetTS\_LossTriggers ( in IPS\_Ref\_t *Ref*, in Ref\_List\_t *RefList*, out TS\_LossTriggerList\_t *TriggerList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the TS loss triggers for all or specified input TS's on given Port.

**Parameters**

|     |                    |                                                                               |
|-----|--------------------|-------------------------------------------------------------------------------|
| in  | <i>Ref</i>         | specifies BoardNr, PortNr. wildcard Ref.PortNr == INVALID_PORT for all ports. |
| in  | <i>RefList</i>     | when empty, the triggers for ALL TS's are given.                              |
| out | <i>TriggerList</i> |                                                                               |

**Exceptions**

|                       |                                                                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                                                       |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid reference RefTS (BoardNr, PortNr).</li> <li>Not existent TS or not an input TS.</li> </ul> |

**Remarks**

Not supported bits in TriggerList.TriggerBitmap will always be 0.  
When no input TS's are found on given port, an empty list is returned.

**8.53.2.5** void DCM::DeviceControl::ResetServiceLossTriggers ( in IPS\_RefTS\_t *RefTS*,  
in ServiceIdList\_t *InputSidList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed,  
OpNotSupported)

Reset the service loss triggers for specified services on given TS.

This call serves to let given service(s) follow the default. The service specific bitmap and eventual pid list are cleared.

**Parameters**

|    |                     |                                                                                 |
|----|---------------------|---------------------------------------------------------------------------------|
| in | <i>RefTS</i>        | specifies BoardNr, PortNr.and TS.                                               |
| in | <i>InputSidList</i> | When empty the triggers for ALL services are reset to follow the default again. |

**Exceptions**

|                       |                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                                                              |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid reference RefTS (BoardNr, PortNr and TS).</li> <li>Not existent TS or not an input TS.</li> </ul> |

**8.53.2.6** void DCM::DeviceControl::ResetTS\_LossTriggers ( in IPS\_Ref\_t *Ref*, in Ref\_List\_t *RefList*  
) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Reset the TS loss triggers for specified TS's on given port.

This call serves to let given TS(s) follow the board default. The TS specific bitmap is cleared.

**Parameters**

|    |            |                            |
|----|------------|----------------------------|
| in | <i>Ref</i> | specifies BoardNr, PortNr. |
|----|------------|----------------------------|

|    |                |                                                                             |
|----|----------------|-----------------------------------------------------------------------------|
| in | <i>RefList</i> | When empty the triggers for ALL TS's are reset to follow the default again. |
|----|----------------|-----------------------------------------------------------------------------|

**Exceptions**

|                       |                                                                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                                                                                                           |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• Invalid reference Ref (BoardNr, PortNr).</li> <li>• Not existent TS or not an input TS.</li> <li>• No input TS's are found on given port.</li> </ul> |

**8.53.2.7** void DCM::DeviceControl::SetDefaultServiceLossTriggers ( in IPS\_Ref\_t *RefPhys*, in TriggerBitmap\_t *TriggerBitmap* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default Service Loss Alarm triggers.

**Parameters**

|    |                      |                               |
|----|----------------------|-------------------------------|
| in | <i>RefPhys</i>       | specifies BoardNr and PortNr. |
| in | <i>TriggerBitmap</i> |                               |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• Invalid references RefPhys (BoardNr, PortNr).</li> <li>• if not supported TriggerBitmap bits are used (higher than 17).</li> <li>• if TriggerBitmap bit 2 (UDP stream loss) is enabled on an ASI board.</li> <li>• if TriggerBitmap bit 3 (ASI sync loss) is enabled on a GBE board.</li> <li>• if TriggerBitmap bit 6 (pid list error) is enabled. Is not allowed as default setting.</li> <li>• if TriggerBitmap bits 4 (any pid error), 5 (smart pid error) and 6 (pid list error) are enabled together.</li> <li>• if TriggerBitmap bit 12 (pid list bitrate error) is enabled. Is not allowed as default setting.</li> <li>• if TriggerBitmap bits 10 (any pid bitrate error), 11 (smart pid bitrate error) and 12 (pid list bitrate error) are enabled together.</li> <li>• if TriggerBitmap contains a combination of more than one of the bits 13 to 17, only 1 GPI pin can be set as a trigger.</li> <li>• if TriggerBitmap bit 13 is set, GPI pin 1 is reserved for IPSec.</li> </ul> |

**8.53.2.8** void DCM::DeviceControl::SetDefaultTS\_LossTriggers ( in unsigned short *Board*, in TriggerBitmap\_t *TriggerBitmap* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default TS Loss Alarm triggers.

**Parameters**

|    |                      |                    |
|----|----------------------|--------------------|
| in | <i>Board</i>         | specifies BoardNr. |
| in | <i>TriggerBitmap</i> |                    |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                                                                                                                                                                                                                                      |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• If not supported TriggerBitmap bits are used (bit 7 and higher).</li> <li>• If TriggerBitmap bit 0 (link loss), bit 1 (UDP loss) or bit 2 (UDP stream loss) is enabled on an ASI board.</li> <li>• If TriggerBitmap bit 3 (ASI sync loss) is enabled on a GBE board.</li> </ul> |

**8.53.2.9** void DCM::DeviceControl::SetServiceLossTriggers ( in IPS\_RefTS\_t *RefTS*, in ServiceLossTriggerList\_t *TriggerList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the service loss triggers for specified services on given TS.

**Parameters**

|    |                    |                                  |
|----|--------------------|----------------------------------|
| in | <i>RefTS</i>       | specifies BoardNr, PortNr.and TS |
| in | <i>TriggerList</i> |                                  |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• Invalid reference RefTS (BoardNr, PortNr and TS).</li> <li>• Not existent TS or not an input TS.</li> <li>• TriggerList.Service.RefTS different from RefTS.</li> <li>• If not supported TriggerBitmap bits are used (bits higher than 17).</li> <li>• If TriggerBitmap bit 2 (UDP stream loss) is enabled on an ASI board.</li> <li>• If TriggerBitmap bit 3 (ASI sync loss) is enabled on a GBE board.</li> <li>• If TriggerBitmap bits 4 (any pid error), 5 (smart pid error) and 6 (pid list error) are enabled together.</li> <li>• If TriggerBitmap bit 6 (pid list error) is enabled with an empty PidList.</li> <li>• If TriggerBitmap bits 10 (any pid bitrate error), 11 (smart pid bitrate error) and 12 (pid list bitrate error) are enabled together.</li> <li>• If TriggerBitmap bit 12 (pid list error) is enabled with an empty PidList.</li> <li>• if TriggerBitmap contains a combination of more than one of the bits 13 to 17, only 1 GPI pin can be set as a trigger.</li> <li>• if TriggerBitmap bit 13 is set, GPI pin 1 is reserved for IPSec.</li> </ul> |



**8.53.2.10** void DCM::DeviceControl::SetTS\_LossTriggers ( in IPS\_Ref\_t *Ref*, in TS\_LossTriggerList\_t *TriggerList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the TS loss triggers for specified TS's on given port.

#### Parameters

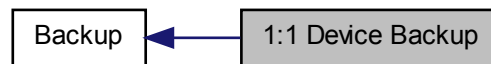
|    |                    |                            |
|----|--------------------|----------------------------|
| in | <i>Ref</i>         | specifies BoardNr, PortNr. |
| in | <i>TriggerList</i> |                            |

#### Exceptions

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• Invalid reference Ref (BoardNr, PortNr)</li> <li>• Not existent TS or not an input TS.</li> <li>• TriggerList.RefTS.PhysRef different from Ref.</li> <li>• If not supported TriggerBitmap bits are used (bit 7 and higher).</li> <li>• If TriggerBitmap bit 0 (link loss), bit 1 (UDP loss) or bit 2 (UDP stream loss) is enabled on an ASI board.</li> <li>• If TriggerBitmap bit 3 (ASI sync loss) is enabled on a GBE board.</li> </ul> |

## 8.54 1:1 Device Backup

Collaboration diagram for 1:1 Device Backup:



### Classes

- struct `DCM::DeviceControl::DeviceBackupLink_t`  
*Configuration of a link between 2 devices for use with Device Backup.*
- struct `DCM::DeviceControl::DeviceBackupParams_t`
- struct `DCM::DeviceControl::DeviceBackupParamsV2_t`  
*Following combinations of Roles and Modes are valid:*
- struct `DCM::DeviceControl::AlarmTriggerRule_t`
- struct `DCM::DeviceControl::RestoreOption`  
*Single settings restore option.*
- struct `DCM::DeviceControl::RestoreOption_V2`  
*Single settings restore option.*

### Typedefs

- typedef sequence < DeviceBackupLink\_t > `DCM::DeviceControl::DeviceBackupLinkList_t`
- typedef sequence < AlarmTriggerRule\_t > `DCM::DeviceControl::AlarmTriggerRuleList`
- typedef sequence < RestoreOption > `DCM::DeviceControl::RestoreOptions`  
*List of options.*
- typedef sequence < RestoreOption\_V2 > `DCM::DeviceControl::RestoreOptions_V2`  
*List of options.*

### Enumerations

- enum `DCM::DeviceControl::eDeviceActiveMode` { `DCM::DeviceControl::DeviceMode_Active`, `DCM::DeviceControl::DeviceMode_Inactive` }
- enum `DCM::DeviceControl::eDeviceRole` { `DCM::DeviceControl::DeviceRole_Standalone`, `DCM::DeviceControl::DeviceRole_Main`, `DCM::DeviceControl::DeviceRole_Backup` }
- enum `DCM::DeviceControl::eDeviceRole_V2` { `DCM::DeviceControl::DeviceRole_V2_Standalone`, `DCM::DeviceControl::DeviceRole_V2_Main`, `DCM::DeviceControl::DeviceRole_V2_Backup`, `DCM::DeviceControl::DeviceRole_V2_Single`, `DCM::DeviceControl::DeviceRole_V2_LiveLive`, `DCM::DeviceControl::DeviceRole_V2_Reserved_005`, `DCM::DeviceControl::DeviceRole_V2_Reserved_004`, `DCM::DeviceControl::DeviceRole_V2_Reserved_003`, `DCM::DeviceControl::DeviceRole_V2_Reserved_002`, `DCM::DeviceControl::DeviceRole_V2_Reserved_001` }

- enum `DCM::DeviceControl::eDBURevertMode` { `DCM::DeviceControl::DBURevertMode_None`, `DCM::DeviceControl::DBURevertMode_Revertive`, `DCM::DeviceControl::DBURevertMode_Floating`, `DCM::DeviceControl::DBURevertMode_Reserved_003`, `DCM::DeviceControl::DBURevertMode_Reserved_004`, `DCM::DeviceControl::DBURevertMode_Reserved_005` }
- enum `DCM::DeviceControl::eActivationMode` { `DCM::DeviceControl::ActivationMode_Active`, `DCM::DeviceControl::ActivationMode_Inactive`, `DCM::DeviceControl::ActivationMode_Auto` }
- enum `DCM::DeviceControl::eRestoreOption` { `DCM::DeviceControl::Restore_NoGbeNetwork`, `DCM::DeviceControl::Restore_NoDeviceBackup`, `DCM::DeviceControl::Restore_NoSCS`, `DCM::DeviceControl::Restore_NoSettingsBackup`, `DCM::DeviceControl::Restore_NoNTP`, `DCM::DeviceControl::Restore_NoIPsec`, `DCM::DeviceControl::Restore_NoStaticRouteMB`, `DCM::DeviceControl::Restore_NoDcCfgMgr`, `DCM::DeviceControl::Restore_NoIcmpV2GbE`, `DCM::DeviceControl::Restore_NoBasicNetwork` }

*Single settings restore option type. Deprecated, use the V2 versions instead.*

- enum `DCM::DeviceControl::eRestoreSettingsResult` { `DCM::DeviceControl::Restore_Done`, `DCM::DeviceControl::Restore_Reboot`, `DCM::DeviceControl::Restore_Busy`, `DCM::DeviceControl::Restore_Error`, `DCM::DeviceControl::Restore_Result_Reserved1`, `DCM::DeviceControl::Restore_Result_Reserved2`, `DCM::DeviceControl::Restore_Result_Reserved3`, `DCM::DeviceControl::Restore_Result_Reserved4` }

*Result of the settings restore call.*

- enum `DCM::DeviceControl::eRestoreOption_V2` { `DCM::DeviceControl::Restore_V2_NoGbeNetwork`, `DCM::DeviceControl::Restore_V2_NoDeviceBackup`, `DCM::DeviceControl::Restore_V2_NoSCS`, `DCM::DeviceControl::Restore_V2_NoSettingsBackup`, `DCM::DeviceControl::Restore_V2_NoNTP`, `DCM::DeviceControl::Restore_V2_NoIPsec`, `DCM::DeviceControl::Restore_V2_NoStaticRouteMB`, `DCM::DeviceControl::Restore_V2_NoDcCfgMgr`, `DCM::DeviceControl::Restore_V2_NoIcmpV2GbE`, `DCM::DeviceControl::Restore_V2_NoBasicNetwork`, `DCM::DeviceControl::Restore_V2_NoPsbSec`, `DCM::DeviceControl::Restore_V2_Reserved_20`, `DCM::DeviceControl::Restore_V2_Reserved_19`, `DCM::DeviceControl::Restore_V2_Reserved_18`, `DCM::DeviceControl::Restore_V2_Reserved_17`, `DCM::DeviceControl::Restore_V2_Reserved_16`, `DCM::DeviceControl::Restore_V2_Reserved_15`, `DCM::DeviceControl::Restore_V2_Reserved_14`, `DCM::DeviceControl::Restore_V2_Reserved_13`, `DCM::DeviceControl::Restore_V2_Reserved_12`, `DCM::DeviceControl::Restore_V2_Reserved_11`, `DCM::DeviceControl::Restore_V2_Reserved_10`, `DCM::DeviceControl::Restore_V2_Reserved_9`, `DCM::DeviceControl::Restore_V2_Reserved_8`, `DCM::DeviceControl::Restore_V2_Reserved_7`, `DCM::DeviceControl::Restore_V2_Reserved_6`, `DCM::DeviceControl::Restore_V2_Reserved_5`, `DCM::DeviceControl::Restore_V2_Reserved_4`, `DCM::DeviceControl::Restore_V2_Reserved_3`, `DCM::DeviceControl::Restore_V2_Reserved_2`, `DCM::DeviceControl::Restore_V2_Reserved_1` }

*Single settings restore option type.*

## Functions

- void `DCM::DeviceControl::SetDeviceActiveMode` (in `eDeviceActiveMode DeviceActiveMode`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the device mode.*
- void `DCM::DeviceControl::GetDeviceActiveMode` (out `eDeviceActiveMode DeviceActiveMode`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Query the device mode.*
- void `DCM::DeviceControl::SetPowerupDeviceActiveMode` (in `eDeviceActiveMode DeviceActiveMode`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the power-up device mode.*
- void `DCM::DeviceControl::GetPowerupDeviceActiveMode` (out `eDeviceActiveMode DeviceActiveMode`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the power-up device mode.*

- void **DCM::DeviceControl::GetPeerDeviceActiveMode** (out eDeviceActiveMode DeviceActiveMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the peer device mode.*

- void **DCM::DeviceControl::SetDeviceBU\_Params** (in DeviceBackupParams\_t DeviceBackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the parameters to be used by Device Backup.*

- void **DCM::DeviceControl::GetDeviceBU\_Params** (out DeviceBackupParams\_t DeviceBackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the parameters used by Device Backup.*

- void **DCM::DeviceControl::SetDeviceBU\_ParamsV2** (in DeviceBackupParamsV2\_t DeviceBackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the parameters to be used by Device Backup.*

- void **DCM::DeviceControl::GetDeviceBU\_ParamsV2** (out DeviceBackupParamsV2\_t DeviceBackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the parameters used by Device Backup.*

- void **DCM::DeviceControl::DeviceBU\_ActivateDevice** () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Instructs this device to gracefully become the active device.*

- void **DCM::DeviceControl::SetIP\_AliasMode** (in IPS\_Ref\_t RefPhys, in eActivationMode ActivationMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set activation mode for the list of IP aliases associated with a specific network interface.*

- void **DCM::DeviceControl::GetIP\_AliasMode** (in IPS\_Ref\_t RefPhys, out eActivationMode ActivationMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get activation mode for the list of IP aliases associated with a specific network interface.*

- void **DCM::DeviceControl::SetIP\_AliasList** (in IPS\_Ref\_t RefPhys, in IP\_List\_t IP\_Addresses) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the list of IP aliases associated with a specific network interface.*

- void **DCM::DeviceControl::GetIP\_AliasList** (in IPS\_Ref\_t RefPhys, out IP\_List\_t IP\_Addresses) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list of IP aliases associated with a specific network interface.*

- void **DCM::DeviceControl::SetDeviceBackupTriggers** (in MM\_IDList Triggers) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the list of triggers that define when a backup is needed.*

- void **DCM::DeviceControl::GetDeviceBackupTriggers** (out MM\_IDList Triggers) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the list of triggers that define when a backup is needed.*

- void **DCM::DeviceControl::SetCardNotOperationalTriggers** (in unsigned short Board, in AlarmTriggerRuleList Rules) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set list alarm trigger rules for CardNotOperational.*

- void **DCM::DeviceControl::GetCardNotOperationalTriggers** (in unsigned short Board, out AlarmTriggerRuleList Rules) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get list alarm trigger rules for CardNotOperational.*

- void **DCM::DeviceControl::GetActiveCardNotOperTriggers** (in unsigned short Board, out MM\_IDList ActiveAlarms) raises (TimeOut, OpNotAllowed, OpNotSupported)

*Get list measurement references of all active alarms configured as trigger for backup.*

- void **DCM::DeviceControl::GetSettingsRestoreOptions** (out RestoreOptions options) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the restore options.*

- void [DCM::DeviceControl::SetSettingsRestoreOptions](#) (in RestoreOptions options) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set restore options.*
- void [DCM::DeviceControl::BackupSettings](#) (out ByteStream settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieve settings from the device.*
- void [DCM::DeviceControl::RestoreSettings](#) (in ByteStream settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Restore settings onto the device.*
- void [DCM::DeviceControl::BackupSettings2](#) (in unsigned short scope, out ByteStream settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieve settings from the device.*
- void [DCM::DeviceControl::RestoreSettings2](#) (in unsigned short scope, in ByteStream settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Restore settings onto the device.*
- void [DCM::DeviceControl::RestoreSettings3](#) (in unsigned short scope, in ByteStream settings, in boolean bReturnEarly, out eRestoreSettingsResult Result) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Restore settings onto the device and try to do this seamless.*
- void [DCM::DeviceControl::PollRestoreSettingsResult](#) (out eRestoreSettingsResult Result) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Check if the asynchronously launched RestoreSettingsAsync call has finished its job (poll for its status).*
- void [DCM::DeviceControl::GetSettingsRestoreOptions\\_V2](#) (out RestoreOptions\_V2 options) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the restore options.*
- void [DCM::DeviceControl::SetSettingsRestoreOptions\\_V2](#) (in RestoreOptions\_V2 options) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set restore options.*

### 8.54.1 Typedef Documentation

#### 8.54.1.1 typedef sequence<AlarmTriggerRule\_t> DCM::DeviceControl::AlarmTriggerRuleList

Definition at line 21410 of file DCM.idl.

#### 8.54.1.2 typedef sequence<DeviceBackupLink\_t> DCM::DeviceControl::DeviceBackupLinkList\_t

Definition at line 21133 of file DCM.idl.

#### 8.54.1.3 typedef sequence<RestoreOption> DCM::DeviceControl::RestoreOptions

List of options.

Definition at line 21483 of file DCM.idl.

#### 8.54.1.4 typedef sequence<RestoreOption\_V2> DCM::DeviceControl::RestoreOptions\_V2

List of options.

Definition at line 21695 of file DCM.idl.

### 8.54.2 Enumeration Type Documentation

#### 8.54.2.1 enum DCM::DeviceControl::eActivationMode

Enumerator:

*ActivationMode\_Active*  
*ActivationMode\_Inactive*  
*ActivationMode\_Auto*

Definition at line 21267 of file DCM.idl.

#### 8.54.2.2 enum DCM::DeviceControl::eDBURevertMode

Enumerator:

*DBURevertMode\_None* Device requires manual action after failover.  
*DBURevertMode\_Revertive* Device reverts to main when failure solved.  
*DBURevertMode\_Floating* Active device remains active until failure regardless of main/backup setting.  
*DBURevertMode\_Reserved\_003*  
*DBURevertMode\_Reserved\_004*  
*DBURevertMode\_Reserved\_005*

Definition at line 21105 of file DCM.idl.

#### 8.54.2.3 enum DCM::DeviceControl::eDeviceActiveMode

Enumerator:

*DeviceMode\_Active* Device is the active device.  
*DeviceMode\_Inactive* Device is the inactive device.

Definition at line 21000 of file DCM.idl.

#### 8.54.2.4 enum DCM::DeviceControl::eDeviceRole

Enumerator:

*DeviceRole\_Standalone* Device does not take part in device backup or is managed externally (e.g. ROSA EM)  
*DeviceRole\_Main* Device is main device.  
*DeviceRole\_Backup* Device is backup device.

Definition at line 21082 of file DCM.idl.

#### 8.54.2.5 enum DCM::DeviceControl::eDeviceRole\_V2

Enumerator:

*DeviceRole\_V2\_Standalone* Device does not take part in device backup or is managed externally (e.g. ROSA EM)  
*DeviceRole\_V2\_Main* Device is main device.  
*DeviceRole\_V2\_Backup* Device is backup device.

***DeviceRole\_V2\_Single*** Device acts solely upon its own status.

***DeviceRole\_V2\_LiveLive*** Device is in a live-live configuration.

***DeviceRole\_V2\_Reserved\_005***

***DeviceRole\_V2\_Reserved\_004***

***DeviceRole\_V2\_Reserved\_003***

***DeviceRole\_V2\_Reserved\_002***

***DeviceRole\_V2\_Reserved\_001***

Definition at line 21090 of file DCM.idl.

#### 8.54.2.6 enum DCM::DeviceControl::eRestoreOption

Single settings restore option type. Deprecated, use the V2 versions instead.

Enumerator:

***Restore\_NoGbeNetwork*** Exclude GbE Network settings (basic + vlan + igmp)

***Restore\_NoDeviceBackup*** Exclude 1:1 Device Backup settings.

***Restore\_NoSCS*** Exclude SCS settings.

***Restore\_NoSettingsBackup*** Exclude Settings Backup's own settings.

***Restore\_NoNTP*** Exclude NTP's drift file.

***Restore\_NoIPsec*** Exclude the IPsec settings file.

***Restore\_NoStaticRouteMB*** Exclude static routes for mainboard settings file.

***Restore\_NoDcCfgMgr*** Exclude DcCfgMgr settings.

***Restore\_NoIgmpV2GbE*** Exclude IgmpV2GbE settings (igmp)

***Restore\_NoBasicNetwork*** Exclude Basic network settings (basic)

Definition at line 21461 of file DCM.idl.

#### 8.54.2.7 enum DCM::DeviceControl::eRestoreOption\_V2

Single settings restore option type.

Enumerator:

***Restore\_V2\_NoGbeNetwork*** Exclude GbE Network settings (basic + vlan + igmp)

***Restore\_V2\_NoDeviceBackup*** Exclude 1:1 Device Backup settings.

***Restore\_V2\_NoSCS*** Exclude SCS settings.

***Restore\_V2\_NoSettingsBackup*** Exclude Settings Backup's own settings.

***Restore\_V2\_NoNTP*** Exclude NTP's drift file.

***Restore\_V2\_NoIPsec*** Exclude the IPsec settings file.

***Restore\_V2\_NoStaticRouteMB*** Exclude static routes for mainboard settings file.

***Restore\_V2\_NoDcCfgMgr*** Exclude DcCfgMgr settings.

***Restore\_V2\_NoIgmpV2GbE*** Exclude IgmpV2GbE settings (igmp)

***Restore\_V2\_NoBasicNetwork*** Exclude Basic network settings (basic)

***Restore\_V2\_NoPsbSec*** Exclude settings regarding product security.

*Restore\_V2\_Reserved\_20*  
*Restore\_V2\_Reserved\_19*  
*Restore\_V2\_Reserved\_18*  
*Restore\_V2\_Reserved\_17*  
*Restore\_V2\_Reserved\_16*  
*Restore\_V2\_Reserved\_15*  
*Restore\_V2\_Reserved\_14*  
*Restore\_V2\_Reserved\_13*  
*Restore\_V2\_Reserved\_12*  
*Restore\_V2\_Reserved\_11*  
*Restore\_V2\_Reserved\_10*  
*Restore\_V2\_Reserved\_9*  
*Restore\_V2\_Reserved\_8*  
*Restore\_V2\_Reserved\_7*  
*Restore\_V2\_Reserved\_6*  
*Restore\_V2\_Reserved\_5*  
*Restore\_V2\_Reserved\_4*  
*Restore\_V2\_Reserved\_3*  
*Restore\_V2\_Reserved\_2*  
*Restore\_V2\_Reserved\_1*

Definition at line 21652 of file DCM.idl.

#### 8.54.2.8 enum DCM::DeviceControl::eRestoreSettingsResult

Result of the settings restore call.

Enumerator:

*Restore\_Done* The settings restore has finished.  
*Restore\_Reboot* The settings restore will reboot to finish.  
*Restore\_Busy* The async call is still being processed.  
*Restore\_Error* The async call is done with errors.  
*Restore\_Result\_Reserved1*  
*Restore\_Result\_Reserved2*  
*Restore\_Result\_Reserved3*  
*Restore\_Result\_Reserved4*

Definition at line 21584 of file DCM.idl.



## 8.54.3 Function Documentation

**8.54.3.1** void DCM::DeviceControl::BackupSettings ( out ByteStream *settings* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieve settings from the device.

## Parameters

|     |                 |                           |
|-----|-----------------|---------------------------|
| out | <i>settings</i> | Settings in binary format |
|-----|-----------------|---------------------------|

## Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal errors.                           |
| <i>OpNotAllowed</i>   | Not logged on.                             |
| <i>OpNotSupported</i> | /                                          |

**8.54.3.2** void DCM::DeviceControl::BackupSettings2 ( in unsigned short *scope*, out ByteStream *settings* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieve settings from the device.

## Parameters

|     |                 |                                                                        |
|-----|-----------------|------------------------------------------------------------------------|
| in  | <i>scope</i>    | Scope of the operation: 0-n are normal boards, 0xFFFF is whole chassis |
| out | <i>settings</i> | Settings in binary format                                              |

## Exceptions

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                             |
| <i>OpNotSucceeded</i> | Internal errors or the specified card is not an active IP Adapter card |
| <i>OpNotAllowed</i>   | Not logged on.                                                         |
| <i>OpNotSupported</i> | /                                                                      |

**8.54.3.3** void DCM::DeviceControl::DeviceBU\_ActivateDevice ( ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Instructs this device to gracefully become the active device.

If the device is a main device then this call will result in a manual restore operation. If the device is a backup device then this call will result in a manual backup operation.

## Exceptions

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                       |
| <i>OpNotAllowed</i>   | Not logged on.                                                   |
| <i>OpNotSupported</i> | When this call is not supported in the running software version. |
| <i>OpNotSucceeded</i> | On internal error only                                           |

**8.54.3.4** void DCM::DeviceControl::GetActiveCardNotOperTriggers ( in unsigned short *Board*, out MM\_IDList *ActiveAlarms* ) raises (Timeout, OpNotAllowed, OpNotSupported)

Get list measurement references of all active alarms configured as trigger for backup.

#### Parameters

|     |                     |                                                              |
|-----|---------------------|--------------------------------------------------------------|
| in  | <i>Board</i>        | Specifies BoardNr.                                           |
| out | <i>ActiveAlarms</i> | References of alarms that are triggering CardNotOperational. |

#### Exceptions

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>        | Never thrown.                                                                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• A timeout occurred during IIOP processing.</li> <li>• Invalid parameters.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                           |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                    |

**8.54.3.5** void DCM::DeviceControl::GetCardNotOperationalTriggers ( in unsigned short *Board*, out AlarmTriggerRuleList *Rules* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get list alarm trigger rules for CardNotOperational.

#### Parameters

|     |              |                                                 |
|-----|--------------|-------------------------------------------------|
| in  | <i>Board</i> | Specifies BoardNr.                              |
| out | <i>Rules</i> | rules defining triggers for CardNotOperational. |

#### Exceptions

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>        | Never thrown.                                                                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• A timeout occurred during IIOP processing.</li> <li>• Invalid parameters.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                           |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                    |

**8.54.3.6** void DCM::DeviceControl::GetDeviceActiveMode ( out eDeviceActiveMode *DeviceActiveMode* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Query the device mode.

#### Parameters

|     |                          |  |
|-----|--------------------------|--|
| out | <i>DeviceActive-Mode</i> |  |
|-----|--------------------------|--|

**Exceptions**

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                           |
| <i>OpNotSucceeded</i> | On internal error only.                                                                              |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                       |
| <i>OpNotSupported</i> | When called for a non-GbE board, or when this call is not supported in the running software version. |

**8.54.3.7 void DCM::DeviceControl::GetDeviceBackupTriggers ( out MM\_IDList *Triggers* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Gets the list of triggers that define when a backup is needed.

When one of the Alarm-triggers is open then the "Device Operational Failure" alarm is open, which triggers the 1:1 device backup.

**Parameters**

|     |                 |                                                                                                                                                |
|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| out | <i>Triggers</i> | References of alarms that trigger the backup. Currently, only alarms on mainboard can be used as triggers. This can be expanded in the future. |
|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------|

**Exceptions**

|                       |                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                                           |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>A timeout occurred during IIOP processing.</li> </ul>                                                 |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                          |
| <i>OpNotSupported</i> | in case of <ul style="list-style-type: none"> <li>not supported in the running software version.</li> <li>on any board except the mainboard.</li> </ul> |

**8.54.3.8 void DCM::DeviceControl::GetDeviceBU\_Params ( out DeviceBackupParams\_t *DeviceBackupParams* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Gets the parameters used by Device Backup.

**Parameters**

|     |                            |  |
|-----|----------------------------|--|
| out | <i>DeviceBackup-Params</i> |  |
|-----|----------------------------|--|

**Exceptions**

|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                             |
| <i>OpNotAllowed</i>   | Not logged on.                                                                         |
| <i>OpNotSupported</i> | When this call is not supported in the running software version.                       |
| <i>OpNotSucceeded</i> | On internal error or whether the settings cannot be expressed due to version mismatch. |

**8.54.3.9** void DCM::DeviceControl::GetDeviceBU\_ParamsV2 ( out DeviceBackupParamsV2\_t *DeviceBackupParams* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the parameters used by Device Backup.

#### Parameters

|     |                            |  |
|-----|----------------------------|--|
| out | <i>DeviceBackup-Params</i> |  |
|-----|----------------------------|--|

#### Exceptions

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| <i>Timeout</i>        | A timeout occurred during IIOP processing.                       |
| <i>OpNotAllowed</i>   | Not logged on.                                                   |
| <i>OpNotSupported</i> | When this call is not supported in the running software version. |
| <i>OpNotSucceeded</i> | On internal error only                                           |

**8.54.3.10** void DCM::DeviceControl::GetIP\_AliasList ( in IPS\_Ref\_t *RefPhys*, out IP\_List\_t *IP\_Addresses* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of IP aliases associated with a specific network interface.

#### Parameters

|    |                     |                                                                                                                                                                                                             |
|----|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>      | BoardNr and PortNr of the network interface. Board numbers 1..n refer to the I/O boards. Specify BoardNr = 0 and PortNr = 0 for the 10/100 network interface, and PortNr = 1 for the GbE network interface. |
| in | <i>IP_Addresses</i> | List of IP secondary IP addresses.                                                                                                                                                                          |

#### Exceptions

|                       |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| <i>Timeout</i>        | A timeout occurred during IIOP processing.                                                        |
| <i>OpNotSucceeded</i> | When RefPhys is invalid.                                                                          |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                    |
| <i>OpNotSupported</i> | When called for an ASI board, or when this call is not supported in the running software version. |

**8.54.3.11** void DCM::DeviceControl::GetIP\_AliasMode ( in IPS\_Ref\_t *RefPhys*, out eActivationMode *ActivationMode* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get activation mode for the list of IP aliases associated with a specific network interface.

#### Parameters

|    |                        |                                                                                                                                                                                                             |
|----|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>         | BoardNr and PortNr of the network interface. Board numbers 1..n refer to the I/O boards. Specify BoardNr = 0 and PortNr = 0 for the 10/100 network interface, and PortNr = 1 for the GbE network interface. |
| in | <i>Activation-Mode</i> | Activation mode for the IP aliases.                                                                                                                                                                         |

**Exceptions**

|                       |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                        |
| <i>OpNotSucceeded</i> | When RefPhys is invalid.                                                                          |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                    |
| <i>OpNotSupported</i> | When called for an ASI board, or when this call is not supported in the running software version. |

**8.54.3.12** void DCM::DeviceControl::GetPeerDeviceActiveMode ( out eDeviceActiveMode DeviceActiveMode ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the peer device mode.

**Parameters**

|     |                          |  |
|-----|--------------------------|--|
| out | <i>DeviceActive-Mode</i> |  |
|-----|--------------------------|--|

**Exceptions**

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                           |
| <i>OpNotSucceeded</i> | On internal error only.                                                                              |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                       |
| <i>OpNotSupported</i> | When called for a non-GbE board, or when this call is not supported in the running software version. |

**Version**

Release4.0

**8.54.3.13** void DCM::DeviceControl::GetPowerupDeviceActiveMode ( out eDeviceActiveMode DeviceActiveMode ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the power-up device mode.

**Parameters**

|     |                          |  |
|-----|--------------------------|--|
| out | <i>DeviceActive-Mode</i> |  |
|-----|--------------------------|--|

**Exceptions**

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                           |
| <i>OpNotSucceeded</i> | On internal error only.                                                                              |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                       |
| <i>OpNotSupported</i> | When called for a non-GbE board, or when this call is not supported in the running software version. |

**Version**

Release4.0

**8.54.3.14** void DCM::DeviceControl::GetSettingsRestoreOptions ( out RestoreOptions *options* )  
raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the restore options.

This call also returns disabled options.

#### Parameters

|     |                |                 |
|-----|----------------|-----------------|
| out | <i>options</i> | Restore options |
|-----|----------------|-----------------|

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | /                                          |
| <i>OpNotAllowed</i>   | Not logged on.                             |
| <i>OpNotSupported</i> | /                                          |

**Deprecated** Use GetSettingsRestoreOptions\_V2 instead

**8.54.3.15** void DCM::DeviceControl::GetSettingsRestoreOptions\_V2 ( out RestoreOptions\_V2 *options* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the restore options.

This call also returns disabled options.

#### Parameters

|     |                |                 |
|-----|----------------|-----------------|
| out | <i>options</i> | Restore options |
|-----|----------------|-----------------|

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | /                                          |
| <i>OpNotAllowed</i>   | Not logged on.                             |
| <i>OpNotSupported</i> | /                                          |

#### Version

8.1

**8.54.3.16** void DCM::DeviceControl::PollRestoreSettingsResult ( out eRestoreSettingsResult *Result* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Check if the asynchronously launched RestoreSettingsAsync call has finished its job (poll for its status).

#### Parameters

|     |               |                                                                                                                          |
|-----|---------------|--------------------------------------------------------------------------------------------------------------------------|
| out | <i>Result</i> | The eRestoreSettingsResult. After a reboot the state will be Done, otherwise it depends of the outcome on previous call. |
|-----|---------------|--------------------------------------------------------------------------------------------------------------------------|

**Exceptions**

|                       |                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                               |
| <i>OpNotSucceeded</i> | Internal errors, file format bad or the specified card is not an active IP Adapter card. |
| <i>OpNotAllowed</i>   | Not logged on.                                                                           |
| <i>OpNotSupported</i> | /                                                                                        |

**Version**

Release 8.5

**8.54.3.17** void DCM::DeviceControl::RestoreSettings ( in ByteStream *settings* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Restore settings onto the device.

**Parameters**

|    |                 |                                                                                                                           |
|----|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| in | <i>settings</i> | Settings in binary format retrieved from a BackupSettings call or from a settings-export via the GUI in pre-5.0 versions. |
|----|-----------------|---------------------------------------------------------------------------------------------------------------------------|

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal errors, file format bad.          |
| <i>OpNotAllowed</i>   | Not logged on.                             |
| <i>OpNotSupported</i> | /                                          |

**8.54.3.18** void DCM::DeviceControl::RestoreSettings2 ( in unsigned short *scope*, in ByteStream *settings* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Restore settings onto the device.

The device will be rebooted a couple of seconds after this call returned.

**Parameters**

|    |                 |                                                                                                                           |
|----|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| in | <i>scope</i>    | Scope of the operation: 0-n are normal boards, 0xFFFF is whole chassis                                                    |
| in | <i>settings</i> | Settings in binary format retrieved from a BackupSettings call or from a settings-export via the GUI in pre-5.0 versions. |

**Exceptions**

|                       |                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                               |
| <i>OpNotSucceeded</i> | Internal errors, file format bad or the specified card is not an active IP Adapter card. |
| <i>OpNotAllowed</i>   | Not logged on.                                                                           |
| <i>OpNotSupported</i> | /                                                                                        |

**8.54.3.19** void DCM::DeviceControl::RestoreSettings3 ( in unsigned short *scope*, in ByteStream *settings*, in boolean *bReturnEarly*, out eRestoreSettingsResult *Result* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Restore settings onto the device and try to do this seamless.

This is different with RestoreSettings2 which will enforce a reboot. As the seamless apply of settings can take some time, this call will take longer than RestoreSettings2, but it avoids reboots if not necessary.

#### Parameters

|     |                     |                                                                                                                                                                                                                                                                             |
|-----|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in  | <i>scope</i>        | Scope of the operation: 0-n are normal boards, 0xFFFF is whole chassis                                                                                                                                                                                                      |
| in  | <i>settings</i>     | Settings in binary format retrieved from a BackupSettings call or from a settings-export via the GUI in pre-5.0 versions.                                                                                                                                                   |
| in  | <i>bReturnEarly</i> | when set to true, the call will return after it is determined whether a reboot is needed. On <a href="#">DCM</a> this parameter will have no effect. On D9036 the call will return before importing VSE settings, use the PollRestoreSettings-Result to monitor the result. |
| out | <i>Result</i>       | Returns the result of the restore process.                                                                                                                                                                                                                                  |

#### Exceptions

|                       |                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                               |
| <i>OpNotSucceeded</i> | Internal errors, file format bad or the specified card is not an active IP Adapter card. |
| <i>OpNotAllowed</i>   | Not logged on.                                                                           |
| <i>OpNotSupported</i> | /                                                                                        |

#### Version

Release 8.5

**8.54.3.20** void DCM::DeviceControl::SetCardNotOperationalTriggers ( in unsigned short *Board*, in AlarmTriggerRuleList *Rules* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set list alarm trigger rules for CardNotOperational.

#### Parameters

|    |              |                                                 |
|----|--------------|-------------------------------------------------|
| in | <i>Board</i> | Specifies BoardNr.                              |
| in | <i>Rules</i> | rules defining triggers for CardNotOperational. |

#### Exceptions

|                       |                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                        |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>A timeout occurred during IIOP processing.</li> <li>Invalid parameters.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                       |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                |



**8.54.3.21** void DCM::DeviceControl::SetDeviceActiveMode ( in eDeviceActiveMode *DeviceActiveMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the device mode.

#### Parameters

|    |                          |  |
|----|--------------------------|--|
| in | <i>DeviceActive-Mode</i> |  |
|----|--------------------------|--|

#### Exceptions

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                           |
| <i>OpNotSucceeded</i> | When called with an invalid mode.                                                                    |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                       |
| <i>OpNotSupported</i> | When called for a non-GbE board, or when this call is not supported in the running software version. |

#### Note

The device mode is a volatile setting: it is retained as long as the software keeps running, but is reset to PowerupDeviceActiveMode after a power failure or warm reboot.

**8.54.3.22** void DCM::DeviceControl::SetDeviceBackupTriggers ( in MM\_IDList *Triggers* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the list of triggers that define when a backup is needed.

When one of the Alarm-triggers is open then the "Device Operational Failure" alarm is open, which triggers the 1:1 device backup.

#### Parameters

|    |                 |                                                                                                                                                |
|----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>Triggers</i> | References of alarms that trigger the backup. Currently, only alarms on mainboard can be used as triggers. This can be expanded in the future. |
|----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------|

#### Exceptions

|                       |                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                                                                                             |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>A timeout occurred during IIOP processing.</li> <li>An unknown alarm is passed. The previous alarms in the passed list are the new triggers.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                            |
| <i>OpNotSupported</i> | in case of <ul style="list-style-type: none"> <li>not supported in the running software version.</li> <li>on any board except the mainboard.</li> </ul>                                                   |

**8.54.3.23** void DCM::DeviceControl::SetDeviceBU\_Params ( in DeviceBackupParams\_t  
DeviceBackupParams ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the parameters to be used by Device Backup.

#### Parameters

|    |                     |  |
|----|---------------------|--|
| in | DeviceBackup-Params |  |
|----|---------------------|--|

#### Exceptions

|                |                                                                                                                                                                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TimeOut        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                 |
| OpNotAllowed   | Not logged on.                                                                                                                                                                                                                                             |
| OpNotSupported | When this call is not supported in the running software version.                                                                                                                                                                                           |
| OpNotSucceeded | When any of the following occurs: <ul style="list-style-type: none"> <li>• Peer IP Address is invalid</li> <li>• UDP Port used by another application</li> <li>• Network interface is invalid</li> <li>• Delay values are outside allowed range</li> </ul> |

**8.54.3.24** void DCM::DeviceControl::SetDeviceBU\_ParamsV2 ( in DeviceBackupParamsV2\_t  
DeviceBackupParams ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the parameters to be used by Device Backup.

#### Parameters

|    |                     |  |
|----|---------------------|--|
| in | DeviceBackup-Params |  |
|----|---------------------|--|

#### Exceptions

|                |                                                                                                                                                                                                                                                                                                                                                 |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TimeOut        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                                                                      |
| OpNotAllowed   | Not logged on.                                                                                                                                                                                                                                                                                                                                  |
| OpNotSupported | When this call is not supported in the running software version.                                                                                                                                                                                                                                                                                |
| OpNotSucceeded | When any of the following occurs: <ul style="list-style-type: none"> <li>• Peer IP Address is invalid</li> <li>• Insufficient or duplicate links</li> <li>• UDP Port used by another application</li> <li>• Network interface is invalid</li> <li>• Delay values are outside allowed range</li> <li>• Invalid role or revertive mode</li> </ul> |

**8.54.3.25** void DCM::DeviceControl::SetIP\_AliasList ( in IPS\_Ref\_t RefPhys, in IP\_List\_t  
IP\_Addresses ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the list of IP aliases associated with a specific network interface.

## Parameters

|    |                     |                                                                                                                                                                                                             |
|----|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>      | BoardNr and PortNr of the network interface. Board numbers 1..n refer to the I/O boards. Specify BoardNr = 0 and PortNr = 0 for the 10/100 network interface, and PortNr = 1 for the GbE network interface. |
| in | <i>IP_Addresses</i> | List of IP secondary IP addresses.                                                                                                                                                                          |

## Exceptions

|                       |                                                                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                        |
| <i>OpNotSucceeded</i> | When called with an invalid ActivationMode, when one of the specified aliases is outside the subnet associated with the specified network interface, when one of the specified aliases conflicts with the IP address assigned to another GbE network interface, static route or static ARP entry. |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                                                                                                                    |
| <i>OpNotSupported</i> | When called for an ASI board, or when this call is not supported in the running software version.                                                                                                                                                                                                 |

**8.54.3.26** void DCM::DeviceControl::SetIP\_AliasMode ( in IPS\_Ref\_t *RefPhys*, in eActivationMode *ActivationMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set activation mode for the list of IP aliases associated with a specific network interface.

## Parameters

|    |                        |                                                                                                                                                                                                                                                                                                                                                                              |
|----|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>         | BoardNr and PortNr of the network interface. Board numbers 1..n refer to the I/O boards. Specify BoardNr = 0 and PortNr = 0 for the 10/100 network interface, and PortNr = 1 for the GbE network interface. If BoardNr = 0xffff, PortNr is ignored and the setting is applied to all boards. If PortNr = 0xffff, the setting is applied to all ports of the specified board. |
| in | <i>Activation-Mode</i> | Activation mode for the IP aliases.                                                                                                                                                                                                                                                                                                                                          |

## Exceptions

|                       |                                                                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                                                                                                                                                                                                                        |
| <i>OpNotSucceeded</i> | When called with an invalid ActivationMode, when one of the specified aliases is outside the subnet associated with the specified network interface, when one of the specified aliases conflicts with the IP address assigned to another GbE network interface, static route or static ARP entry. |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                                                                                                                                                                    |
| <i>OpNotSupported</i> | When called for an ASI board, or when this call is not supported in the running software version.                                                                                                                                                                                                 |

**8.54.3.27** void DCM::DeviceControl::SetPowerupDeviceActiveMode ( in eDeviceActiveMode *DeviceActiveMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the power-up device mode.

## Parameters

|    |                          |  |
|----|--------------------------|--|
| in | <i>DeviceActive-Mode</i> |  |
|----|--------------------------|--|

**Exceptions**

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                           |
| <i>OpNotSucceeded</i> | When called with an invalid mode.                                                                    |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                       |
| <i>OpNotSupported</i> | When called for a non-GbE board, or when this call is not supported in the running software version. |

**Note**

The power-up device mode is a non-volatile setting, which is restored to the last set value after power failure or warm reboot.

**8.54.3.28** void DCM::DeviceControl::SetSettingsRestoreOptions ( in RestoreOptions *options* )  
raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set restore options.

The options are merged into the current set of options. Unknown settings are ignored. For duplicate options only the last one is kept.

**Parameters**

|    |                |                 |
|----|----------------|-----------------|
| in | <i>options</i> | Restore options |
|----|----------------|-----------------|

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | /                                          |
| <i>OpNotAllowed</i>   | Not logged on.                             |
| <i>OpNotSupported</i> | /                                          |

**Deprecated** Use SetSettingsRestoreOptions\_V2

**8.54.3.29** void DCM::DeviceControl::SetSettingsRestoreOptions\_V2 ( in RestoreOptions\_V2 *options* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set restore options.

The options are merged into the current set of options. Unknown settings are ignored. For duplicate options only the last one is kept.

**Parameters**

|    |                |                 |
|----|----------------|-----------------|
| in | <i>options</i> | Restore options |
|----|----------------|-----------------|

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | /                                          |
| <i>OpNotAllowed</i>   | Not logged on.                             |
| <i>OpNotSupported</i> | /                                          |

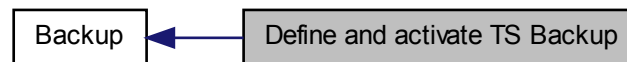
**Version**

8.1

## 8.55 Define and activate TS Backup

end of one\_to\_one\_backup

Collaboration diagram for Define and activate TS Backup:



### Classes

- struct [DCM::DeviceControl::TS\\_BackupParams\\_t](#)

### Functions

- void [DCM::DeviceControl::SetTS\\_BU\\_Params](#) (in [IPS\\_RefTS\\_t](#) InTS, in [TS\\_BackupParams\\_t](#) TS\_BackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the Backup parameters for an Input TS.*
- void [DCM::DeviceControl::GetTS\\_BU\\_Params](#) (in [IPS\\_RefTS\\_t](#) InTS, out [TS\\_BackupParams\\_t](#) T-S\_BackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the Backup parameters for an Input TS.*
- void [DCM::DeviceControl::SetActiveInputTS](#) (in [IPS\\_RefTS\\_t](#) InTS, in [IPS\\_RefTS\\_t](#) ActiveInTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Let the user manually set the active InputTS.*
- void [DCM::DeviceControl::GetActiveInputTS](#) (in [IPS\\_RefTS\\_t](#) InTS, out [IPS\\_RefTS\\_t](#) ActiveInTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the active InputTS.*
- void [DCM::DeviceControl::SetTS\\_BU\\_SwitchToGoodSrcOnly](#) (in unsigned short Board, in boolean Enabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets for TS backup that the switch to the backup TS will only happen if this TS is not in alarm.*
- void [DCM::DeviceControl::GetTS\\_BU\\_SwitchToGoodSrcOnly](#) (in unsigned short Board, out boolean Enabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets for TS backup if the switch to the backup TS will only happen if this TS is not in alarm.*

### 8.55.1 Detailed Description

end of one\_to\_one\_backup

### 8.55.2 Function Documentation

**8.55.2.1** void DCM::DeviceControl::GetActiveInputTS ( in IPS\_RefTS\_t *InTS*, out IPS\_RefTS\_t *ActiveInTS* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the active InputTS.

#### Parameters

|    |                   |                              |
|----|-------------------|------------------------------|
| in | <i>InTS</i>       | The main Input TS.           |
| in | <i>ActiveInTS</i> | The Input TS that is active. |

#### Exceptions

|                       |                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | <ul style="list-style-type: none"> <li>not supported in the running software version.</li> <li>when the mainboard is supplied.</li> </ul> |
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>When a non-existing TsIn is provided.</li> <li>When a TsOut is provided iso a TsIn.</li> </ul>     |

**8.55.2.2** void DCM::DeviceControl::GetTS\_BU\_Params ( in IPS\_RefTS\_t *InTS*, out TS\_BackupParams\_t *TS\_BackupParams* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the Backup parameters for an Input TS.

#### Parameters

|     |                         |                         |
|-----|-------------------------|-------------------------|
| in  | <i>InTS</i>             | Specifies the Input TS. |
| out | <i>TS_Backup-Params</i> | The current parameters. |

#### Exceptions

|                       |                                                                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | in case of <ul style="list-style-type: none"> <li>not supported in the running software version.</li> <li>when the mainboard is supplied.</li> </ul> |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>When a non-existing TsIn is provided.</li> <li>When a TsOut is provided iso a TsIn.</li> </ul>     |

**8.55.2.3** void DCM::DeviceControl::GetTS\_BU\_SwitchToGoodSrcOnly ( in unsigned short *Board*, out boolean *Enabled* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets for TS backup if the switch to the backup TS will only happen if this TS is not in alarm.

**Parameters**

|     |                |                                                                                  |
|-----|----------------|----------------------------------------------------------------------------------|
| in  | <i>Board</i>   |                                                                                  |
| out | <i>Enabled</i> | TRUE if the switch to the backup TS will only happen if this TS is not in alarm. |

**Exceptions**

|                       |                              |
|-----------------------|------------------------------|
| <i>OpNotSupported</i> | when Board = 0 = Main board. |
| <i>OpNotSucceeded</i> | if Board is invalid          |

**8.55.2.4 void DCM::DeviceControl::SetActiveInputTS ( in IPS\_RefTS\_t *InTS*, in IPS\_RefTS\_t *ActiveInTS* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Let the user manually set the active InputTS.

**Parameters**

|    |                   |                                     |
|----|-------------------|-------------------------------------|
| in | <i>InTS</i>       | The main Input TS.                  |
| in | <i>ActiveInTS</i> | The Input TS that should be active. |

**Exceptions**

|                       |                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | <ul style="list-style-type: none"> <li>not supported in the running software version.</li> <li>when the mainboard is supplied.</li> </ul>                                                               |
| <i>OpNotSucceeded</i> | <ul style="list-style-type: none"> <li>When a non-existing TsIn is provided.</li> <li>When a TsOut is provided iso a TsIn.</li> <li>When the ActiveInTS is currently not in the backup list.</li> </ul> |

**8.55.2.5 void DCM::DeviceControl::SetTS\_BU\_Params ( in IPS\_RefTS\_t *InTS*, in TS\_BackupParams\_t *TS\_BackupParams* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Set the Backup parameters for an Input TS.

**Parameters**

|    |                         |                          |
|----|-------------------------|--------------------------|
| in | <i>InTS</i>             | Specifies the Input TS.  |
| in | <i>TS_Backup-Params</i> | The parameters to apply. |

**Exceptions**

|                       |                                                                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | in case of <ul style="list-style-type: none"> <li>not supported in the running software version.</li> <li>when the mainboard is supplied.</li> </ul> |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|



|                       |                                                                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• When a non-existing TsIn is provided.</li> <li>• When a TsOut is provided instead of a TsIn.</li> <li>• There is more than one backup source specified.</li> <li>• The Backup source is the same as the target TsIn.</li> </ul> |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**8.55.2.6** void DCM::DeviceControl::SetTS\_BU\_SwitchToGoodSrcOnly ( in unsigned short *Board*, in boolean *Enabled* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets for TS backup that the switch to the backup TS will only happen if this TS is not in alarm.

#### Parameters

|    |                |                                                                                  |
|----|----------------|----------------------------------------------------------------------------------|
| in | <i>Board</i>   |                                                                                  |
| in | <i>Enabled</i> | TRUE if the switch to the backup TS will only happen if this TS is not in alarm. |

#### Exceptions

|                       |                              |
|-----------------------|------------------------------|
| <i>OpNotSupported</i> | when Board = 0 = Main board. |
| <i>OpNotSucceeded</i> | if Board is invalid          |

## 8.56 MIP Synchronization feature

Collaboration diagram for MIP Synchronization feature:



### Classes

- struct [DCM::DeviceControl::MIP\\_SyncTargetSettings\\_t](#)

### Enumerations

- enum [DCM::DeviceControl::enMIP\\_Sync\\_DeviceRole](#) { [DCM::DeviceControl::eMIP\\_SyncNone](#), - [DCM::DeviceControl::eMIP\\_SyncInitiator](#), [DCM::DeviceControl::eMIP\\_SyncTarget](#) }

### Functions

- void [DCM::DeviceControl::GetMIP\\_SyncDeviceRole](#) (out [enMIP\\_Sync\\_DeviceRole](#) [MIP\\_Sync\\_DeviceRole](#)) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the MIP Synchronization role of a device.*
- void [DCM::DeviceControl::SetMIP\\_SyncDeviceRole](#) (in [enMIP\\_Sync\\_DeviceRole](#) [MIP\\_Sync\\_DeviceRole](#)) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the MIP Synchronization role of a device.*
- void [DCM::DeviceControl::GetMIP\\_SyncTargetSettings](#) (out [MIP\\_SyncTargetSettings\\_t](#) [TargetSettings](#)) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the settings of the MIP Synchronization Target.*
- void [DCM::DeviceControl::SetMIP\\_SyncTargetSettings](#) (in [MIP\\_SyncTargetSettings\\_t](#) [TargetSettings](#)) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the settings of the MIP Synchronization Target.*
- void [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_GetMIP\\_SyncEnable](#) (in unsigned short [BoardNr](#), out boolean [MIP\\_SyncEnabled](#)) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the MIP Synchronization Enabled setting of an ASI SFN MKII Board.*
- void [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_SetMIP\\_SyncEnable](#) (in unsigned short [BoardNr](#), in boolean [MIP\\_SyncEnabled](#)) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the MIP Synchronization Enabled setting of an ASI SFN MKII Board.*

## 8.56.1 Enumeration Type Documentation

## 8.56.1.1 enum DCM::DeviceControl::enMIP\_Sync\_DeviceRole

Enumerator:

*eMIP\_SyncNone*  
*eMIP\_SyncInitiator*  
*eMIP\_SyncTarget*

Definition at line 21847 of file DCM.idl.

## 8.56.2 Function Documentation

8.56.2.1 void DCM::DeviceControl::ASI\_SF\_N\_MKII\_GetMIP\_SyncEnable ( in unsigned short *BoardNr*, out boolean *MIP\_SyncEnabled* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the MIP Synchronization Enabled setting of an ASI SFN MKII Board.

## Parameters

|     |                         |                                              |
|-----|-------------------------|----------------------------------------------|
| in  | <i>BoardNr</i>          |                                              |
| out | <i>MIP_Sync-Enabled</i> | Indicates whether MIP Sync is enabled or not |

## Exceptions

|                        |                                                                |
|------------------------|----------------------------------------------------------------|
| <i>TimeOut</i>         | A timeout occurred during IIOP processing.                     |
| <i>OpNotAllowed</i>    | Not logged on.                                                 |
| <i>OpNotSupported</i>  | When called for non-ASI-SFN-MKII boards.                       |
| <i>OpNotSucceeded</i>  | On internal error only.                                        |
| <i>OperationFailed</i> | When <a href="#">DCM</a> is not MIP Synchronization Initiator. |

## Version

Release 9.0

8.56.2.2 void DCM::DeviceControl::ASI\_SF\_N\_MKII\_SetMIP\_SyncEnable ( in unsigned short *BoardNr*, in boolean *MIP\_SyncEnable* ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the MIP Synchronization Enabled setting of an ASI SFN MKII Board.

## Parameters

|    |                        |                                                     |
|----|------------------------|-----------------------------------------------------|
| in | <i>BoardNr</i>         |                                                     |
| in | <i>MIP_Sync-Enable</i> | Indicates whether MIP Sync should be enabled or not |

**Exceptions**

|                        |                                                       |
|------------------------|-------------------------------------------------------|
| <i>TimeOut</i>         | A timeout occurred during IIOP processing.            |
| <i>OpNotAllowed</i>    | Not logged on.                                        |
| <i>OpNotSupported</i>  | When called for non-ASI-SFN-MKII boards.              |
| <i>OpNotSucceeded</i>  | On internal error only.                               |
| <i>OperationFailed</i> | When <b>DCM</b> is not MIP Synchronization Initiator. |

**Version**

Release 9.0

**8.56.2.3** void DCM::DeviceControl::GetMIP\_SyncDeviceRole ( out enMIP\_Sync\_DeviceRole MIP\_Sync\_DeviceRole ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the MIP Synchronization role of a device.

**Parameters**

|     |                            |                                                     |
|-----|----------------------------|-----------------------------------------------------|
| out | <i>MIP_Sync_DeviceRole</i> | indicates device role regarding MIP Synchronization |
|-----|----------------------------|-----------------------------------------------------|

**Exceptions**

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                       |
| <i>OpNotAllowed</i>   | Not logged on.                                                   |
| <i>OpNotSupported</i> | When this call is not supported in the running software version. |
| <i>OpNotSucceeded</i> | On internal error only.                                          |

**Version**

Release 9.0

**8.56.2.4** void DCM::DeviceControl::GetMIP\_SyncTargetSettings ( out MIP\_SyncTargetSettings\_t TargetSettings ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the settings of the MIP Synchronization Target.

**Parameters**

|     |                       |                                            |
|-----|-----------------------|--------------------------------------------|
| out | <i>TargetSettings</i> | settings of the MIP Synchronization Target |
|-----|-----------------------|--------------------------------------------|

**Exceptions**

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| <i>TimeOut</i>         | A timeout occurred during IIOP processing.                       |
| <i>OpNotAllowed</i>    | Not logged on.                                                   |
| <i>OpNotSupported</i>  | When this call is not supported in the running software version. |
| <i>OpNotSucceeded</i>  | On internal error only.                                          |
| <i>OperationFailed</i> | When <b>DCM</b> is not MIP Synchronization Initiator.            |

**Version**

Release 9.0

**8.56.2.5** void DCM::DeviceControl::SetMIP\_SyncDeviceRole ( in enMIP\_Sync\_DeviceRole MIP\_Sync\_DeviceRole ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the MIP Synchronization role of a device.

**Parameters**

|    |                            |                                                     |
|----|----------------------------|-----------------------------------------------------|
| in | <i>MIP_Sync_DeviceRole</i> | indicates device role regarding MIP Synchronization |
|----|----------------------------|-----------------------------------------------------|

**Exceptions**

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| <i>TimeOut</i>         | A timeout occurred during IIOP processing.                       |
| <i>OpNotAllowed</i>    | Not logged on.                                                   |
| <i>OpNotSupported</i>  | When this call is not supported in the running software version. |
| <i>OpNotSucceeded</i>  | On internal error only.                                          |
| <i>OperationFailed</i> | When problems regarding settingsfile.                            |

**Version**

Release 9.0

**8.56.2.6** void DCM::DeviceControl::SetMIP\_SyncTargetSettings ( in MIP\_SyncTargetSettings\_t TargetSettings ) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the settings of the MIP Synchronization Target.

**Parameters**

|     |                       |                                         |
|-----|-----------------------|-----------------------------------------|
| out | <i>TargetSettings</i> | settings of the Target MIP Synchronizer |
|-----|-----------------------|-----------------------------------------|

**Exceptions**

|                        |                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>         | A timeout occurred during IIOP processing.                                                             |
| <i>OpNotAllowed</i>    | Not logged on.                                                                                         |
| <i>OpNotSupported</i>  | When this call is not supported in the running software version.                                       |
| <i>OpNotSucceeded</i>  | On internal error only.                                                                                |
| <i>OperationFailed</i> | When <a href="#">DCM</a> is not MIP Synchronization Initiator or when problems regarding settingsfile. |

**Version**

Release 9.0

## 8.57 DTF

Types and methods to control DTF.

### Classes

- struct [DCM::DeviceControl::ASI\\_DTF\\_t](#)  
*Structure holding DTF input settings.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_Ex\\_t](#)  
*Structure holding DTF input settings. The difference with the [ASI\\_DTF\\_t](#) structure is that this structure here doesn't hold the scrambling key directly. Instead, it holds a reference to a key in the list that can be set up using the [ASI\\_DTF\\_SetKeyList](#) method. Also the scrambling type can be selected to be odd or even.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_RDCS\\_t](#)  
*Structure holding DTF RDCS input settings. From V9.0 onwards.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_t](#)  
*Structure holding DTF output settings.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_Ex\\_t](#)  
*Structure holding DTF output settings. The difference with the [ASI\\_DTF\\_OutputTS\\_t](#) is that this structure here provides for scrambling type, scrambling key indices and the possibility to overrule the input-level settings by one global setting.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_RDCS\\_t](#)  
*Structure holding DTF RDCS output settings. From V9.0 onwards.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_ScramblingKeyPair\\_t](#)  
*Structure holding DTF scrambling keys.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_ScramblingKey\\_t](#)

### Typedefs

- typedef sequence< [ASI\\_DTF\\_t](#) > [DCM::DeviceControl::ASI\\_DTF\\_List\\_t](#)  
*Provides a list of DTF input settings structures.*
- typedef sequence< [ASI\\_DTF\\_Ex\\_t](#) > [DCM::DeviceControl::ASI\\_DTF\\_ListEx\\_t](#)  
*Provides a list of DTF input settings structures.*
- typedef sequence< [ASI\\_DTF\\_RDCS\\_t](#) > [DCM::DeviceControl::ASI\\_DTF\\_RDCS\\_List\\_t](#)  
*Provides a list of DTF RDCS input settings structures. From V9.0 onwards.*
- typedef sequence< [ASI\\_DTF\\_ScramblingKeyPair\\_t](#) > [DCM::DeviceControl::ASI\\_DTF\\_ScramblingKeyList](#)  
*Type to hold a list of scrambling key pairs, should hold exactly 64 key pairs.*
- typedef sequence< [ASI\\_DTF\\_ScramblingKey\\_t](#) > [DCM::DeviceControl::ASI\\_DTF\\_KeyList\\_t](#)

### Enumerations

- enum [DCM::DeviceControl::eASI\\_BoardType](#) { [DCM::DeviceControl::ASI\\_BoardRegular](#), [DCM::DeviceControl::ASI\\_BoardDTF](#) }  
*Defines the ASI board's sub type.*
- enum [DCM::DeviceControl::eASI\\_DTF\\_ScramblingType](#) { [DCM::DeviceControl::DTF\\_OddScrambling](#), [DCM::DeviceControl::DTF\\_EvenScrambling](#) }  
*Defines the scrambling type.*

## Functions

- void [DCM::DeviceControl::SetASIBoardType](#) (in IPS\_Ref\_t RefPhys, in eASI\_BoardType ASIBoardType) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Configures the ASI board in either regular or DTF mode.*
- void [DCM::DeviceControl::GetASIBoardType](#) (in IPS\_Ref\_t RefPhys, out eASI\_BoardType ASIBoardType) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Reads the current ASI board sub-type.*
- ASI\_DTF\_OutputTS\_t [DCM::DeviceControl::ASI\\_DTF\\_OutTS\\_Get](#) (in IPS\_Ref\_t RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the current DTF settings.*
- ASI\_DTF\_OutputTS\_Ex\_t [DCM::DeviceControl::ASI\\_DTF\\_OutTS\\_GetEx](#) (in IPS\_Ref\_t RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the current DTF settings.*
- ASI\_DTF\_OutputTS\_RDCS\_t [DCM::DeviceControl::ASI\\_DTF\\_OutTS\\_RDCS\\_Get](#) (in IPS\_Ref\_t RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the DTF RDCS settings.*
- void [DCM::DeviceControl::ASI\\_DTF\\_Change](#) (in IPS\_Ref\_t RefPhys, in ASI\_DTF\_OutputTS\_t - OutputTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the DTF settings.*
- void [DCM::DeviceControl::ASI\\_DTF\\_ChangeEx](#) (in IPS\_Ref\_t RefPhys, in ASI\_DTF\_OutputTS\_Ex\_t OutputTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the DTF settings.*
- void [DCM::DeviceControl::ASI\\_DTF\\_RDCS\\_Change](#) (in IPS\_Ref\_t RefPhys, in ASI\_DTF\_OutputTS\_RDCS\_t OutputTS) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Sets DTF RDCS settings.*
- unsigned long [DCM::DeviceControl::ASI\\_DTF\\_OutTS\\_GetStuffingBitRate](#) (in IPS\_Ref\_t RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the bit rate of the stuffing packets in the DTF output stream.*
- ASI\_DTF\_ScramblingKeyList [DCM::DeviceControl::ASI\\_DTF\\_GetKeyList](#) (in IPS\_Ref\_t RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the list of 64 scrambling key pairs.*
- void [DCM::DeviceControl::ASI\\_DTF\\_SetKeyList](#) (in IPS\_Ref\_t RefPhys, in ASI\_DTF\_ScramblingKeyList KeyList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets up the list with 64 scrambling key pairs.*
- void [DCM::DeviceControl::ASI\\_DTF\\_SetKeyList\\_V2](#) (in unsigned short BoardNumber, in ASI\_DTF\_KeyList\_t KeyList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Replace DTF BISS scrambling keys.*
- void [DCM::DeviceControl::ASI\\_DTF\\_ClearCredentials](#) (in unsigned short BoardNumber) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Clear all DTF related credentials.*
- void [DCM::DeviceControl::ASI\\_DTF\\_SetSWDK](#) (in unsigned short BoardNumber, in string SWDK) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Enter a SWDF decryption key.*

### 8.57.1 Detailed Description

Types and methods to control DTF.

### 8.57.2 Typedef Documentation

#### 8.57.2.1 typedef sequence< ASI\_DTF\_ScramblingKey\_t> DCM::DeviceControl::ASI\_DTF\_KeyList\_t

Definition at line 22084 of file DCM.idl.

#### 8.57.2.2 typedef sequence<ASI\_DTF\_t> DCM::DeviceControl::ASI\_DTF\_List\_t

Provides a list of DTF input settings structures.

**Deprecated** Obsoleted by ASI\_DTF\_ListEx\_t from release 6.0

Definition at line 22022 of file DCM.idl.

#### 8.57.2.3 typedef sequence<ASI\_DTF\_Ex\_t> DCM::DeviceControl::ASI\_DTF\_ListEx\_t

Provides a list of DTF input settings structures.

Definition at line 22025 of file DCM.idl.

#### 8.57.2.4 typedef sequence<ASI\_DTF\_RDCS\_t> DCM::DeviceControl::ASI\_DTF\_RDCS\_List\_t

Provides a list of DTF RDCS input settings structures. From V9.0 onwards.

Definition at line 22028 of file DCM.idl.

#### 8.57.2.5 typedef sequence<ASI\_DTF\_ScramblingKeyPair\_t> DCM::DeviceControl::ASI\_DTF\_ScramblingKeyList

Type to hold a list of scrambling key pairs, should hold exactly 64 key pairs.

**Deprecated** Obsoleted in release 6.0

Definition at line 22073 of file DCM.idl.

### 8.57.3 Enumeration Type Documentation

#### 8.57.3.1 enum DCM::DeviceControl::eASI\_BoardType

Defines the ASI board's sub type.

Enumerator:

**ASI\_BoardRegular** Generic ASI mode.

**ASI\_BoardDTF** DTF mode.

Definition at line 21966 of file DCM.idl.

#### 8.57.3.2 enum DCM::DeviceControl::eASI\_DTF\_ScramblingType

Defines the scrambling type.

Enumerator:

**DTF\_OddScrambling** Odd scrambling.



***DTF\_EvenScrambling*** Even scrambling.

Definition at line 21973 of file DCM.idl.

#### 8.57.4 Function Documentation

**8.57.4.1** void DCM::DeviceControl::ASI\_DTF\_Change ( in IPS\_Ref\_t *RefPhys*, in ASI\_DTF\_OutputTS\_t *OutputTS* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the DTF settings.

##### Parameters

|    |                 |                                                                                           |
|----|-----------------|-------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>  | The board (and port) to apply the call on. Only port 10 (index 9) is currently supported. |
| in | <i>OutputTS</i> | The new DTF configuration                                                                 |

**Deprecated** Obsoleted in release 6.0

**8.57.4.2** void DCM::DeviceControl::ASI\_DTF\_ChangeEx ( in IPS\_Ref\_t *RefPhys*, in ASI\_DTF\_OutputTS\_Ex\_t *OutputTS* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the DTF settings.

##### Parameters

|    |                 |                                                                                           |
|----|-----------------|-------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>  | The board (and port) to apply the call on. Only port 10 (index 9) is currently supported. |
| in | <i>OutputTS</i> | The new DTF configuration                                                                 |

**8.57.4.3** void DCM::DeviceControl::ASI\_DTF\_ClearCredentials ( in unsigned short *BoardNumber* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Clear all DTF related credentials.

##### Parameters

|    |                    |                                                            |
|----|--------------------|------------------------------------------------------------|
| in | <i>BoardNumber</i> | The board to apply the call on. Only board 0 is supported. |
|----|--------------------|------------------------------------------------------------|

##### Version

8.5

**8.57.4.4** ASI\_DTF\_ScramblingKeyList DCM::DeviceControl::ASI\_DTF\_GetKeyList ( in IPS\_Ref\_t *RefPhys* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the list of 64 scrambling key pairs.

**Parameters**

|           |                |                                                                                           |
|-----------|----------------|-------------------------------------------------------------------------------------------|
| <i>in</i> | <i>RefPhys</i> | The board (and port) to apply the call on. Only port 10 (index 9) is currently supported. |
|-----------|----------------|-------------------------------------------------------------------------------------------|

**Returns**

A list holding the key pairs.

**Deprecated** Obsoleted in release 6.0

**8.57.4.5** `ASI_DTF_OutputTS_t DCM::DeviceControl::ASI_DTF_OutTS_Get ( in IPS_Ref_t RefPhys )`  
raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the current DTF settings.

**Parameters**

|           |                |                                                                                           |
|-----------|----------------|-------------------------------------------------------------------------------------------|
| <i>in</i> | <i>RefPhys</i> | The board (and port) to apply the call on. Only port 10 (index 9) is currently supported. |
|-----------|----------------|-------------------------------------------------------------------------------------------|

**Returns**

The current DTF configuration.

**Deprecated** Obsoleted in release 6.0

**8.57.4.6** `ASI_DTF_OutputTS_Ex_t DCM::DeviceControl::ASI_DTF_OutTS_GetEx ( in IPS_Ref_t RefPhys )`  
raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the current DTF settings.

**Parameters**

|           |                |                                                                                           |
|-----------|----------------|-------------------------------------------------------------------------------------------|
| <i>in</i> | <i>RefPhys</i> | The board (and port) to apply the call on. Only port 10 (index 9) is currently supported. |
|-----------|----------------|-------------------------------------------------------------------------------------------|

**Returns**

The current DTF configuration.

**8.57.4.7** `unsigned long DCM::DeviceControl::ASI_DTF_OutTS_GetStuffingBitRate ( in IPS_Ref_t RefPhys )`  
raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the bit rate of the stuffing packets in the DTF output stream.

**Parameters**

|           |                |                                                                                           |
|-----------|----------------|-------------------------------------------------------------------------------------------|
| <i>in</i> | <i>RefPhys</i> | The board (and port) to apply the call on. Only port 10 (index 9) is currently supported. |
|-----------|----------------|-------------------------------------------------------------------------------------------|

**Returns**

The bit rate of the stuffing packets

**8.57.4.8** `ASI_DTF_OutputTS_RDCS_t DCM::DeviceControl::ASI_DTF_OutTS_RDCS_Get ( in IPS_Ref_t RefPhys )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the DTF RDCS settings.

**Parameters**

|    |                |                                                                                           |
|----|----------------|-------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i> | The board (and port) to apply the call on. Only port 10 (index 9) is currently supported. |
|----|----------------|-------------------------------------------------------------------------------------------|

**Returns**

The DTF RDCS settings.

**Version**

Release 9.0

**8.57.4.9** `void DCM::DeviceControl::ASI_DTF_RDCS_Change ( in IPS_Ref_t RefPhys, in ASI_DTF_OutputTS_RDCS_t OutputTS )` raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Sets DTF RDCS settings.

**Parameters**

|    |                 |                                                                                           |
|----|-----------------|-------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>  | The board (and port) to apply the call on. Only port 10 (index 9) is currently supported. |
| in | <i>OutputTS</i> | The DTF RDCS settings of each input                                                       |

**Version**

Release 9.0

**8.57.4.10** `void DCM::DeviceControl::ASI_DTF_SetKeyList ( in IPS_Ref_t RefPhys, in ASI_DTF_ScramblingKeyList KeyList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets up the list with 64 scrambling key pairs.

**Parameters**

|    |                |                                                                                           |
|----|----------------|-------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i> | The board (and port) to apply the call on. Only port 10 (index 9) is currently supported. |
| in | <i>KeyList</i> | A list holding exactly 64 key pairs.                                                      |

**Deprecated** Obsoleted in release 6.0

**8.57.4.11** void DCM::DeviceControl::ASI\_DTF\_SetKeyList\_V2 ( in unsigned short *BoardNumber*, in ASI\_DTF\_KeyList\_t *KeyList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Replace DTF BISS scrambling keys.

If an index is used multiple times in the list of key pairs, only the last keypair will be applied. If a key is not valid, it will erase the key that is currently in use.

#### Parameters

|    |                    |                                                            |
|----|--------------------|------------------------------------------------------------|
| in | <i>BoardNumber</i> | The board to apply the call on. Only board 0 is supported. |
| in | <i>KeyList</i>     | List of keys to fill out.                                  |

#### Version

8.5

**8.57.4.12** void DCM::DeviceControl::ASI\_DTF\_SetSWDK ( in unsigned short *BoardNumber*, in string *SWDK* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Enter a SWDF decryption key.

#### Parameters

|    |                    |                                                             |
|----|--------------------|-------------------------------------------------------------|
| in | <i>BoardNumber</i> | The board to apply the call on. Only board 0 is supported.  |
| in | <i>SWDK</i>        | The hex encoded decryption key, exactly 48 characters long. |

#### Version

8.5

**8.57.4.13** void DCM::DeviceControl::GetASIBoardType ( in IPS\_Ref\_t *RefPhys*, out eASI\_BoardType *ASIBoardType* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Reads the current ASI board sub-type.

#### Parameters

|     |                     |                                                                                                                       |
|-----|---------------------|-----------------------------------------------------------------------------------------------------------------------|
| in  | <i>RefPhys</i>      | The board (and port) to apply the call on. Only port 10 (index 9) and wildcard port (0xFFFF) are currently supported. |
| out | <i>ASIBoardType</i> | The board's sub-type                                                                                                  |

**8.57.4.14** void DCM::DeviceControl::SetASIBoardType ( in IPS\_Ref\_t *RefPhys*, in eASI\_BoardType *ASIBoardType* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Configures the ASI board in either regular or DTF mode.

#### Parameters

|    |                |                                                                                                                       |
|----|----------------|-----------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i> | The board (and port) to apply the call on. Only port 10 (index 9) and wildcard port (0xFFFF) are currently supported. |
|----|----------------|-----------------------------------------------------------------------------------------------------------------------|

---

|    |                     |                      |
|----|---------------------|----------------------|
| in | <i>ASIBoardType</i> | The board's sub-type |
|----|---------------------|----------------------|

## 8.58 Measurements and alarms

This module groups measurements types, enums and methods as well as alarms related things.

### Classes

- struct [DCM::DeviceControl::MM\\_MessageMainPart](#)  
*Structure to pass Messages from the device to whatever client.*
- struct [DCM::DeviceControl::MM\\_Message](#)
- struct [DCM::DeviceControl::MessageBufferInfo](#)
- struct [DCM::DeviceControl::MessageSetting](#)  
*Message settings.*
- struct [DCM::DeviceControl::MM\\_MessageTypeSetting](#)  
*Message type settings.*
- struct [DCM::DeviceControl::MM\\_MessageSetting](#)  
*Measurement message settings.*
- struct [DCM::DeviceControl::MM\\_Measurement](#)
- struct [DCM::DeviceControl::MM\\_TypeInfo](#)
- struct [DCM::DeviceControl::MM\\_TypeInfo\\_V2](#)  
*V2 of [MM\\_TypeInfo](#): BackupTriggerMethod is added.*
- struct [DCM::DeviceControl::MM\\_MeasurementStat](#)
- struct [DCM::DeviceControl::BoardBitrateThreshold](#)  
*The bitrate threshold for video, audio and data service losses (board specific).*
- struct [DCM::DeviceControl::MM\\_MessageTypeErrorInterval](#)
- struct [DCM::DeviceControl::CofTrigger\\_t](#)  
*Structure used in the configuration of the triggers for card not operational failure alarms.*

### Typedefs

- typedef sequence< MM\_Message > [DCM::DeviceControl::MM\\_MessageList](#)  
*A sequence of [MM\\_Message](#).*
- typedef sequence < MM\_MessageTypeSetting > [DCM::DeviceControl::MM\\_MessageTypeSetting-List](#)  
*A sequence of [MM\\_MessageTypeSetting](#).*
- typedef sequence < MM\_MessageSetting > [DCM::DeviceControl::MM\\_MessageSettingList](#)  
*A sequence of [MM\\_MessageSetting](#).*
- typedef sequence< MM\_Measurement > [DCM::DeviceControl::MM\\_MeasurementList](#)  
*A sequence of [MM\\_Measurement](#).*
- typedef sequence< MM\_TypeInfo > [DCM::DeviceControl::MM\\_TypeInfoList](#)  
*A sequence of [MM\\_TypeInfo](#).*
- typedef sequence< MM\_TypeInfo\_V2 > [DCM::DeviceControl::MM\\_TypeInfoList\\_V2](#)  
*A sequence of [MM\\_TypeInfo\\_V2](#).*
- typedef sequence < MM\_MeasurementStat > [DCM::DeviceControl::MM\\_MeasurementStatList](#)  
*A sequence of [MM\\_MeasurementStat](#).*
- typedef sequence < MM\_MessageTypeErrorInterval > [DCM::DeviceControl::MM\\_MessageType-ErrorIntervalList](#)
- typedef sequence< CofTrigger\_t > [DCM::DeviceControl::CofTriggerList\\_t](#)  
*List of card not operational failure alarm triggers.*

## Enumerations

- enum `DCM::DeviceControl::MeasureType` { `DCM::DeviceControl::Binary`, `DCM::DeviceControl::Analog` }
- enum `DCM::DeviceControl::MeasureValidity` { `DCM::DeviceControl::MeasValidity_NotValid`, `DCM::DeviceControl::MeasValidity_NotDefined`, `DCM::DeviceControl::MeasValidity_Defined` }
- enum `DCM::DeviceControl::MM_ID_Category` { `DCM::DeviceControl::MM_ID_CatAll`, `DCM::DeviceControl::MM_ID_CatOther`, `DCM::DeviceControl::MM_ID_CatInput`, `DCM::DeviceControl::MM_ID_CatOutput` }

*Rosa Like message categories.*

- enum `DCM::DeviceControl::MsgSeverity` { `DCM::DeviceControl::Indeterminate`, `DCM::DeviceControl::Critical`, `DCM::DeviceControl::Major`, `DCM::DeviceControl::Minor`, `DCM::DeviceControl::Warning`, `DCM::DeviceControl::Cleared`, `DCM::DeviceControl::Information` }

*Rosa like message severity indicators.*

- enum `DCM::DeviceControl::MsgStatus` { `DCM::DeviceControl::Open`, `DCM::DeviceControl::Closed`, `DCM::DeviceControl::OpenMinorUpper`, `DCM::DeviceControl::OpenMinorLower`, `DCM::DeviceControl::OpenMajorUpper`, `DCM::DeviceControl::OpenMajorLower`, `DCM::DeviceControl::ClosedMinorUpper`, `DCM::DeviceControl::ClosedMinorLower`, `DCM::DeviceControl::ClosedMajorUpper`, `DCM::DeviceControl::ClosedMajorLower`, `DCM::DeviceControl::NotDefined`, `DCM::DeviceControl::NotValid` }

*Rosa like message status indicators.*

- enum `DCM::DeviceControl::MsgBehaviour` { `DCM::DeviceControl::NotPending`, `DCM::DeviceControl::ClearedByUser`, `DCM::DeviceControl::ClearedBySystem` }

*Rosa like message behaviour indicators.*

- enum `DCM::DeviceControl::MsgClass` { `DCM::DeviceControl::Communication`, `DCM::DeviceControl::Quality`, `DCM::DeviceControl::Processing`, `DCM::DeviceControl::Equipment`, `DCM::DeviceControl::Environmental` }

*Rosa like message classes.*

- enum `DCM::DeviceControl::MM_MeasureStatus` { `DCM::DeviceControl::AlarmBegin`, `DCM::DeviceControl::AlarmEnd` }
- enum `DCM::DeviceControl::DeviceLevel` { `DCM::DeviceControl::DL_DeviceLevel`, `DCM::DeviceControl::DL_BoardLevel`, `DCM::DeviceControl::DL_PortLevel`, `DCM::DeviceControl::DL_TSLevel`, `DCM::DeviceControl::DL_ServiceLevel`, `DCM::DeviceControl::DL_ComponentLevel` }
- enum `DCM::DeviceControl::eMessage` { `DCM::DeviceControl::ePAT`, `DCM::DeviceControl::ePMT`, `DCM::DeviceControl::eAudioVideoPid`, `DCM::DeviceControl::eDataPid` }
- enum `DCM::DeviceControl::eBoardPresenceTrigger_t` { `DCM::DeviceControl::ePresent`, `DCM::DeviceControl::eAlways` }

*Defines the triggers for raising a card not operational failure alarm.*

## Functions

- `MM_MessageList` `DCM::DeviceControl::MM_GetMessageList` (in unsigned long StartMsgNbr, in unsigned long EndMsgNbr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Used to get the a sequence of messages from the device.*

- `MessageBufferInfo` `DCM::DeviceControl::GetMessageBufferInfo` () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the current status of the MsgBuffer.*

- void `DCM::DeviceControl::GenerateTestMsg` () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*causes a test message to be sent.*

- void [DCM::DeviceControl::UpdatePendingTestAlarm](#) (in unsigned short Board, in octet Action, in string Detail) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*update a test alarm via user input.*

- void [DCM::DeviceControl::MM\\_GetAllOpenMsgStatus](#) (out unsigned short OldestSeqNumber, out unsigned short LatestSeqNumber, out MM\_Message OldestMessage, out MM\_Message LatestMessage, out MM\_MessageList OpenMessageList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets all messages with open status plus current message buffer info.*

- void [DCM::DeviceControl::MM\\_SetMsgTypeSettingL](#) (in IPS\_Ref\_t RefPhys, in MM\_MessageTypeSettingList List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set settings per message-type.*

- void [DCM::DeviceControl::MM\\_GetMsgTypeSettingL](#) (in IPS\_Ref\_t RefPhys, out MM\_MessageTypeSettingList List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get settings per message-type.*

- void [DCM::DeviceControl::MM\\_SetMsgSettingL](#) (in MM\_MessageSettingList List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set settings per message.*

- void [DCM::DeviceControl::MM\\_GetMsgSettingL](#) (out MM\_MessageSettingList List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get settings per message.*

- void [DCM::DeviceControl::SetAllMsgEnabled](#) (in octet AllMsgEnabled) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Specify whether all messages are enabled.*

- void [DCM::DeviceControl::GetAllMsgEnabled](#) (out octet AllMsgEnabled) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get Specification whether all messages are enabled.*

- MM\_TypeInfoList [DCM::DeviceControl::MM\\_GetTypeInfo](#) (in IPS\_Ref\_t RefPhys, in MM\_ID\_Category ID\_Cat, in DeviceLevel Level) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get static info of measurements according to category and level.*

- MM\_TypeInfoList\_V2 [DCM::DeviceControl::MM\\_GetTypeInfo\\_V2](#) (in IPS\_Ref\_t RefPhys, in MM\_ID\_Category ID\_Cat, in DeviceLevel Level) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get static info of measurements according to category and level (V2: field added).*

- MM\_TypeInfoList [DCM::DeviceControl::MM\\_GetTypeInfoForTypeIDs](#) (in unsigned short Board, in MM\_TypeIDList MM\_TypeIDs) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get static info of measurements according MM\_TypeID.*

- MM\_MeasurementStatList [DCM::DeviceControl::MM\\_GetNbrOpenMeasurements](#) (in IPS\_RefTS\_t TSref, in MM\_ID\_Category ID\_Cat, in DeviceLevel Level) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get number of open measurements according to category and level.*

- MM\_MeasurementStatList [DCM::DeviceControl::MM\\_GetNbrOpenMeasurementsOnLevel](#) (in IPS\_RefTS\_t TSref, in MM\_ID\_Category ID\_Cat, in DeviceLevel Level) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get number of open measurements according to category and level.*

- MM\_MeasurementList [DCM::DeviceControl::MM\\_GetAllMeasurements](#) (in IPS\_RefTS\_t TSref, in MM\_ID\_Category ID\_Cat, in DeviceLevel Level) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)



*Get all measurements according to category and level.*

- MM\_MeasurementList [DCM::DeviceControl::MM\\_GetOpenMeasurements](#) (in IPS\_RefTS\_t TSref, in MM\_ID\_Category ID\_Cat, in DeviceLevel Level) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get all open measurements according to category and level.*

- MM\_MeasurementList [DCM::DeviceControl::MM\\_GetMeasurements](#) (in IPS\_RefTS\_t TSref, in MM\_IDList List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get measurements according to a list of references.*

- void [DCM::DeviceControl::SetBitrateErrorThreshold](#) (in unsigned short BoardNr, in BoardBitrateThreshold BitrateThreshold) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the service loss bitrate threshold (for video, audio and data) on the given board.*

- void [DCM::DeviceControl::GetBitrateErrorThreshold](#) (in unsigned short BoardNr, out BoardBitrateThreshold BitrateThreshold) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the service loss bitrate threshold (for video, audio and data) on the given board.*

- void [DCM::DeviceControl::MM\\_SetErrorInterval](#) (in IPS\_Ref\_t RefPhys, in MM\_MessageTypeErrorIntervalList List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the intervals for the given messages on the given board.*

- void [DCM::DeviceControl::MM\\_GetErrorInterval](#) (in IPS\_Ref\_t RefPhys, out MM\_MessageTypeErrorIntervalList List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the error intervals for all error types on the given board.*

- void [DCM::DeviceControl::SetGenerateAlarmsIfGroomed](#) (in IPS\_Ref\_t RefPhys, in boolean GenerateGroomedOnly) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set whether alarms will only be generated if groomed.*

- void [DCM::DeviceControl::GetGenerateAlarmsIfGroomed](#) (in IPS\_Ref\_t RefPhys, out boolean GenerateGroomedOnly) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get whether alarms will only be generated for groomed services.*

- void [DCM::DeviceControl::SetNtpAlarmOffset](#) (in long Offset) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the NTP offset alarm threshold value.*

- void [DCM::DeviceControl::GetNtpAlarmOffset](#) (out long Offset) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the NTP offset alarm threshold value.*

- void [DCM::DeviceControl::SetCardOperFailureTriggers](#) (in CofTriggerList\_t TriggerList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the trigger for card not operational failure alarms for one or more cards.*

- void [DCM::DeviceControl::GetCardOperFailureTriggers](#) (out CofTriggerList\_t TriggerList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Retrieves the triggers for card not operational failure alarms for all cards.*

## Variables

- const octet [DCM::DeviceControl::PendingTestAlarm\\_Action\\_Set](#) = 1
- const octet [DCM::DeviceControl::PendingTestAlarm\\_Action\\_Clear](#) = 2
- const octet [DCM::DeviceControl::PendingTestAlarm\\_Action\\_SetClear](#) = 3
- const octet [DCM::DeviceControl::PendingTestAlarm\\_Action\\_ClearSet](#) = 4
- const octet [DCM::DeviceControl::PendingTestAlarm\\_Action\\_Register](#) = 5
- const octet [DCM::DeviceControl::PendingTestAlarm\\_Action\\_Unregister](#) = 6

- const octet [DCM::DeviceControl::PendingTestAlarm\\_Action\\_UnregisterRegisterSet](#) = 7
- const octet [DCM::DeviceControl::AlarmAsBackupTriggerMethod\\_NotAllowed](#) = 0  
*Alarm can not be used as backuptrigger.*
- const octet [DCM::DeviceControl::AlarmAsBackupTriggerMethod\\_Default](#) = 1  
*Alarm can be used as backuptrigger and will be displayed in the default way (non default presentations can be added)*

### 8.58.1 Detailed Description

This module groups measurements types, enums and methods as well as alarms related things.

### 8.58.2 Typedef Documentation

#### 8.58.2.1 typedef sequence<CofTrigger\_t> DCM::DeviceControl::CofTriggerList\_t

List of card not operational failure alarm triggers.

This is a sequence of [CofTrigger\\_t](#).

Definition at line 22951 of file DCM.idl.

#### 8.58.2.2 typedef sequence<MM\_Measurement> DCM::DeviceControl::MM\_MeasurementList

A sequence of [MM\\_Measurement](#).

Definition at line 22586 of file DCM.idl.

#### 8.58.2.3 typedef sequence<MM\_MeasurementStat> DCM::DeviceControl::MM\_MeasurementStat-List

A sequence of [MM\\_MeasurementStat](#).

Definition at line 22637 of file DCM.idl.

#### 8.58.2.4 typedef sequence<MM\_Message> DCM::DeviceControl::MM\_MessageList

A sequence of [MM\\_Message](#).

Definition at line 22342 of file DCM.idl.

#### 8.58.2.5 typedef sequence<MM\_MessageSetting> DCM::DeviceControl::MM\_MessageSettingList

A sequence of [MM\\_MessageSetting](#).

Definition at line 22474 of file DCM.idl.

#### 8.58.2.6 typedef sequence<MM\_MessageTypeErrorInterval> DCM::DeviceControl::MM\_Message- TypeErrorIntervalList

Definition at line 22851 of file DCM.idl.

#### 8.58.2.7 typedef sequence<MM\_MessageTypeSetting> DCM::DeviceControl::MM\_MessageType- SettingList

A sequence of [MM\\_MessageTypeSetting](#).

Definition at line 22471 of file DCM.idl.

**8.58.2.8 typedef sequence<MM\_TypeInfo> DCM::DeviceControl::MM\_TypeInfoList**

A sequence of [MM\\_TypeInfo](#).

Definition at line 22609 of file DCM.idl.

**8.58.2.9 typedef sequence<MM\_TypeInfo\_V2> DCM::DeviceControl::MM\_TypeInfoList\_V2**

A sequence of [MM\\_TypeInfo\\_V2](#).

Definition at line 22627 of file DCM.idl.

**8.58.3 Enumeration Type Documentation****8.58.3.1 enum DCM::DeviceControl::DeviceLevel**

Enumerator:

*DL\_DeviceLevel*  
*DL\_BoardLevel*  
*DL\_PortLevel*  
*DL\_TSLevel*  
*DL\_ServiceLevel*  
*DL\_ComponentLevel*

Definition at line 22588 of file DCM.idl.

**8.58.3.2 enum DCM::DeviceControl::eBoardPresenceTrigger\_t**

Defines the triggers for raising a card not operational failure alarm.

Enumerator:

*ePresent* Only trigger the card not operational failure alarm if the board < is physically present.  
*eAlways* Always trigger the card not operational failure alarm, even if < the board is not physically present.

Definition at line 22929 of file DCM.idl.

**8.58.3.3 enum DCM::DeviceControl::eMessage**

Enumerator:

*ePAT* PAT error.  
*ePMT* PMT error.  
*eAudioVideoPid* PID error for audio/video PIDs.  
*eDataPid* PID error for data PIDs.

Definition at line 22806 of file DCM.idl.

**8.58.3.4 enum DCM::DeviceControl::MeasureType**

Enumerator:

*Binary*

*Analog*

Definition at line 22237 of file DCM.idl.

**8.58.3.5 enum DCM::DeviceControl::MeasureValidity**

Enumerator:

*MeasValidity\_NotValid*

*MeasValidity\_NotDefined*

*MeasValidity\_Defined*

Definition at line 22243 of file DCM.idl.

**8.58.3.6 enum DCM::DeviceControl::MM\_ID\_Category**

Rosa Like message categories.

Enumerator:

*MM\_ID\_CatAll*

*MM\_ID\_CatOther*

*MM\_ID\_CatInput*

*MM\_ID\_CatOutput*

Definition at line 22251 of file DCM.idl.

**8.58.3.7 enum DCM::DeviceControl::MM\_MeasureStatus**

Enumerator:

*AlarmBegin* Major,Minor,Critical, Warning.

*AlarmEnd* Cleared.

Definition at line 22568 of file DCM.idl.

**8.58.3.8 enum DCM::DeviceControl::MsgBehaviour**

Rosa like message behaviour indicators.

Enumerator:

*NotPending*

*ClearedByUser*

*ClearedBySystem*

Definition at line 22289 of file DCM.idl.

**8.58.3.9 enum DCM::DeviceControl::MsgClass**

Rosa like message classes.

Enumerator:

*Communication*

*Quality*  
*Processing*  
*Equipment*  
*Environmental*

Definition at line 22297 of file DCM.idl.

#### 8.58.3.10 enum DCM::DeviceControl::MsgSeverity

Rosa like message severity indicators.

Enumerator:

*Indeterminate*  
*Critical*  
*Major*  
*Minor*  
*Warning*  
*Cleared*  
*Information*

Definition at line 22260 of file DCM.idl.

#### 8.58.3.11 enum DCM::DeviceControl::MsgStatus

Rosa like message status indicators.

Enumerator:

*Open*  
*Closed*  
*OpenMinorUpper*  
*OpenMinorLower*  
*OpenMajorUpper*  
*OpenMajorLower*  
*ClosedMinorUpper*  
*ClosedMinorLower*  
*ClosedMajorUpper*  
*ClosedMajorLower*  
*NotDefined*  
*NotValid*

Definition at line 22272 of file DCM.idl.

## 8.58.4 Function Documentation

**8.58.4.1** void DCM::DeviceControl::GenerateTestMsg ( ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

causes a test message to be sent.

## Exceptions

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                         |
| <i>OpNotSucceeded</i> | Never thrown.                                                         |
| <i>OpNotAllowed</i>   | Not logged on.                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version. |

**8.58.4.2** void DCM::DeviceControl::GetAllMsgEnabled ( out octet *AllMsgEnabled* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get Specification whether all messages are enabled.

## Parameters

|     |                      |                                |
|-----|----------------------|--------------------------------|
| out | <i>AllMsgEnabled</i> | 0=all disabled, 1=all enabled. |
|-----|----------------------|--------------------------------|

## Exceptions

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                         |
| <i>OpNotSucceeded</i> | A timeout occurred during IIOP processing.                            |
| <i>OpNotAllowed</i>   | Not logged on.                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version. |

**8.58.4.3** void DCM::DeviceControl::GetBitrateErrorThreshold ( in unsigned short *BoardNr*, out BoardBitrateThreshold *BitrateThreshold* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the service loss bitrate threshold (for video, audio and data) on the given board.

## Parameters

|     |                          |                                                                             |
|-----|--------------------------|-----------------------------------------------------------------------------|
| in  | <i>BoardNr</i>           | is the board number                                                         |
| out | <i>Bitrate-Threshold</i> | is the bitrate thresholds for video, audio and data service losses returned |

## Returns

List of thresholds for video, audio and data.

**8.58.4.4** void DCM::DeviceControl::GetCardOperFailureTriggers ( out CofTriggerList\_t *TriggerList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the triggers for card not operational failure alarms for all cards.

**Parameters**

|    |                    |                                                         |
|----|--------------------|---------------------------------------------------------|
| in | <i>TriggerList</i> | a list containing for each card a trigger configuration |
|----|--------------------|---------------------------------------------------------|

**Exceptions**

|                       |               |
|-----------------------|---------------|
| <i>OpNotAllowed</i>   | not logged on |
| <i>OpNotSucceeded</i> | never thrown  |
| <i>OpNotSupported</i> | never thrown  |
| <i>Timeout</i>        | never thrown  |

**8.58.4.5** void DCM::DeviceControl::GetGenerateAlarmsIfGroomed ( in IPS\_Ref\_t *RefPhys*, out boolean *GenerateGroomedOnly* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get whether alarms will only be generated for groomed services.

Board wide setting to filter alarms. When this option is set, alarms will only be generated for services that are referred to on the output (either active or configured as backup). By default, the generated only if groomed option will be set.

**Parameters**

|     |                               |                                                                                                                        |
|-----|-------------------------------|------------------------------------------------------------------------------------------------------------------------|
| in  | <i>RefPhys</i>                | specifies BoardNr and PortNr.                                                                                          |
| out | <i>GenerateGroomedOnly</i> ,: | TRUE if alarms are generated for groomed services FALSE if alarms are always generated (also for not groomed services) |

**Exceptions**

|                       |                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid references RefPhys (BoardNr, PortNr)</li> </ul> |

**8.58.4.6** MessageBufferInfo DCM::DeviceControl::GetMessageBufferInfo ( ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the current status of the MsgBuffer.

**Returns**

MM\_MessageList list of messages with MsgNbr between and including StartMsgNbr and EndMsgNbr.

**Exceptions**

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| <i>Timeout</i>        | Never thrown.                                                         |
| <i>OpNotSucceeded</i> | Never thrown.                                                         |
| <i>OpNotAllowed</i>   | Not logged on.                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version. |

**8.58.4.7** void DCM::DeviceControl::GetNtpAlarmOffset ( out long *Offset* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the NTP offset alarm threshold value.

#### Parameters

|     |               |                                                  |
|-----|---------------|--------------------------------------------------|
| out | <i>Offset</i> | NTP offset alarm threshold value in milliseconds |
|-----|---------------|--------------------------------------------------|

#### Exceptions

|                       |                                  |
|-----------------------|----------------------------------|
| <i>OpNotSupported</i> | when BoardNr != 0 ( Main board). |
|-----------------------|----------------------------------|

**8.58.4.8** MM\_MeasurementList DCM::DeviceControl::MM\_GetAllMeasurements ( in IPS\_RefTS\_t *TSref*, in MM\_ID\_Category *ID\_Cat*, in DeviceLevel *Level* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get all measurements according to category and level.

#### Parameters

|    |               |                                               |
|----|---------------|-----------------------------------------------|
| in | <i>TSref</i>  | Specifies BoardNr & PortNr.and TS.            |
| in | <i>ID_Cat</i> | Specifies category.                           |
| in | <i>Level</i>  | Specifies Level in hierarchy of measurements. |

#### Returns

MM\_MeasurementList list of measurements.

#### Exceptions

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• A timeout occurred during IIOP processing.</li> <li>• Invalid parameters.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                           |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                    |

#### Note

all measurements below the specified level are included.  
in MM\_MeasurementStatList, MM\_TypeID is always masked, other references are masked according to level.

**8.58.4.9** void DCM::DeviceControl::MM\_GetAllOpenMsgStatus ( out unsigned short *OldestSeqNumber*, out unsigned short *LatestSeqNumber*, out MM\_Message *OldestMessage*, out MM\_Message *LatestMessage*, out MM\_MessageList *OpenMessageList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets all messages with open status plus current message buffer info.



**Parameters**

|     |                         |                                                   |
|-----|-------------------------|---------------------------------------------------|
| out | <i>OldestSeq-Number</i> | sequence number of oldest message in buffer.      |
| out | <i>LatestSeq-Number</i> | sequence number of most recent message in buffer. |
| out | <i>OldestMessage</i>    | info of oldest message in buffer.                 |
| out | <i>LatestMessage</i>    | info of most recent message in buffer.            |
| out | <i>OpenMessage-List</i> | list of messages with open status.                |

**Exceptions**

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                         |
| <i>OpNotSucceeded</i> | A timeout occurred during IIOP processing.                            |
| <i>OpNotAllowed</i>   | Not logged on.                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version. |

**8.58.4.10** void DCM::DeviceControl::MM\_GetErrorInterval ( in IPS\_Ref\_t *RefPhys*, out MM\_MessageTypeErrorIntervalList *List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the error intervals for all error types on the given board.

**Parameters**

|     |                |                                               |
|-----|----------------|-----------------------------------------------|
| in  | <i>RefPhys</i> | board information, port is masked.            |
| out | <i>List</i>    | The MM_MessageTypeErrorIntervalList returned. |

**Returns**

List of all intervals.

**8.58.4.11** MM\_MeasurementList DCM::DeviceControl::MM\_GetMeasurements ( in IPS\_RefTS\_t *TSref*, in MM\_IDList *List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get measurements according to a list of references.

**Parameters**

|    |              |                                                                |
|----|--------------|----------------------------------------------------------------|
| in | <i>TSref</i> | Specifies BoardNr & PortNr.and TS (PortNr and TS are ignored). |
| in | <i>List</i>  | list of references.                                            |

**Returns**

MM\_MeasurementList list of measurements.

**Exceptions**

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• A timeout occurred during IIOP processing.</li> <li>• Invalid parameters.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                           |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                    |

**8.58.4.12** **MM\_MessageList DCM::DeviceControl::MM\_GetMessageList ( in unsigned long StartMsgNbr, in unsigned long EndMsgNbr ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Used to get the a sequence of messages from the device.

**Parameters**

|    |                    |                                 |
|----|--------------------|---------------------------------|
| in | <i>StartMsgNbr</i> | MsgNbr of first message to get. |
| in | <i>EndMsgNbr</i>   | MsgNbr of last message to get.  |

**Returns**

MM\_MessageList list of messages with MsgNbr between and including StartMsgNbr and EndMsgNbr.

**Exceptions**

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                         |
| <i>OpNotSucceeded</i> | A timeout occurred during IIOP processing.                            |
| <i>OpNotAllowed</i>   | Not logged on.                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version. |

**8.58.4.13** **void DCM::DeviceControl::MM\_GetMsgSettingL ( out MM\_MessageSettingList List ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Get settings per message.

**Parameters**

|     |             |                                                  |
|-----|-------------|--------------------------------------------------|
| out | <i>List</i> | Specifies messages and the settings per message. |
|-----|-------------|--------------------------------------------------|

**Exceptions**

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                         |
| <i>OpNotSucceeded</i> | A timeout occurred during IIOP processing.                            |
| <i>OpNotAllowed</i>   | Not logged on.                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version. |

**Note**

not implemented yet, so OpNotSupported will always be raised.  
a RefPhys parameter will probably be added.

**8.58.4.14** void DCM::DeviceControl::MM\_GetMsgTypeSettingL ( in IPS\_Ref\_t *RefPhys*, out MM\_MessageTypeSettingList *List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get settings per message-type.

**Parameters**

|     |                |                                                            |
|-----|----------------|------------------------------------------------------------|
| in  | <i>RefPhys</i> | Specifies BoardNr & PortNr (PortNr is ignored).            |
| out | <i>List</i>    | Specifies message-types and the settings per message-type. |

**Exceptions**

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• A timeout occurred during IIOP processing.</li> <li>• Invalid parameters.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                           |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                    |

**8.58.4.15** MM\_MeasurementStatList DCM::DeviceControl::MM\_GetNbrOpenMeasurements ( in IPS\_RefTS\_t *TSref*, in MM\_ID\_Category *ID\_Cat*, in DeviceLevel *Level* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get number of open measurements according to category and level.

**Parameters**

|    |               |                                               |
|----|---------------|-----------------------------------------------|
| in | <i>TSref</i>  | Specifies BoardNr & PortNr.and TS.            |
| in | <i>ID_Cat</i> | Specifies category.                           |
| in | <i>Level</i>  | Specifies Level in hierarchy of measurements. |

**Returns**

MM\_MeasurementStatList list of measurement statistics.

**Exceptions**

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• A timeout occurred during IIOP processing.</li> <li>• Invalid parameters.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                           |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                    |

**Note**

number of all open measurements below the specified level are included.  
 in MM\_MeasurementStatList, MM\_TypeID is always masked, other references are masked according to level.

**8.58.4.16 MM\_MeasurementStatList DCM::DeviceControl::MM\_GetNbrOpenMeasurementsOnLevel**  
 ( in IPS\_RefTS\_t *TSref*, in MM\_ID\_Category *ID\_Cat*, in DeviceLevel *Level* ) raises  
 (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get number of open measurements according to category and level.

**Parameters**

|    |               |                                               |
|----|---------------|-----------------------------------------------|
| in | <i>TSref</i>  | Specifies BoardNr & PortNr.and TS.            |
| in | <i>ID_Cat</i> | Specifies category.                           |
| in | <i>Level</i>  | Specifies Level in hierarchy of measurements. |

**Returns**

MM\_MeasurementStatList list of measurement statistics.

**Exceptions**

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• A timeout occurred during IIOP processing.</li> <li>• Invalid parameters.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                           |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                    |

**Note**

number of all open measurements below the specified level are NOT included.  
 in MM\_MeasurementStatList, MM\_TypeID is always masked, other references are masked according to level.

**Version**

7.0

**8.58.4.17 MM\_MeasurementList DCM::DeviceControl::MM\_GetOpenMeasurements** ( in  
 IPS\_RefTS\_t *TSref*, in MM\_ID\_Category *ID\_Cat*, in DeviceLevel *Level* ) raises (TimeOut,  
 OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get all open measurements according to category and level.

**Parameters**

|    |               |                                               |
|----|---------------|-----------------------------------------------|
| in | <i>TSref</i>  | Specifies BoardNr & PortNr.and TS.            |
| in | <i>ID_Cat</i> | Specifies category.                           |
| in | <i>Level</i>  | Specifies Level in hierarchy of measurements. |

**Returns**

MM\_MeasurementList list of open measurements.

**Exceptions**

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• A timeout occurred during IIOP processing.</li> <li>• Invalid parameters.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                           |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                    |

**Note**

all measurements below the specified level are included.  
in MM\_MeasurementStatList, MM\_TypeID is always masked, other references are masked according to level.

#### 8.58.4.18 MM\_TypeInfoList DCM::DeviceControl::MM\_GetTypeInfo ( in IPS\_Ref\_t *RefPhys*, in MM\_ID\_Category *ID\_Cat*, in DeviceLevel *Level* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get static info of measurements according to category and level.

**Parameters**

|    |                |                                               |
|----|----------------|-----------------------------------------------|
| in | <i>RefPhys</i> | Specifies BoardNr & PortNr.                   |
| in | <i>ID_Cat</i>  | Specifies category.                           |
| in | <i>Level</i>   | Specifies Level in hierarchy of measurements. |

**Returns**

MM\_TypeInfoList list of static measurement info.

**Exceptions**

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• A timeout occurred during IIOP processing.</li> <li>• Invalid parameters.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                           |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                    |

**Note**

info of all measurements below the specified level are included.

**8.58.4.19** `MM_TypeInfoList_V2 DCM::DeviceControl::MM_GetTypeInfo_V2 ( in IPS_Ref_t RefPhys, in MM_ID_Category ID_Cat, in DeviceLevel Level )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get static info of measurements according to category and level (V2: field added).

**Parameters**

|    |                |                                               |
|----|----------------|-----------------------------------------------|
| in | <i>RefPhys</i> | Specifies BoardNr & PortNr.                   |
| in | <i>ID_Cat</i>  | Specifies category.                           |
| in | <i>Level</i>   | Specifies Level in hierarchy of measurements. |

**Returns**

MM\_TypeInfoList list of static measurement info.

**Exceptions**

|                       |                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                         |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"><li>• A timeout occurred during IIOP processing.</li><li>• Invalid parameters.</li></ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                 |

**Note**

info of all measurements below the specified level are included.

**8.58.4.20** `MM_TypeInfoList DCM::DeviceControl::MM_GetTypeInfoForTypeIDs ( in unsigned short Board, in MM_TypeIDList MM_TypeIDs )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get static info of measurements according MM\_TypeID.

**Parameters**

|    |                   |                                                                  |
|----|-------------------|------------------------------------------------------------------|
| in | <i>Board</i>      | Specifies BoardNr.                                               |
| in | <i>MM_TypeIDs</i> | Specifies list of MM_TypeIDs for which the TypeInfo is required. |

**Returns**

MM\_TypeInfoList list of static measurement info.

**Exceptions**

|                       |                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                             |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• A timeout occurred during IIOP processing.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                            |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                     |

**8.58.4.21** void DCM::DeviceControl::MM\_SetErrorInterval ( in IPS\_Ref\_t *RefPhys*, in MM\_MessageTypeErrorIntervalList *List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the intervals for the given messages on the given board.

**Parameters**

|    |                |                                   |
|----|----------------|-----------------------------------|
| in | <i>RefPhys</i> | board information, port is masked |
| in | <i>List</i>    | list of error intervals           |

**Exceptions**

|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | If RefPhys port isn't masked, List's RefPhys isn't equal to RefPhys parameter or one of the values is out of range, or an invalid board is specified. |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

**8.58.4.22** void DCM::DeviceControl::MM\_SetMsgSettingL ( in MM\_MessageSettingList *List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set settings per message.

**Parameters**

|    |             |                                                  |
|----|-------------|--------------------------------------------------|
| in | <i>List</i> | Specifies messages and the settings per message. |
|----|-------------|--------------------------------------------------|

**Exceptions**

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• A timeout occurred during IIOP processing.</li> <li>• Invalid parameters.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                           |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                    |

**Note**

not implemented yet, so OpNotSupported will always be raised.  
a RefPhys parameter will probably be added.

**8.58.4.23** void DCM::DeviceControl::MM\_SetMsgTypeSettingL ( in IPS\_Ref\_t *RefPhys*, in MM\_MessageTypeSettingList *List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set settings per message-type.

**Parameters**

|    |                |                                                            |
|----|----------------|------------------------------------------------------------|
| in | <i>RefPhys</i> | Specifies BoardNr & PortNr (PortNr is ignored).            |
| in | <i>List</i>    | Specifies message-types and the settings per message-type. |

**Exceptions**

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>• A timeout occurred during IIOP processing.</li> <li>• Invalid parameters.</li> </ul> |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                           |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version.                                                                    |

**8.58.4.24** void DCM::DeviceControl::SetAllMsgEnabled ( in octet *AllMsgEnabled* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Specify whether all messages are enabled.

**Parameters**

|    |                      |                                        |
|----|----------------------|----------------------------------------|
| in | <i>AllMsgEnabled</i> | 0=all disabled, otherwise all enabled. |
|----|----------------------|----------------------------------------|

**Exceptions**

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                         |
| <i>OpNotSucceeded</i> | A timeout occurred during IIOP processing.                            |
| <i>OpNotAllowed</i>   | Not logged on.                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version. |

**8.58.4.25** void DCM::DeviceControl::SetBitrateErrorThreshold ( in unsigned short *BoardNr*, in BoardBitrateThreshold *BitrateThreshold* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the service loss bitrate threshold (for video, audio and data) on the given board.

**Parameters**

|    |                          |                                                                   |
|----|--------------------------|-------------------------------------------------------------------|
| in | <i>BoardNr</i>           | is the board number                                               |
| in | <i>Bitrate-Threshold</i> | is the bitrate threshold for video, audio and data service losses |



**Exceptions**

|                       |                                                                         |
|-----------------------|-------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | If one of the values is out of range, or an invalid board is specified. |
|-----------------------|-------------------------------------------------------------------------|

**8.58.4.26** void DCM::DeviceControl::SetCardOperFailureTriggers ( in CofTriggerList\_t *TriggerList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the trigger for card not operational failure alarms for one or more cards.

**Parameters**

|    |                    |                                                         |
|----|--------------------|---------------------------------------------------------|
| in | <i>TriggerList</i> | a list containing for each card a trigger configuration |
|----|--------------------|---------------------------------------------------------|

**Exceptions**

|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | when TriggerList is emptyr or TriggerList contains a CofTrigger with BoardNr equal to invalid number, e.g. 0 (Main board) or overflow. |
| <i>OpNotAllowed</i>   | not logged on                                                                                                                          |
| <i>OpNotSupported</i> | never thrown                                                                                                                           |
| <i>Timeout</i>        | never thrown                                                                                                                           |

**8.58.4.27** void DCM::DeviceControl::SetGenerateAlarmsIfGroomed ( in IPS\_Ref\_t *RefPhys*, in boolean *GenerateGroomedOnly* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set whether alarms will only be generated if groomed.

Board wide setting to filter alarms. When this option is set, alarms will only be generated for services that are referred to on the output (either active or configured as backup). This is the default.

**Parameters**

|    |                               |                                                                                                                        |
|----|-------------------------------|------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i>                | specifies BoardNr and PortNr.                                                                                          |
| in | <i>Generate-GroomedOnly,:</i> | TRUE if alarms are generated for groomed services FALSE if alarms are always.generated (also for not groomed services) |

**Exceptions**

|                       |                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when BoardNr = 0 = Main board.                                                                            |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid references RefPhys (BoardNr, PortNr)</li> </ul> |

**Note**

This setting only affects service loss alarms in version 3.0.

**8.58.4.28** void DCM::DeviceControl::SetNtpAlarmOffset ( in long *Offset* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the NTP offset alarm threshold value.

**Parameters**

|           |               |                                                  |
|-----------|---------------|--------------------------------------------------|
| <i>in</i> | <i>Offset</i> | NTP offset alarm threshold value in milliseconds |
|-----------|---------------|--------------------------------------------------|

**Exceptions**

|                       |                                 |
|-----------------------|---------------------------------|
| <i>OpNotSupported</i> | when BoardNr != 0 (Main board). |
|-----------------------|---------------------------------|

**8.58.4.29** void DCM::DeviceControl::UpdatePendingTestAlarm ( in unsigned short *Board*, in octet *Action*, in string *Detail* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

update a test alarm via user input.

**Parameters**

|           |               |                                                            |
|-----------|---------------|------------------------------------------------------------|
| <i>in</i> | <i>Board</i>  | Update Alarm on a certain board (in a multi-board device). |
| <i>in</i> | <i>Action</i> | Update Alarm according to a certain action (see above).    |
| <i>in</i> | <i>Detail</i> | Update Alarm Detail (only visible when alarm is set).      |

**Exceptions**

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| <i>TimeOut</i>        | Never thrown.                                                         |
| <i>OpNotSucceeded</i> | Never thrown.                                                         |
| <i>OpNotAllowed</i>   | Not logged on.                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version. |

**8.58.5 Variable Documentation**

**8.58.5.1** const octet DCM::DeviceControl::AlarmAsBackupTriggerMethod\_Default = 1

Alarm can be used as backuptrigger and will be displayed in the default way (non default presentations can be added)

Definition at line 22612 of file DCM.idl.

**8.58.5.2** const octet DCM::DeviceControl::AlarmAsBackupTriggerMethod\_NotAllowed = 0

Alarm can not be used as backuptrigger.

Definition at line 22611 of file DCM.idl.

**8.58.5.3** const octet DCM::DeviceControl::PendingTestAlarm\_Action\_Clear = 2

Definition at line 22373 of file DCM.idl.

**8.58.5.4** const octet DCM::DeviceControl::PendingTestAlarm\_Action\_ClearSet = 4

Definition at line 22375 of file DCM.idl.

**8.58.5.5** const octet DCM::DeviceControl::PendingTestAlarm\_Action\_Register = 5

Definition at line 22376 of file DCM.idl.

**8.58.5.6** `const octet DCM::DeviceControl::PendingTestAlarm_Action_Set = 1`

Definition at line 22372 of file DCM.idl.

**8.58.5.7** `const octet DCM::DeviceControl::PendingTestAlarm_Action_SetClear = 3`

Definition at line 22374 of file DCM.idl.

**8.58.5.8** `const octet DCM::DeviceControl::PendingTestAlarm_Action_Unregister = 6`

Definition at line 22377 of file DCM.idl.

**8.58.5.9** `const octet DCM::DeviceControl::PendingTestAlarm_Action_UnregisterRegisterSet = 7`

Definition at line 22378 of file DCM.idl.

## 8.59 Statmux.

Types and methods used to configure D9036 Statmux.

Types and methods used to configure D9036 Statmux.

### Version

release 9.0

## 8.60 IPsec

Types and methods to configure IPsec on the management ports.

### Classes

- struct [DCM::DeviceControl::IPSecHost](#)

### Typedefs

- typedef sequence< IPSecHost > [DCM::DeviceControl::IPSecHostList](#)

### Functions

- void [DCM::DeviceControl::IPSec\\_HostAddL](#) (in IPSecHostList HostList) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Adds a host for which [DCM](#) requires IPsec to be used in order to communicate over the management network.*
- void [DCM::DeviceControl::IPSec\\_HostDeleteL](#) (in IPSecHostList HostList) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Removes a host for which [DCM](#) requires IPsec to be used in order to communicate over the management network.*
- void [DCM::DeviceControl::IPSec\\_HostChangeL](#) (in IPSecHostList HostList) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Changes the pre-shared key for a host.*
- void [DCM::DeviceControl::IPSec\\_HostGetL](#) (out IPSecHostList HostList) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Returns the list of hosts for which [DCM](#) requires IPsec to be used in order to communicate over the management network.*
- void [DCM::DeviceControl::IPSec\\_SetRequireIPSec](#) (in IPS\_Ref\_t PhysPort, in boolean enabled) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Enables or disables non-IPsec IP data for the given management interface.*
- void [DCM::DeviceControl::IPSec\\_GetRequireIPSec](#) (in IPS\_Ref\_t PhysPort, out boolean enabled) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Indicates whether non-IPsec IP data is allowed to go through the given management port.*

#### 8.60.1 Detailed Description

Types and methods to configure IPsec on the management ports.

#### 8.60.2 Typedef Documentation

##### 8.60.2.1 typedef sequence<IPSecHost> DCM::DeviceControl::IPSecHostList

Definition at line 24455 of file DCM.idl.

## 8.60.3 Function Documentation

**8.60.3.1 void DCM::DeviceControl::IPSec\_GetRequireIPSec ( in IPS\_Ref t *PhysPort*, out boolean *enabled* ) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Indicates whether non-IPSec IP data is allowed to go through the given management port.

## Parameters

|     |                 |                                                                                |
|-----|-----------------|--------------------------------------------------------------------------------|
| in  | <i>PhysPort</i> | Physical port. Board must be 0 (mainboard), Port must be 0 (10/100) or 1 (GbE) |
| out | <i>enabled</i>  | True if non-IPSec traffic is allowed for the management port.                  |

## Exceptions

|                       |                                             |
|-----------------------|---------------------------------------------|
| <i>OpNotSucceeded</i> | PhysPort does not specify a valid mgmt port |
|-----------------------|---------------------------------------------|

**8.60.3.2 void DCM::DeviceControl::IPSec\_HostAddL ( in IPSecHostList *HostList* ) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Adds a host for which [DCM](#) requires IPsec to be used in order to communicate over the management network.

## Parameters

|    |                 |                                                                                                            |
|----|-----------------|------------------------------------------------------------------------------------------------------------|
| in | <i>HostList</i> | List of hosts to add, where each host has a valid unicast ip address and a keylength not greater than 200. |
|----|-----------------|------------------------------------------------------------------------------------------------------------|

## Exceptions

|                       |                                                                                    |
|-----------------------|------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | A host has already been added, the IP address is not valid or the key is too long. |
|-----------------------|------------------------------------------------------------------------------------|

**8.60.3.3 void DCM::DeviceControl::IPSec\_HostChangeL ( in IPSecHostList *HostList* ) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Changes the pre-shared key for a host.

## Parameters

|    |                 |                                             |
|----|-----------------|---------------------------------------------|
| in | <i>HostList</i> | List of hosts to change pre-shared key for. |
|----|-----------------|---------------------------------------------|

## Exceptions

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| <i>OpNotSucceeded</i> | A host is not known or a pre-shared key is too long. |
|-----------------------|------------------------------------------------------|

**8.60.3.4 void DCM::DeviceControl::IPSec\_HostDeleteL ( in IPSecHostList *HostList* ) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Removes a host for which [DCM](#) requires IPsec to be used in order to communicate over the management network.

**Parameters**

|    |                 |                                                                            |
|----|-----------------|----------------------------------------------------------------------------|
| in | <i>HostList</i> | List of hosts to delete. Only the IP-address is used to identify the host. |
|----|-----------------|----------------------------------------------------------------------------|

**Exceptions**

|                       |                      |
|-----------------------|----------------------|
| <i>OpNotSucceeded</i> | A host is not known. |
|-----------------------|----------------------|

**Note**

If the last host is deleted, the device will automatically allow non-IPSec traffic to the device and it is not re-enabled when adding new hosts.

### 8.60.3.5 void DCM::DeviceControl::IPSec\_HostGetL ( out IPSecHostList *HostList* ) raises (Timeout, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Returns the list of hosts for which **DCM** requires IPSec to be used in order to communicate over the management network.

**Returns**

*HostList* List of hosts. The PreSharedKey field of the entries will contain a dummy string instead of the real key.

### 8.60.3.6 void DCM::DeviceControl::IPSec\_SetRequireIPSec ( in IPS\_Ref\_t *PhysPort*, in boolean *enabled* ) raises (Timeout, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Enables or disables non-IPSec IP data for the given management interface.

Non-IPSec traffic is enabled by default. If IPSec hosts are configured and both interfaces allow non-IPSec traffic, then IPSec usage is optional. As soon as an interface disables non-IPSec traffic, the use of IPSec becomes mandatory.

**Parameters**

|    |                 |                                                                                |
|----|-----------------|--------------------------------------------------------------------------------|
| in | <i>PhysPort</i> | Physical port. Board must be 0 (mainboard), Port must be 0 (10/100) or 1 (GbE) |
| in | <i>enabled</i>  | True to allow non-IPSec traffic for the management interface, false otherwise  |

**Exceptions**

|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | PhysPort does not specify a valid mgmt interface or an attempt was made to disable non-IPSec traffic while no IPSec hosts were defined |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|

## 8.61 SecurityPSB

Types and methods related to compliance with PSB.

### Classes

- struct [DCM::DeviceControl::ExtIpServiceCtrl](#)
- struct [DCM::DeviceControl::IpServiceDisplayData](#)

*Description of an active or listening port.*

### Typedefs

- typedef sequence < ExtIpServiceCtrl > [DCM::DeviceControl::ExtIpServiceCtrlList](#)
- typedef sequence < IpServiceDisplayData > [DCM::DeviceControl::IpServiceDisplayDataList](#)

### Enumerations

- enum [DCM::DeviceControl::eExtIpServices](#) { [DCM::DeviceControl::eIpServiceIIOP](#), [DCM::DeviceControl::eIpServiceSSH](#), [DCM::DeviceControl::eIpServiceFTP](#), [DCM::DeviceControl::eIpServiceSNMP](#), [DCM::DeviceControl::eIpServiceIPConfig](#), [DCM::DeviceControl::eIpServiceTelnet](#), [DCM::DeviceControl::eIpServiceSNMPSvcConf](#), [DCM::DeviceControl::eIpService\\_Reserved\\_9](#), [DCM::DeviceControl::eIpService\\_Reserved\\_8](#), [DCM::DeviceControl::eIpService\\_Reserved\\_7](#), [DCM::DeviceControl::eIpService\\_Reserved\\_6](#), [DCM::DeviceControl::eIpService\\_Reserved\\_5](#), [DCM::DeviceControl::eIpService\\_Reserved\\_4](#), [DCM::DeviceControl::eIpService\\_Reserved\\_3](#), [DCM::DeviceControl::eIpService\\_Reserved\\_2](#), [DCM::DeviceControl::eIpService\\_Reserved\\_1](#), [DCM::DeviceControl::eIpService\\_Reserved\\_0](#) }

*IP services that are externally visible and that can be configured.*

- enum [DCM::DeviceControl::enPSBSocketType](#) { [DCM::DeviceControl::ePsbSocketTypeTcp](#), [DCM::DeviceControl::ePsbSocketTypeUdp](#), [DCM::DeviceControl::ePsbSocketTypeTcp6](#), [DCM::DeviceControl::ePsbSocketTypeUdp6](#), [DCM::DeviceControl::ePsbSocketTypeReserved7](#), [DCM::DeviceControl::ePsbSocketTypeReserved6](#), [DCM::DeviceControl::ePsbSocketTypeReserved5](#), [DCM::DeviceControl::ePsbSocketTypeReserved4](#), [DCM::DeviceControl::ePsbSocketTypeReserved3](#), [DCM::DeviceControl::ePsbSocketTypeReserved2](#), [DCM::DeviceControl::ePsbSocketTypeReserved1](#), [DCM::DeviceControl::ePsbSocketTypeReserved0](#) }

*Transport layer protocol type of a socket.*

### Functions

- void [DCM::DeviceControl::SetExternalIpServicesL](#) (in ExtIpServiceCtrlList Services) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Enable/disable a number of externally visible IP services.*
- void [DCM::DeviceControl::GetExternalIpServicesL](#) (out ExtIpServiceCtrlList Services) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieve a list of services that can be enabled/disabled on the mainboard together with the current status of that service.*
- void [DCM::DeviceControl::GetListeningIpServicesL](#) (in unsigned short Board, out IpServiceDisplayDataList Listeners) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves a list of active and listening TCP/IP ports, alike netstat.*



### 8.61.1 Detailed Description

Types and methods related to compliance with PSB.

### 8.61.2 Typedef Documentation

#### 8.61.2.1 typedef sequence<ExtIpServiceCtrl> DCM::DeviceControl::ExtIpServiceCtrlList

Definition at line 24579 of file DCM.idl.

#### 8.61.2.2 typedef sequence<IpServiceDisplayData> DCM::DeviceControl::IpServiceDisplayDataList

Definition at line 24653 of file DCM.idl.

### 8.61.3 Enumeration Type Documentation

#### 8.61.3.1 enum DCM::DeviceControl::eExtIpServices

IP services that are externally visible and that can be configured.

Enumerator:

*eIpServiceIIOP*  
*eIpServiceSSH*  
*eIpServiceFTP*  
*eIpServiceSNMP*  
*eIpServiceIPConfig*  
*eIpServiceTelnet*  
*eIpServiceSNMPSvcConf*  
*eIpService\_Reserved\_9*  
*eIpService\_Reserved\_8*  
*eIpService\_Reserved\_7*  
*eIpService\_Reserved\_6*  
*eIpService\_Reserved\_5*  
*eIpService\_Reserved\_4*  
*eIpService\_Reserved\_3*  
*eIpService\_Reserved\_2*  
*eIpService\_Reserved\_1*  
*eIpService\_Reserved\_0*

Definition at line 24554 of file DCM.idl.

#### 8.61.3.2 enum DCM::DeviceControl::enPSBSocketType

Transport layer protocol type of a socket.

Enumerator:

*ePsbSocketTypeTcp*

*ePsbSocketTypeUdp*  
*ePsbSocketTypeTcp6*  
*ePsbSocketTypeUdp6*  
*ePsbSocketTypeReserved7*  
*ePsbSocketTypeReserved6*  
*ePsbSocketTypeReserved5*  
*ePsbSocketTypeReserved4*  
*ePsbSocketTypeReserved3*  
*ePsbSocketTypeReserved2*  
*ePsbSocketTypeReserved1*  
*ePsbSocketTypeReserved0*

Definition at line 24621 of file DCM.idl.

#### 8.61.4 Function Documentation

**8.61.4.1** void DCM::DeviceControl::GetExternalIpServicesL ( out ExtIpServiceCtrlList *Services* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieve a list of services that can be enabled/disabled on the mainboard together with the current status of that service.

##### Parameters

|     |                 |                      |
|-----|-----------------|----------------------|
| out | <i>Services</i> | The list of services |
|-----|-----------------|----------------------|

##### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSupported</i> | when BoardNr != 0 (Main board).            |
| <i>OpNotAllowed</i>   | Not logged on.                             |
| <i>OpNotSucceeded</i> | Internal error                             |

##### Version

Release 8.1

**8.61.4.2** void DCM::DeviceControl::GetListeningIpServicesL ( in unsigned short *Board*, out IpServiceDisplayDataList *Listeners* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves a list of active and listening TCP/IP ports, alike netstat.

##### Parameters

|     |                  |                            |
|-----|------------------|----------------------------|
| in  | <i>Board</i>     | Board number               |
| out | <i>Listeners</i> | Netstat-like list of ports |

**Exceptions**

|                       |                                                                              |
|-----------------------|------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                   |
| <i>OpNotSupported</i> | when BoardNr doesn't correspond to mainboard, GbE card or IP video GW card.  |
| <i>OpNotAllowed</i>   | Not logged on.                                                               |
| <i>OpNotSucceeded</i> | In case <ul style="list-style-type: none"> <li>board out of range</li> </ul> |

**Version**

Release 8.1

**8.61.4.3** void DCM::DeviceControl::SetExternalIpServicesL ( in ExtIpServiceCtrlList *Services* )  
 raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Enable/disable a number of externally visible IP services.

Only the services that are returned by GetExternalIpServicesL can be configured.

**Parameters**

|    |                 |                                                   |
|----|-----------------|---------------------------------------------------|
| in | <i>Services</i> | List of the services that need to be reconfigured |
|----|-----------------|---------------------------------------------------|

**Exceptions**

|                       |                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.                                                                                                        |
| <i>OpNotSupported</i> | when BoardNr != 0 (Main board).                                                                                                                   |
| <i>OpNotAllowed</i>   | Not logged on.                                                                                                                                    |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>list contains duplicate service types</li> <li>service type out of range or reserved</li> </ul> |

**Note**

This call doesn't follow the until first error approach. If an error is found in the input parameter, no settings are applied.

**Version**

Release 8.1

## 8.62 SCRAMBLER

This module contains types, enums and methods related to the scrambler.

### Classes

- struct `DCM::DeviceControl::JclInitialValue_t`  
*JCL initial value for Hitachi.*
- struct `DCM::DeviceControl::JclSystemId_t`  
*JCL system ID for Hitachi.*

### Typedefs

- typedef sequence< unsigned long > `DCM::DeviceControl::IdList`  
*list of ID's (for several purposes)*
- typedef sequence< unsigned short > `DCM::DeviceControl::EcmIdList`  
*list of EcmId's*
- typedef sequence< unsigned short > `DCM::DeviceControl::DataIdList`  
*list of DataId's*

### Enumerations

- enum `DCM::DeviceControl::eEcmgType` { `DCM::DeviceControl::EcmgStandard`, `DCM::DeviceControl::M_Crypt`, `DCM::DeviceControl::Nagra`, `DCM::DeviceControl::Hitachi` }  
*ECMG type.*
- enum `DCM::DeviceControl::eEcmgType_V2` { `DCM::DeviceControl::EcmgType_Standard`, `DCM::DeviceControl::EcmgType_M_Crypt`, `DCM::DeviceControl::EcmgType_Nagra`, `DCM::DeviceControl::EcmgType_Hitachi`, `DCM::DeviceControl::EcmgType_PowerVu`, `DCM::DeviceControl::EcmgType_Reserved5`, `DCM::DeviceControl::EcmgType_Reserved6`, `DCM::DeviceControl::EcmgType_Reserved7`, `DCM::DeviceControl::EcmgType_Reserved8` }  
*ECMG type.*
- enum `DCM::DeviceControl::eEcmPidSource` { `DCM::DeviceControl::EcmId`, `DCM::DeviceControl::EcmPidSourceAuto` }  
*ECM pid source.*
- enum `DCM::DeviceControl::eEcmgChannelIdMode` { `DCM::DeviceControl::EcmgChannelIdManual`, `DCM::DeviceControl::EcmgChannelIdAuto` }  
*ECMG channel\_id allocation.*
- enum `DCM::DeviceControl::eEcmgConnectionStatus` { `DCM::DeviceControl::EcmgClosed`, `DCM::DeviceControl::EcmgTryingToConnect`, `DCM::DeviceControl::EcmgEstablishingChannel`, `DCM::DeviceControl::EcmgChannelOpen` }  
*ECMG connection status.*
- enum `DCM::DeviceControl::eEcmgDescRuleType` { `DCM::DeviceControl::EcmgAddPrivateData`, `DCM::DeviceControl::EcmgDoNotInsertDescriptor` }  
*Type of ECMG descriptor rule.*
- enum `DCM::DeviceControl::eDescInsertionLevel` { `DCM::DeviceControl::FollowScg`, `DCM::DeviceControl::InsertAtESLevel` }  
*Insertion level of ECMG descriptor in PMT.*

- enum `DCM::DeviceControl::eDescInsertionLevel_V2` { `DCM::DeviceControl::FollowScg_V2`, `DCM::DeviceControl::InsertAtESLevel_V2`, `DCM::DeviceControl::InsertAtServiceLevel_V2`, `DCM::DeviceControl::eDescInsertionLevel_V2_Reserved4`, `DCM::DeviceControl::eDescInsertionLevel_V2_Reserved5`, `DCM::DeviceControl::eDescInsertionLevel_V2_Reserved6` }  
*Insertion level of ECMG descriptor in PMT.*
- enum `DCM::DeviceControl::eDataSocket` { `DCM::DeviceControl::TCP`, `DCM::DeviceControl::UDP` }  
*Type of data for socket.*
- enum `DCM::DeviceControl::eEmmPidSource` { `DCM::DeviceControl::StreamId`, `DCM::DeviceControl::ChannelId`, `DCM::DeviceControl::DataId`, `DCM::DeviceControl::PacketId`, `DCM::DeviceControl::EmmPidSourceAuto` }  
*EMM pid source.*
- enum `DCM::DeviceControl::eEmmSectionGrouping` { `DCM::DeviceControl::NoGrouping`, `DCM::DeviceControl::Grouping` }  
*Enable/disable section grouping for EMM's.*
- enum `DCM::DeviceControl::eConnectionState` { `DCM::DeviceControl::EmmWaitingForConnect`, `DCM::DeviceControl::EmmWaitingForChannel`, `DCM::DeviceControl::EmmChannelOpen` }
- enum `DCM::DeviceControl::eEmmgDescRuleType` { `DCM::DeviceControl::EmmgAddPrivateData`, `DCM::DeviceControl::EmmgDoNotInsertDescriptor` }  
*Type of EMMG descriptor rule.*
- enum `DCM::DeviceControl::eEisType` { `DCM::DeviceControl::SaEis`, `DCM::DeviceControl::CaVendorEis` }  
*EIS type.*
- enum `DCM::DeviceControl::eCwgType` { `DCM::DeviceControl::CwgType_PowerVu`, `DCM::DeviceControl::CwgType_Reserved2`, `DCM::DeviceControl::CwgType_Reserved3` }  
*CWG proxy type.*
- enum `DCM::DeviceControl::eCwgChannelIdMode` { `DCM::DeviceControl::CwgChannelIdManual`, `DCM::DeviceControl::CwgChannelIdAuto` }  
*CWG channel\_id allocation.*
- enum `DCM::DeviceControl::eCwgConnectionStatus` { `DCM::DeviceControl::CwgClosed`, `DCM::DeviceControl::CwgTryingToConnect`, `DCM::DeviceControl::CwgEstablishingChannel`, `DCM::DeviceControl::CwgChannelOpen` }  
*CWG connection status.*

## Functions

- void `DCM::DeviceControl::IsScrambler` (out boolean `bScrambler`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Notifies the client whether it is a scrambler or not.*
- void `DCM::DeviceControl::SetDeviceAsBackup` (in boolean `bIsBackup`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set the device (DCM) as backup device or not.*
- void `DCM::DeviceControl::SetScsSettings` (in boolean `ScrambleOnlyAV`, in boolean `CheckElementsAtProvisionTime`, in unsigned long `ScgAcceptDelay`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set global SCS settings.*
- void `DCM::DeviceControl::GetScsSettings` (out boolean `ScrambleOnlyAV`, out boolean `CheckElementsAtProvisionTime`, out unsigned long `ScgAcceptDelay`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get global SCS settings.*

- void **DCM::DeviceControl::SetClearStrongPairingEnforceBit** (in boolean bClearStrongPairingEnforcementBit) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

*Set strong pairing enforcement bit clear flag (NDS specific).*

- void **DCM::DeviceControl::GetClearStrongPairingEnforceBit** (out boolean bClearStrongPairingEnforcementBit) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get strong pairing enforcement bit clear flag (NDS specific).*

- void **DCM::DeviceControl::SetJclConfig** (in JclInitialValue\_t InitialValue, in JclSystemId\_t SystemId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set JCL configuration.*

- void **DCM::DeviceControl::GetJclConfig** (out JclInitialValue\_t InitialValue, out JclSystemId\_t SystemId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get JCL configuration.*

- void **DCM::DeviceControl::GetInterfaceList** (out IdList EcmgIds, out IdList EmmgIds, out IdList EisIds, out IdList PsigIds, out IdList MCryptEisIds, out IdList MCryptPsigIds) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get list of configured proxies.*

- void **DCM::DeviceControl::GetInterfaceList\_V2** (out IdList EcmgIds, out IdList EmmgIds, out IdList EisIds, out IdList PsigIds, out IdList CwgIds) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get list of configured proxies.*

- void **DCM::DeviceControl::CreateEcmg** (out unsigned long EcmgId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create an ECMG proxy.*

- void **DCM::DeviceControl::DeleteEcmg** (in unsigned long EcmgId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Delete an ECMG proxy.*

- void **DCM::DeviceControl::SetEcmgConfig** (in unsigned long EcmgId, in string Name, in eEcmgType EcmgType, in unsigned short CasId, in unsigned short SubCasId, in eEcmPidSource EcmPidSource, in unsigned short EcmPidLowerLimit, in unsigned short EcmPidUpperLimit, in eEcmgChannelIdMode EcmgChannelIdMode) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set ECMG proxy configuration settings.*

- void **DCM::DeviceControl::GetEcmgConfig** (in unsigned long EcmgId, out string Name, out eEcmgType EcmgType, out unsigned short CasId, out unsigned short SubCasId, out eEcmPidSource EcmPidSource, out unsigned short EcmPidLowerLimit, out unsigned short EcmPidUpperLimit, out eEcmgChannelIdMode EcmgChannelIdMode) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get ECMG proxy configuration settings.*

- void **DCM::DeviceControl::SetEcmgConfig\_V2** (in unsigned long EcmgId, in string Name, in eEcmgType\_V2 EcmgType, in unsigned short CasId, in unsigned short SubCasId, in eEcmPidSource EcmPidSource, in unsigned short EcmPidLowerLimit, in unsigned short EcmPidUpperLimit, in eEcmgChannelIdMode EcmgChannelIdMode) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set ECMG proxy configuration settings.*

- void **DCM::DeviceControl::GetEcmgConfig\_V2** (in unsigned long EcmgId, out string Name, out eEcmgType\_V2 EcmgType, out unsigned short CasId, out unsigned short SubCasId, out eEcmPidSource EcmPidSource, out unsigned short EcmPidLowerLimit, out unsigned short EcmPidUpperLimit, out eEcmgChannelIdMode EcmgChannelIdMode) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get ECMG proxy configuration settings.*

- void [DCM::DeviceControl::SetEcmgBackup](#) (in unsigned long EcmgId, in boolean BackupRevertive, in long RevertTime, in boolean HotStandby) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set ECMG backup settings (obsolete!).*

- void [DCM::DeviceControl::GetEcmgBackup](#) (in unsigned long EcmgId, out boolean BackupRevertive, out long RevertTime, out boolean HotStandby) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get ECMG backup settings (obsolete!).*

- void [DCM::DeviceControl::RevertNow](#) (in unsigned long EcmgId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

???

- void [DCM::DeviceControl::GetEcmgStatus](#) (in unsigned long EcmgId, out unsigned long NoOfRequestedStreams, out unsigned long NoOfOpenStreams) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of ECMG proxy.*

- void [DCM::DeviceControl::GetConnList](#) (in unsigned long EcmgId, out IdList ConnIds) raises (-Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get list of available connections (channels) for an ECMG proxy.*

- void [DCM::DeviceControl::GetEcmgConnList](#) (in unsigned long EcmgId, out IdList ConnIds) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get list of available connections (channels) for an ECMG proxy.*

- void [DCM::DeviceControl::CreateEcmgConn](#) (in unsigned long EcmgId, out unsigned long ConnId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create a new connection (channel) for an ECMG proxy.*

- void [DCM::DeviceControl::DeleteEcmgConn](#) (in unsigned long EcmgId, in unsigned long ConnId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete a connection (channel) for an ECMG proxy.*

- void [DCM::DeviceControl::SetEcmgConnConfig](#) (in unsigned long EcmgId, in unsigned long ConnId, in unsigned long IpAddress, in unsigned short Port, in unsigned short ChannelId, in long -Priority) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set connection (channel) configuration settings.*

- void [DCM::DeviceControl::GetEcmgConnConfig](#) (in unsigned long EcmgId, in unsigned long -ConnId, out unsigned long IpAddress, out unsigned short Port, out unsigned short ChannelId, out long Priority) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Get connection (channel) configuration settings.*

- void [DCM::DeviceControl::SetEcmgConnConfig\\_V2](#) (in unsigned long EcmgId, in unsigned long ConnId, in string IPAddress, in unsigned short Port, in unsigned short ChannelId, in long Priority) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set connection (channel) configuration settings.*

- void [DCM::DeviceControl::GetEcmgConnConfig\\_V2](#) (in unsigned long EcmgId, in unsigned long ConnId, out string IPAddress, out unsigned short Port, out unsigned short ChannelId, out long -Priority) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get connection (channel) configuration settings.*

- void [DCM::DeviceControl::GetEcmgConnStatus](#) (in unsigned long EcmgId, in unsigned long ConnId, out eEcmgConnectionStatus EcmgConnectionStatus, out unsigned short UsedChannelId, out unsigned short NoOfOpenStreams) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of connection (channel) in ECMG proxy.*

- void [DCM::DeviceControl::SetEcmgOverride](#) (in unsigned long EcmgId, in boolean OverrideMaxCompTime, in short MaxCompTime, in boolean OverrideMinimumCPDuration, in unsigned long MinimumCPDuration, in boolean OverrideTransitionStartDelay, in short TransitionStartDelay, in boolean OverrideTransitionStopDelay, in short TransitionStopDelay, in boolean OverrideStartDelay, in short StartDelay, in boolean OverrideStopDelay, in short StopDelay, in boolean OverrideAcStartDelay, in short AcStartDelay, in boolean OverrideAcStopDelay, in short AcStopDelay) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set ECMG proxy advanced settings (part 1).*

- void [DCM::DeviceControl::GetEcmgOverride](#) (in unsigned long EcmgId, out boolean OverrideMaxCompTime, out short MaxCompTime, out boolean OverrideMinimumCPDuration, out unsigned long MinimumCPDuration, out boolean OverrideTransitionStartDelay, out short TransitionStartDelay, out boolean OverrideTransitionStopDelay, out short TransitionStopDelay, out boolean OverrideStartDelay, out short StartDelay, out boolean OverrideStopDelay, out short StopDelay, out boolean OverrideAcStartDelay, out short AcStartDelay, out boolean OverrideAcStopDelay, out short AcStopDelay) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get ECMG proxy advanced settings (part 1).*

- void [DCM::DeviceControl::SetEcmgOverrideExt](#) (in unsigned long EcmgId, in boolean OverrideMaxStreams, in unsigned short MaxStreams, in boolean OverrideEcmRepPeriod, in unsigned short EcmRepPeriod) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set ECMG proxy advanced settings (part 2).*

- void [DCM::DeviceControl::GetEcmgOverrideExt](#) (in unsigned long EcmgId, out boolean OverrideMaxStreams, out unsigned short MaxStreams, out boolean OverrideEcmRepPeriod, out unsigned short EcmRepPeriod) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get ECMG proxy advanced settings (part 2).*

- void [DCM::DeviceControl::GetEcmgDescList](#) (in unsigned long EcmgId, out IdList DescRuleIds) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get list of available descriptor rules for ECMG proxy.*

- void [DCM::DeviceControl::CreateEcmgDescriptor](#) (in unsigned long EcmgId, out unsigned long DescRuleId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create a new descriptor rule for an ECMG proxy.*

- void [DCM::DeviceControl::DeleteEcmgDescriptor](#) (in unsigned long EcmgId, in unsigned long DescRuleId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete a descriptor rule for an ECMG proxy.*

- void [DCM::DeviceControl::SetEcmgDescriptor](#) (in unsigned long EcmgId, in unsigned long DescRuleId, in string DescRuleName, in eEcmgDescRuleType Type, in eDescInsertionLevel InsertionLevel, in string DescriptorData, in EcmIdList EcmIds) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set descriptor rule (on ECMG proxy) configuration settings.*

- void [DCM::DeviceControl::GetEcmgDescriptor](#) (in unsigned long EcmgId, in unsigned long DescRuleId, out string DescRuleName, out eEcmgDescRuleType Type, out eDescInsertionLevel InsertionLevel, out string DescriptorData, out EcmIdList EcmIds) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get descriptor rule (on ECMG proxy) configuration settings.*



- void [DCM::DeviceControl::SetEcmgDescriptor\\_V2](#) (in unsigned long EcmgId, in unsigned long - DescRuleId, in string DescRuleName, in eEcmgDescRuleType Type, in eDescInsertionLevel\_V2 InsertionLevel, in string DescriptorData, in EcmIdList EcmIds) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set descriptor rule (on ECMG proxy) configuration settings.*

- void [DCM::DeviceControl::GetEcmgDescriptor\\_V2](#) (in unsigned long EcmgId, in unsigned long DescRuleId, out string DescRuleName, out eEcmgDescRuleType Type, out eDescInsertionLevel\_V2 InsertionLevel, out string DescriptorData, out EcmIdList EcmIds) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get descriptor rule (on ECMG proxy) configuration settings.*

- void [DCM::DeviceControl::SetHotEcmgConnection](#) (in unsigned long EcmgId, in boolean bBackup-HotStandby) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set ECMG hot connection backup setting(override ECMG disconnection).*

- void [DCM::DeviceControl::GetHotEcmgConnection](#) (in unsigned long EcmgId, out boolean bBackup-HotStandby) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get ECMG hot connection backup setting(override ECMG disconnection).*

- void [DCM::DeviceControl::SetEcmgNotifyCPEExtension](#) (in unsigned long EcmgId, in boolean - NotifyCPEExtension) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set ECMG notify CP extension.*

- void [DCM::DeviceControl::GetEcmgNotifyCPEExtension](#) (in unsigned long EcmgId, out boolean - NotifyCPEExtension) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get ECMG notify CP extension.*

- void [DCM::DeviceControl::CreateEmmg](#) (out unsigned long EmmgId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create an EMMG proxy.*

- void [DCM::DeviceControl::DeleteEmmg](#) (in unsigned long EmmgId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete an EMMG proxy.*

- void [DCM::DeviceControl::SetEmmgConfig](#) (in unsigned long EmmgId, in string Name, in long ClientId, in eDataSocket DataSocket, in unsigned short TcpPort, in unsigned short UdpPort, in unsigned long MaxBandwidth, in eEmmPidSource EmmmPidSource, in unsigned short EmmmPidLowerLimit, in unsigned short EmmmPidUpperLimit, in eEmmSectionGrouping SectionGrouping) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set EMMG proxy configuration settings.*

- void [DCM::DeviceControl::GetEmmgConfig](#) (in unsigned long EmmgId, out string Name, out long ClientId, out eDataSocket DataSocket, out unsigned short TcpPort, out unsigned short UdpPort, out unsigned long MaxBandwidth, out eEmmPidSource EmmmPidSource, out unsigned short EmmmPidLowerLimit, out unsigned short EmmmPidUpperLimit, out eEmmSectionGrouping SectionGrouping) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get EMMG proxy configuration settings.*

- void [DCM::DeviceControl::GetEmmgStatus](#) (in unsigned long EmmgId, out eConnectionState - EmmgConnectionState, out unsigned long NoOfOpenStreams, out unsigned long CurrentBandwidth, out unsigned long ConnectionPeer) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Get status of EMMG proxy.*

- void [DCM::DeviceControl::GetEmmgStatus\\_V2](#) (in unsigned long EmmgId, out eConnectionState - EmmgConnectionState, out unsigned long NoOfOpenStreams, out unsigned long CurrentBandwidth, out string ConnectionPeer) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of EMMG proxy.*

- void [DCM::DeviceControl::GetEmmgDescList](#) (in unsigned long EmmgId, out IdList DescRuleIds) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get list of available descriptor rules for EMMG proxy.*

- void [DCM::DeviceControl::CreateEmmgDescriptor](#) (in unsigned long EmmgId, out unsigned long - DescRuleId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create a new descriptor rule for an EMMG proxy.*

- void [DCM::DeviceControl::DeleteEmmgDescriptor](#) (in unsigned long EmmgId, in unsigned long - DescRuleId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete a descriptor rule for an EMMG proxy.*

- void [DCM::DeviceControl::SetEmmgDescriptor](#) (in unsigned long EmmgId, in unsigned long DescRuleId, in string DescRuleName, in eEmmgDescRuleType Type, in string DescriptorData, in - DataIdList DataIds) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set descriptor rule (on EMMG proxy) configuration settings.*

- void [DCM::DeviceControl::GetEmmgDescriptor](#) (in unsigned long EmmgId, in unsigned long DescRuleId, out string DescRuleName, out eEmmgDescRuleType Type, out string DescriptorData, out DataIdList DataIds) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get descriptor rule (on EMMG proxy) configuration settings.*

- void [DCM::DeviceControl::CreateEis](#) (out unsigned long EisId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create an EIS proxy.*

- void [DCM::DeviceControl::DeleteEis](#) (in unsigned long EisId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete an EIS proxy.*

- void [DCM::DeviceControl::CreateMCryptEis](#) (out unsigned long EisId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create a MCrypt EIS proxy.*

- void [DCM::DeviceControl::DeleteMCryptEis](#) (in unsigned long EisId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete a MCrypt EIS proxy.*

- void [DCM::DeviceControl::SetEisConfig](#) (in unsigned long EisId, in string Name, in eEisType EisType, in unsigned short TcpPort, in boolean OverruleRecommendedCpDuration, in unsigned long RecommendedCpDuration) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set EIS proxy configuration settings.*

- void [DCM::DeviceControl::GetEisConfig](#) (in unsigned long EisId, out string Name, out eEisType EisType, out unsigned short TcpPort, out boolean OverruleRecommendedCpDuration, out unsigned long RecommendedCpDuration) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get EIS proxy configuration settings.*

- void [DCM::DeviceControl::GetEisStatus](#) (in unsigned long EisId, out eConnectionState EisConnectionState, out unsigned long ConnectionPeer) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Get status of EIS proxy.*

- void [DCM::DeviceControl::GetEisStatus\\_V2](#) (in unsigned long EISId, out eConnectionState EIS-ConnectionState, out string ConnectionPeer) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of EIS proxy.*

- void [DCM::DeviceControl::CreatePsig](#) (out unsigned long PsigId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create a PSIG proxy.*

- void [DCM::DeviceControl::DeletePsig](#) (in unsigned long PsigId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete a PSIG proxy.*

- void [DCM::DeviceControl::CreateMCryptPsig](#) (out unsigned long PsigId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create a MCrypt PSIG proxy.*

- void [DCM::DeviceControl::DeleteMCryptPsig](#) (in unsigned long PsigId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete a MCrypt PSIG proxy.*

- void [DCM::DeviceControl::SetPsigConfig](#) (in unsigned long PsigId, in string Name, in ePsigType PsigType, in unsigned short TcpPort, in unsigned long MaxBandwidth) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set PSIG proxy configuration settings.*

- void [DCM::DeviceControl::GetPsigConfig](#) (in unsigned long PsigId, out string Name, out ePsigType PsigType, out unsigned short TcpPort, out unsigned long MaxBandwidth) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Set PSIG proxy configuration settings.*

- void [DCM::DeviceControl::SetPsigConfig2](#) (in unsigned long PsigId, in string Name, in ePsigType PsigType, in unsigned short TcpPort, in unsigned long MaxBandwidth, in boolean DoNotModify) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set PSIG proxy configuration settings.*

- void [DCM::DeviceControl::GetPsigConfig2](#) (in unsigned long PsigId, out string Name, out ePsigType PsigType, out unsigned short TcpPort, out unsigned long MaxBandwidth, out boolean DoNotModify) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Set PSIG proxy configuration settings.*

- void [DCM::DeviceControl::SetPsigConfig3](#) (in unsigned long PsigId, in string Name, in ePsigType PsigType, in unsigned short TcpPort, in unsigned long MaxBandwidth, in boolean DoNotModify, in boolean AllowMultipleNITa) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set PSIG proxy configuration settings.*

- void [DCM::DeviceControl::GetPsigConfig3](#) (in unsigned long PsigId, out string Name, out ePsigType PsigType, out unsigned short TcpPort, out unsigned long MaxBandwidth, out boolean DoNotModify, out boolean MultipleNITa) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get PSIG proxy configuration settings.*

- void [DCM::DeviceControl::GetPsigStatus](#) (in unsigned long PsigId, out eConnectionState PsigConnectionState, out unsigned long NoOfStreams, out unsigned long CurrentBandwidth, out unsigned long -ConnectionPeer) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Get status of PSIG proxy.*

- void [DCM::DeviceControl::GetPsigStatus\\_V2](#) (in unsigned long PsigId, out eConnectionState Psig-ConnectionState, out unsigned long NoOfStreams, out unsigned long CurrentBandwidth, out string -ConnectionPeer) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of PSIG proxy.*

- void [DCM::DeviceControl::CreateCwg](#) (out unsigned long CwgId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create an CWG proxy.*

- void [DCM::DeviceControl::DeleteCwg](#) (in unsigned long CwgId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Delete an CWG proxy.*

- void [DCM::DeviceControl::SetCwgConfig](#) (in unsigned long CwgId, in string Name, in eCwgType Type, in unsigned short CasId, in unsigned short SubCasId, in eCwgChannelIdMode ChannelId-Mode) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, Out-OfRange)

*Set CWG proxy configuration settings.*

- void [DCM::DeviceControl::GetCwgConfig](#) (in unsigned long CwgId, out string Name, out eCwg-Type Type, out unsigned short CasId, out unsigned short SubCasId, out eCwgChannelIdMode -ChannelIdMode) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get CWG proxy configuration settings.*

- void [DCM::DeviceControl::GetCwgStatus](#) (in unsigned long CwgId, out unsigned long NoOfRequested-Streams, out unsigned long NoOfOpenStreams) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of CWG proxy.*

- void [DCM::DeviceControl::GetCwgConnList](#) (in unsigned long CwgId, out IdList ConnIds) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get list of available connections (channels) for an CWG proxy.*

- void [DCM::DeviceControl::CreateCwgConn](#) (in unsigned long CwgId, out unsigned long ConnId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create a new connection (channel) for an CWG proxy.*

- void [DCM::DeviceControl::DeleteCwgConn](#) (in unsigned long CwgId, in unsigned long ConnId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete a connection (channel) for an CWG proxy.*

- void [DCM::DeviceControl::SetCwgConnConfig](#) (in unsigned long CwgId, in unsigned long Conn-Id, in unsigned long IpAddress, in unsigned short Port, in unsigned short ChannelId, in long -Priority) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set connection (channel) configuration settings.*

- void [DCM::DeviceControl::GetCwgConnConfig](#) (in unsigned long CwgId, in unsigned long Conn-Id, out unsigned long IpAddress, out unsigned short Port, out unsigned short ChannelId, out long Priority) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Get connection (channel) configuration settings.*

- void [DCM::DeviceControl::SetCwgConnConfig\\_V2](#) (in unsigned long CwgId, in unsigned long -ConnId, in string IpAddress, in unsigned short Port, in unsigned short ChannelId, in long Priority) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set connection (channel) configuration settings.*

- void [DCM::DeviceControl::GetCwgConnConfig\\_V2](#) (in unsigned long CwgId, in unsigned long ConnId, out string IpAddress, out unsigned short Port, out unsigned short ChannelId, out long Priority) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get connection (channel) configuration settings.*

- void [DCM::DeviceControl::GetCwgConnStatus](#) (in unsigned long CwgId, in unsigned long ConnId, out eCwgConnectionStatus ConnectionStatus, out unsigned short UsedChannelId, out unsigned short NoOfOpenStreams) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of connection (channel) in CWG proxy.*

- void [DCM::DeviceControl::SetCwgOvrerrule](#) (in unsigned long CwgId, in boolean OvrerruleMaxCompTime, in short MaxCompTime, in boolean OvrerruleMaxStreams, in unsigned short MaxStreams) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set CWG proxy advanced settings.*

- void [DCM::DeviceControl::GetCwgOvrerrule](#) (in unsigned long CwgId, out boolean OvrerruleMaxCompTime, out short MaxCompTime, out boolean OvrerruleMaxStreams, out unsigned short MaxStreams) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get CWG proxy advanced settings.*

### 8.62.1 Detailed Description

This module contains types, enums and methods related to the scrambler.

### 8.62.2 Typedef Documentation

#### 8.62.2.1 typedef sequence<unsigned short> DCM::DeviceControl::DataIdList

list of DataId's

Definition at line 24855 of file DCM.idl.

#### 8.62.2.2 typedef sequence<unsigned short> DCM::DeviceControl::EcmIdList

list of EcmId's

Definition at line 24807 of file DCM.idl.

#### 8.62.2.3 typedef sequence<unsigned long> DCM::DeviceControl::IdList

list of ID's (for several purposes)

Definition at line 24714 of file DCM.idl.

### 8.62.3 Enumeration Type Documentation

#### 8.62.3.1 enum DCM::DeviceControl::eConnectionState

Enumerator:

*EmmWaitingForConnect* trying socket connect

*EmmWaitingForChannel* socket OK, trying channel connect

*EmmChannelOpen* channel OK

Definition at line 24841 of file DCM.idl.

**8.62.3.2 enum DCM::DeviceControl::eCwgChannelIdMode**

CWG channel\_id allocation.

**Version**

release 9.0

**Enumerator:**

*CwgChannelIdManual* use manual configured channel\_id  
*CwgChannelIdAuto* automatic allocate channel\_id (default value)

Definition at line 24900 of file DCM.idl.

**8.62.3.3 enum DCM::DeviceControl::eCwgConnectionStatus**

CWG connection status.

**Version**

release 9.0

**Enumerator:**

*CwgClosed* backup channel in cold standby  
*CwgTryingToConnect* hot standby, trying socket connect  
*CwgEstablishingChannel* socket ok, trying channel connect  
*CwgChannelOpen* channel ok

Definition at line 24911 of file DCM.idl.

**8.62.3.4 enum DCM::DeviceControl::eCwgType**

CWG proxy type.

**Version**

release 9.0

**Enumerator:**

*CwgType\_PowerVu* PowerVu CWG.  
*CwgType\_Reserved2*  
*CwgType\_Reserved3*

Definition at line 24888 of file DCM.idl.

**8.62.3.5 enum DCM::DeviceControl::eDataSocket**

Type of data for socket.

**Enumerator:**

*TCP* TCP protocol (default value)  
*UDP* UDP protocol.

Definition at line 24814 of file DCM.idl.

**8.62.3.6 enum DCM::DeviceControl::eDescInsertionLevel**

Insertion level of ECMG descriptor in PMT.

Enumerator:

*FollowScg* insert according SCG (default value)

*InsertAtESLevel* insert at ES level

Definition at line 24780 of file DCM.idl.

**8.62.3.7 enum DCM::DeviceControl::eDescInsertionLevel\_V2**

Insertion level of ECMG descriptor in PMT.

Version

release 8.1

Enumerator:

*FollowScg\_V2* insert according SCG (default value)

*InsertAtESLevel\_V2* insert at ES level

*InsertAtServiceLevel\_V2* insert at service level

*eDescInsertionLevel\_V2\_Reserved4* Reserved for future use.

*eDescInsertionLevel\_V2\_Reserved5* Reserved for future use.

*eDescInsertionLevel\_V2\_Reserved6* Reserved for future use.

Definition at line 24794 of file DCM.idl.

**8.62.3.8 enum DCM::DeviceControl::eEcmgChannelIdMode**

ECMG channel\_id allocation.

Enumerator:

*EcmgChannelIdManual* use manual configured channel\_id

*EcmgChannelIdAuto* automatic allocate channel\_id (default value)

Definition at line 24757 of file DCM.idl.

**8.62.3.9 enum DCM::DeviceControl::eEcmgConnectionStatus**

ECMG connection status.

Enumerator:

*EcmgClosed* backup channel in cold standby

*EcmgTryingToConnect* hot standby, trying socket connect

*EcmgEstablishingChannel* socket ok, trying channel connect

*EcmgChannelOpen* channel ok

Definition at line 24764 of file DCM.idl.

**8.62.3.10 enum DCM::DeviceControl::eEcmgDescRuleType**

Type of ECMG descriptor rule.

Enumerator:

*EcmgAddPrivateData* add private data to descriptor (default value)

*EcmgDoNotInsertDescriptor* do not insert descriptor (in PSIG imported table)

Definition at line 24773 of file DCM.idl.

**8.62.3.11 enum DCM::DeviceControl::eEcmgType**

ECMG type.

Enumerator:

*EcmgStandard* (default value)

*M\_Crypt* creates streams even if no ECMs are requested < overrules AC with fixed format: ON\_ID, TS\_ID, SID

*Nagra* overrules AC with fixed format: ECM\_ID

*Hitachi*

Definition at line 24721 of file DCM.idl.

**8.62.3.12 enum DCM::DeviceControl::eEcmgType\_V2**

ECMG type.

Version

release 8.9

Enumerator:

*EcmgType\_Standard* (default value)

*EcmgType\_M\_Crypt* creates streams even if no ECMs are requested < overrules AC with fixed format: ON\_ID, TS\_ID, SID

*EcmgType\_Nagra* overrules AC with fixed format: ECM\_ID

*EcmgType\_Hitachi*

*EcmgType\_PowerVu* PowerVu specific scrambling (external CWG...)

*EcmgType\_Reserved5* PowerKEY specific scrambling (add hint bit)

*EcmgType\_Reserved6* Reserved for future use.

*EcmgType\_Reserved7* Reserved for future use.

*EcmgType\_Reserved8* Reserved for future use.

Definition at line 24735 of file DCM.idl.



**8.62.3.13 enum DCM::DeviceControl::eEcmPidSource**

ECM pid source.

Enumerator:

- EcmId* use EcmId as pid for ECM
- EcmPidSourceAuto* automatic allocate pid for ECM (default value)

Definition at line 24750 of file DCM.idl.

**8.62.3.14 enum DCM::DeviceControl::eEisType**

EIS type.

Enumerator:

- SaEis* SA specific EIS (= ROSA SCTask) (default value)
- CaVendorEis* external CA vendor EIS

Definition at line 24862 of file DCM.idl.

**8.62.3.15 enum DCM::DeviceControl::eEmmgDescRuleType**

Type of EMMG descriptor rule.

Enumerator:

- EmmgAddPrivateData* add private data to descriptor (default value)
- EmmgDoNotInsertDescriptor* do not insert descriptor (in PSIG imported table?)

Definition at line 24849 of file DCM.idl.

**8.62.3.16 enum DCM::DeviceControl::eEmmPidSource**

EMM pid source.

Enumerator:

- StreamId* use StreamId as pid for EMM
- ChannelId* use ChannelId as pid for EMM
- DataId* use DataId as pid for EMM
- PacketId* use PacketId as pid for EMM
- EmmPidSourceAuto* automatic allocate pid for EMM (default value)

Definition at line 24821 of file DCM.idl.

**8.62.3.17 enum DCM::DeviceControl::eEmmSectionGrouping**

Enable/disable section grouping for EMM's.

Enumerator:

- NoGrouping* disable section grouping for EMM's
- Grouping* enable section grouping for EMM's

Definition at line 24833 of file DCM.idl.

## 8.62.4 Function Documentation

**8.62.4.1** void DCM::DeviceControl::CreateCwg ( out unsigned long *CwgId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Create an CWG proxy.

## Parameters

|     |              |                                     |
|-----|--------------|-------------------------------------|
| out | <i>CwgId</i> | proxy_id of newly created CWG proxy |
|-----|--------------|-------------------------------------|

## Exceptions

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | when out of proxy_id's                                                                                   |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

## Version

release 9.0

**8.62.4.2** void DCM::DeviceControl::CreateCwgConn ( in unsigned long *CwgId*, out unsigned long *ConnId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Create a new connection (channel) for an CWG proxy.

## Parameters

|     |               |                                               |
|-----|---------------|-----------------------------------------------|
| in  | <i>CwgId</i>  | proxy_id (range [0, 40[) of CWG proxy         |
| out | <i>ConnId</i> | conn_id of newly created connection (channel) |

## Exceptions

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid CwgId                                                                                  |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

## Version

release 9.0

**8.62.4.3** void DCM::DeviceControl::CreateEcmg ( out unsigned long *EcmgId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Create an ECMG proxy.

**Parameters**

|     |               |                                      |
|-----|---------------|--------------------------------------|
| out | <i>EcmgId</i> | proxy_id of newly created ECMG proxy |
|-----|---------------|--------------------------------------|

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | when out of proxy_id's                                                                                   |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.4** void DCM::DeviceControl::CreateEcmgConn ( in unsigned long *EcmgId*, out unsigned long *ConnId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Create a new connection (channel) for an ECMG proxy.

**Parameters**

|     |               |                                               |
|-----|---------------|-----------------------------------------------|
| in  | <i>EcmgId</i> | proxy_id (range [0, 40]) of ECMG proxy        |
| out | <i>ConnId</i> | conn_id of newly created connection (channel) |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 2.0

**8.62.4.5** void DCM::DeviceControl::CreateEcmgDescriptor ( in unsigned long *EcmgId*, out unsigned long *DescRuleId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Create a new descriptor rule for an ECMG proxy.

**Parameters**

|     |                   |                                               |
|-----|-------------------|-----------------------------------------------|
| in  | <i>EcmgId</i>     | proxy_id (range [0, 40]) of ECMG proxy        |
| out | <i>DescRuleId</i> | desc_rule_id of newly created descriptor rule |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 2.0

**8.62.4.6** void DCM::DeviceControl::CreateEis ( out unsigned long *EisId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Create an EIS proxy.

**Parameters**

|     |              |                                                     |
|-----|--------------|-----------------------------------------------------|
| out | <i>EisId</i> | proxy_id (range [0, 40[) of newly created EIS proxy |
|-----|--------------|-----------------------------------------------------|

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | when out of proxy_id's                                                                                   |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.7** void DCM::DeviceControl::CreateEmmg ( out unsigned long *EmmgId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Create an EMMG proxy.

**Parameters**

|     |               |                                      |
|-----|---------------|--------------------------------------|
| out | <i>EmmgId</i> | proxy_id of newly created EMMG proxy |
|-----|---------------|--------------------------------------|

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | when out of proxy_id's                                                                                   |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.8** void DCM::DeviceControl::CreateEmmgDescriptor ( in unsigned long *EmmgId*, out unsigned long *DescRuleId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Create a new descriptor rule for an EMMG proxy.

**Parameters**

|     |                   |                                               |
|-----|-------------------|-----------------------------------------------|
| in  | <i>EmmgId</i>     | proxy_id (range [0, 40[) of EMMG proxy        |
| out | <i>DescRuleId</i> | desc_rule_id of newly created descriptor rule |

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EmmgId                                                                                           |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.9** void DCM::DeviceControl::CreateMCryptEis ( out unsigned long *EisId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Create a MCrypt EIS proxy.

**Parameters**

|     |              |                                                            |
|-----|--------------|------------------------------------------------------------|
| out | <i>EisId</i> | proxy_id (range [0, 40[) of newly created MCrypt EIS proxy |
|-----|--------------|------------------------------------------------------------|

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | when out of proxy_id's                                                                                   |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**Deprecated** This call should not be used (replace by call CreateEis)

**8.62.4.10** void DCM::DeviceControl::CreateMCryptPsig ( out unsigned long *PsigId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Create a MCrypt PSIG proxy.

#### Parameters

|     |               |                                                             |
|-----|---------------|-------------------------------------------------------------|
| out | <i>PsigId</i> | proxy_id (range [0, 40]) of newly created MCrypt PSIG proxy |
|-----|---------------|-------------------------------------------------------------|

#### Exceptions

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | when out of proxy_id's                                                                                   |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

#### Version

release 2.0

**Deprecated** This call should not be used (replace by call CreatePsig)

**8.62.4.11** void DCM::DeviceControl::CreatePsig ( out unsigned long *PsigId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Create a PSIG proxy.

#### Parameters

|     |               |                                                      |
|-----|---------------|------------------------------------------------------|
| out | <i>PsigId</i> | proxy_id (range [0, 40]) of newly created PSIG proxy |
|-----|---------------|------------------------------------------------------|

#### Exceptions

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | when out of proxy_id's                                                                                   |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

#### Version

release 2.0

**8.62.4.12** void DCM::DeviceControl::DeleteCwg ( in unsigned long *CwgId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Delete an CWG proxy.

**Parameters**

|    |              |                                                 |
|----|--------------|-------------------------------------------------|
| in | <i>CwgId</i> | proxy_id (range [0, 40]) of CWG proxy to delete |
|----|--------------|-------------------------------------------------|

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid CwgId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 9.0

**8.62.4.13** void DCM::DeviceControl::DeleteCwgConn ( in unsigned long *CwgId*, in unsigned long *ConnId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Delete a connection (channel) for an CWG proxy.

**Parameters**

|    |               |                                           |
|----|---------------|-------------------------------------------|
| in | <i>CwgId</i>  | proxy_id (range [0, 40]) of CWG proxy     |
| in | <i>ConnId</i> | conn_id of connection (channel) to delete |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid CwgId, ConnId                                                                          |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 9.0

**8.62.4.14** void DCM::DeviceControl::DeleteEcmg ( in unsigned long *EcmgId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Delete an ECMG proxy.

**Parameters**

|    |               |                                                  |
|----|---------------|--------------------------------------------------|
| in | <i>EcmgId</i> | proxy_id (range [0, 40]) of ECMG proxy to delete |
|----|---------------|--------------------------------------------------|

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                           |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.15** void DCM::DeviceControl::DeleteEcmgConn ( in unsigned long *EcmgId*, in unsigned long *ConnId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Delete a connection (channel) for an ECMG proxy.

**Parameters**

|    |               |                                           |
|----|---------------|-------------------------------------------|
| in | <i>EcmgId</i> | proxy_id (range [0, 40[) of ECMG proxy    |
| in | <i>ConnId</i> | conn_id of connection (channel) to delete |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId, ConnId                                                                         |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 2.0

**8.62.4.16** void DCM::DeviceControl::DeleteEcmgDescriptor ( in unsigned long *EcmgId*, in unsigned long *DescRuleId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Delete a descriptor rule for an ECMG proxy.

**Parameters**

|    |                   |                                           |
|----|-------------------|-------------------------------------------|
| in | <i>EcmgId</i>     | proxy_id (range [0, 40[) of ECMG proxy    |
| in | <i>DescRuleId</i> | desc_rule_id of descriptor rule to delete |

**Exceptions**

|                         |                                           |
|-------------------------|-------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing |
| <i>OpNotSucceeded</i>   | internal error only                       |
| <i>InvalidSelection</i> | invalid EcmgId, DescRuleId                |



|                       |                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------|
| <i>OpNotAllowed</i>   | not logged on                                                                                  |
| <i>OpNotSupported</i> | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 2.0

**8.62.4.17** void DCM::DeviceControl::DeleteEis ( in unsigned long *EisId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Delete an EIS proxy.

**Parameters**

|    |              |                                                 |
|----|--------------|-------------------------------------------------|
| in | <i>EisId</i> | proxy_id (range [0, 40[) of EIS proxy to delete |
|----|--------------|-------------------------------------------------|

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.18** void DCM::DeviceControl::DeleteEmmg ( in unsigned long *EmmgId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Delete an EMMG proxy.

**Parameters**

|    |               |                                                  |
|----|---------------|--------------------------------------------------|
| in | <i>EmmgId</i> | proxy_id (range [0, 40[) of EMMG proxy to delete |
|----|---------------|--------------------------------------------------|

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EmmgId                                                                                           |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.19** void DCM::DeviceControl::DeleteEmmgDescriptor ( in unsigned long *EmmgId*, in unsigned long *DescRuleId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Delete a descriptor rule for an EMMG proxy.

**Parameters**

|    |                   |                                           |
|----|-------------------|-------------------------------------------|
| in | <i>EmmgId</i>     | proxy_id (range [0, 40]) of EMMG proxy    |
| in | <i>DescRuleId</i> | desc_rule_id of descriptor rule to delete |

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EmmgId, DescRuleId                                                                               |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.20** void DCM::DeviceControl::DeleteMCryptEis ( in unsigned long *EisId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Delete a MCrypt EIS proxy.

**Parameters**

|    |              |                                                        |
|----|--------------|--------------------------------------------------------|
| in | <i>EisId</i> | proxy_id (range [0, 40]) of MCrypt EIS proxy to delete |
|----|--------------|--------------------------------------------------------|

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**Deprecated** This call should not be used (replace by call DeleteEis)

**8.62.4.21** void DCM::DeviceControl::DeleteMCryptPsig ( in unsigned long *PsigId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Delete a MCrypt PSIG proxy.

#### Parameters

|    |               |                                                         |
|----|---------------|---------------------------------------------------------|
| in | <i>PsigId</i> | proxy_id (range [0, 40]) of MCrypt PSIG proxy to delete |
|----|---------------|---------------------------------------------------------|

#### Exceptions

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

#### Version

release 2.0

**Deprecated** This call should not be used (replace by call DeletePsig)

**8.62.4.22** void DCM::DeviceControl::DeletePsig ( in unsigned long *PsigId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Delete a PSIG proxy.

#### Parameters

|    |               |                                                  |
|----|---------------|--------------------------------------------------|
| in | <i>PsigId</i> | proxy_id (range [0, 40]) of PSIG proxy to delete |
|----|---------------|--------------------------------------------------|

#### Exceptions

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

#### Version

release 2.0

**8.62.4.23** void DCM::DeviceControl::GetClearStrongPairingEnforceBit ( out boolean *bClearStrongPairingEnforcementBit* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get strong pairing enforcement bit clear flag (NDS specific).

**Parameters**

|     |                                            |                                            |
|-----|--------------------------------------------|--------------------------------------------|
| out | <i>bClearStrong-Pairing-EnforcementBit</i> | indicate whether to clear bit in CW or not |
|-----|--------------------------------------------|--------------------------------------------|

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i> | internal error                                                                                           |
| <i>OpNotAllowed</i>   | not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 5.5

**8.62.4.24** void DCM::DeviceControl::GetConnList ( in unsigned long *EcmgId*, out IdList *ConnIds* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get list of available connections (channels) for an ECMG proxy.

**Parameters**

|     |                |                                          |
|-----|----------------|------------------------------------------|
| in  | <i>EcmgId</i>  | proxy_id (range [0, 40]) of ECMG proxy   |
| out | <i>ConnIds</i> | list of configured connections (conn_id) |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 2.0

**Deprecated** This call should not be used anymore since release 8.9 (replaced by call GetEcmgConnList)

**8.62.4.25** void DCM::DeviceControl::GetCwgConfig ( in unsigned long *CwgId*, out string *Name*, out eCwgType *Type*, out unsigned short *CasId*, out unsigned short *SubCasId*, out eCwgChannelIdMode *ChannelIdMode* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get CWG proxy configuration settings.

**Parameters**

|     |                       |                                       |
|-----|-----------------------|---------------------------------------|
| in  | <i>CwgId</i>          | proxy_id (range [0, 40]) of CWG proxy |
| out | <i>Name</i>           | name of CWG proxy                     |
| out | <i>Type</i>           | type of CWG proxy                     |
| out | <i>CasId</i>          | CA_system_id of CWG                   |
| out | <i>SubCasId</i>       | CA_subsystem_id of CWG                |
| out | <i>ChannelId-Mode</i> | CWG channel_id selection mode         |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error                                                                                 |
| <i>InvalidSelection</i> | invalid CwgId                                                                                  |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 9.0

**8.62.4.26** void DCM::DeviceControl::GetCwgConnConfig ( in unsigned long *CwgId*, in unsigned long *ConnId*, out unsigned long *IpAddress*, out unsigned short *Port*, out unsigned short *ChannelId*, out long *Priority* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Get connection (channel) configuration settings.

**Parameters**

|     |                  |                                                        |
|-----|------------------|--------------------------------------------------------|
| in  | <i>CwgId</i>     | proxy_id (range [0, 40]) of CWG proxy                  |
| in  | <i>ConnId</i>    | conn_id of connection (channel)                        |
| out | <i>IpAddress</i> | IP address of CWG to connect with                      |
| out | <i>Port</i>      | port on CWG to establish connection on                 |
| out | <i>ChannelId</i> | channel_id to be used (for manual mode)                |
| out | <i>Priority</i>  | priority of connection (for backup and load balancing) |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid CwgId, ConnId                                                                          |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid (e.g. IPv6 address configured)                                         |

**Version**

release 9.0

**Deprecated** This call should not be used anymore since release 10.10 (replaced by call GetCwgConnConfig\_V2)

**8.62.4.27** void DCM::DeviceControl::GetCwgConnConfig\_V2 ( in unsigned long *CwgId*, in unsigned long *ConnId*, out string *IpAddress*, out unsigned short *Port*, out unsigned short *ChannelId*, out long *Priority* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get connection (channel) configuration settings.

#### Parameters

|     |                  |                                                        |
|-----|------------------|--------------------------------------------------------|
| in  | <i>CwgId</i>     | proxy_id (range [0, 40]) of CWG proxy                  |
| in  | <i>ConnId</i>    | conn_id of connection (channel)                        |
| out | <i>IpAddress</i> | IP address of CWG to connect with                      |
| out | <i>Port</i>      | port on CWG to establish connection on                 |
| out | <i>ChannelId</i> | channel_id to be used (for manual mode)                |
| out | <i>Priority</i>  | priority of connection (for backup and load balancing) |

#### Exceptions

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid CwgId, ConnId                                                                          |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

#### Version

release 10.10

**8.62.4.28** void DCM::DeviceControl::GetCwgConnList ( in unsigned long *CwgId*, out IdList *ConnIds* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get list of available connections (channels) for an CWG proxy.

#### Parameters

|     |                |                                          |
|-----|----------------|------------------------------------------|
| in  | <i>CwgId</i>   | proxy_id (range [0, 40]) of CWG proxy    |
| out | <i>ConnIds</i> | list of configured connections (conn_id) |

#### Exceptions

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid CwgId                                                                                  |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 9.0

**8.62.4.29** void DCM::DeviceControl::GetCwgConnStatus ( in unsigned long *CwgId*, in unsigned long *ConnId*, out eCwgConnectionStatus *ConnectionStatus*, out unsigned short *UsedChannelId*, out unsigned short *NoOfOpenStreams* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get status of connection (channel) in CWG proxy.

**Parameters**

|     |                          |                                                |
|-----|--------------------------|------------------------------------------------|
| in  | <i>CwgId</i>             | proxy_id (range [0, 40]) of CWG proxy          |
| in  | <i>ConnId</i>            | conn_id of connection (channel)                |
| out | <i>Connection-Status</i> | status of connection                           |
| out | <i>UsedChannelId</i>     | channel_id used for connection                 |
| out | <i>NoOfOpen-Streams</i>  | number of open streams on connection (channel) |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid CwgId, ConnId                                                                          |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 9.0

**8.62.4.30** void DCM::DeviceControl::GetCwgOverrule ( in unsigned long *CwgId*, out boolean *OverruleMaxCompTime*, out short *MaxCompTime*, out boolean *OverruleMaxStreams*, out unsigned short *MaxStreams* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get CWG proxy advanced settings.

**Parameters**

|     |                             |                                           |
|-----|-----------------------------|-------------------------------------------|
| in  | <i>CwgId</i>                | proxy_id (range [0, 40]) of CWG proxy     |
| out | <i>OverruleMax-CompTime</i> | flag to overrule max_comp_time            |
| out | <i>MaxCompTime</i>          | overruled value for max_comp_time (in ms) |
| out | <i>OverruleMax-Streams</i>  | flag to overrule max_streams              |
| out | <i>MaxStreams</i>           | overruled value for max_streams           |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid CwgId                                                                                  |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 9.0

**8.62.4.31** void DCM::DeviceControl::GetCwgStatus ( in unsigned long *CwgId*, out unsigned long *NoOfRequestedStreams*, out unsigned long *NoOfOpenStreams* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get status of CWG proxy.

**Parameters**

|     |                             |                                                           |
|-----|-----------------------------|-----------------------------------------------------------|
| in  | <i>CwgId</i>                | proxy_id (range [0, 40[) of CWG proxy                     |
| out | <i>NoOfRequestedStreams</i> | total number of requested streams on proxy (all channels) |
| out | <i>NoOfOpenStreams</i>      | total number of open streams on proxy (all channels)      |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid CwgId                                                                                  |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 9.0

**8.62.4.32** void DCM::DeviceControl::GetEcmgBackup ( in unsigned long *EcmgId*, out boolean *BackupRevertive*, out long *RevertTime*, out boolean *HotStandby* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get ECMG backup settings (obsolete!).

**Parameters**

|     |                        |                                        |
|-----|------------------------|----------------------------------------|
| in  | <i>EcmgId</i>          | proxy_id (range [0, 40[) of ECMG proxy |
| out | <i>BackupRevertive</i> | ???                                    |
| out | <i>RevertTime</i>      | ??? (in sec)                           |
| out | <i>HotStandby</i>      | ???                                    |



**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error                                                                                 |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 2.0

**Deprecated** This call should not be used on [DCM](#).

**8.62.4.33** void DCM::DeviceControl::GetEcmgConfig ( in unsigned long *EcmgId*, out string *Name*, out eEcmgType *EcmgType*, out unsigned short *CasId*, out unsigned short *SubCasId*, out eEcmPidSource *EcmPidSource*, out unsigned short *EcmPidLowerLimit*, out unsigned short *EcmPidUpperLimit*, out eEcmgChannelIdMode *EcmgChannelIdMode* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get ECMG proxy configuration settings.

**Parameters**

|     |                          |                                                   |
|-----|--------------------------|---------------------------------------------------|
| in  | <i>EcmgId</i>            | proxy_id (range [0, 40]) of ECMG proxy            |
| out | <i>Name</i>              | name of ECMG proxy                                |
| out | <i>EcmgType</i>          | type of ECMG proxy                                |
| out | <i>CasId</i>             | CA_system_id of ECMG                              |
| out | <i>SubCasId</i>          | CA_subsystem_id of ECMG                           |
| out | <i>EcmPidSource</i>      | ECM pid source                                    |
| out | <i>EcmPidLowerLimit</i>  | lower limit for ECM pid selection (for auto mode) |
| out | <i>EcmPidUpperLimit</i>  | upper limit for ECM pid selection (for auto mode) |
| out | <i>EcmgChannelIdMode</i> | ECMG channel_id selection mode                    |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error                                                                                 |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 2.0

**Deprecated** This call should not be used anymore since release 8.9 (replaced by call GetEcmgConfig\_V2)

**8.62.4.34** void DCM::DeviceControl::GetEcmgConfig\_V2 ( in unsigned long *EcmgId*, out string *Name*, out eEcmgType\_V2 *EcmgType*, out unsigned short *CasId*, out unsigned short *SubCasId*, out eEcmPidSource *EcmPidSource*, out unsigned short *EcmPidLowerLimit*, out unsigned short *EcmPidUpperLimit*, out eEcmgChannelIdMode *EcmgChannelIdMode* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get ECMG proxy configuration settings.

#### Parameters

|     |                          |                                                   |
|-----|--------------------------|---------------------------------------------------|
| in  | <i>EcmgId</i>            | proxy_id (range [0, 40[) of ECMG proxy            |
| out | <i>Name</i>              | name of ECMG proxy                                |
| out | <i>EcmgType</i>          | type of ECMG proxy                                |
| out | <i>CasId</i>             | CA_system_id of ECMG                              |
| out | <i>SubCasId</i>          | CA_subsystem_id of ECMG                           |
| out | <i>EcmPidSource</i>      | ECM pid source                                    |
| out | <i>EcmPidLowerLimit</i>  | lower limit for ECM pid selection (for auto mode) |
| out | <i>EcmPidUpperLimit</i>  | upper limit for ECM pid selection (for auto mode) |
| out | <i>EcmgChannelIdMode</i> | ECMG channel_id selection mode                    |

#### Exceptions

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error                                                                                 |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

#### Version

release 8.9 - PowerVu type behaves as Standard ECMG  
release 9.0

**8.62.4.35** void DCM::DeviceControl::GetEcmgConnConfig ( in unsigned long *EcmgId*, in unsigned long *ConnId*, out unsigned long *IpAddress*, out unsigned short *Port*, out unsigned short *ChannelId*, out long *Priority* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Get connection (channel) configuration settings.

#### Parameters

|     |                  |                                                        |
|-----|------------------|--------------------------------------------------------|
| in  | <i>EcmgId</i>    | proxy_id (range [0, 40[) of ECMG proxy                 |
| in  | <i>ConnId</i>    | conn_id of connection (channel)                        |
| out | <i>IpAddress</i> | IP address of ECMG to connect with                     |
| out | <i>Port</i>      | port on ECMG to establish connection on                |
| out | <i>ChannelId</i> | channel_id to be used (for manual mode)                |
| out | <i>Priority</i>  | priority of connection (for backup and load balancing) |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId, ConnId                                                                         |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid (e.g. IPv6 address configured)                                         |

**Version**

release 2.0

**Deprecated** This call should not be used anymore since release 10.10 (replaced by call GetEcmgConnConfig\_V2)

**8.62.4.36** void DCM::DeviceControl::GetEcmgConnConfig\_V2 ( in unsigned long *EcmgId*, in unsigned long *ConnId*, out string *IPAddress*, out unsigned short *Port*, out unsigned short *ChannelId*, out long *Priority* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get connection (channel) configuration settings.

**Parameters**

|     |                  |                                                        |
|-----|------------------|--------------------------------------------------------|
| in  | <i>EcmgId</i>    | proxy_id (range [0, 40]) of ECMG proxy                 |
| in  | <i>ConnId</i>    | conn_id of connection (channel)                        |
| out | <i>IPAddress</i> | IP address of ECMG to connect with                     |
| out | <i>Port</i>      | port on ECMG to establish connection on                |
| out | <i>ChannelId</i> | channel_id to be used (for manual mode)                |
| out | <i>Priority</i>  | priority of connection (for backup and load balancing) |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId, ConnId                                                                         |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 10.10

**8.62.4.37** void DCM::DeviceControl::GetEcmgConnList ( in unsigned long *EcmgId*, out IdList *ConnIds* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get list of available connections (channels) for an ECMG proxy.

**Parameters**

|     |                |                                          |
|-----|----------------|------------------------------------------|
| in  | <i>EcmgId</i>  | proxy_id (range [0, 40]) of ECMG proxy   |
| out | <i>ConnIds</i> | list of configured connections (conn_id) |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 8.9

**8.62.4.38** void DCM::DeviceControl::GetEcmgConnStatus ( in unsigned long *EcmgId*, in unsigned long *ConnId*, out eEcmgConnectionStatus *EcmgConnectionStatus*, out unsigned short *UsedChannelId*, out unsigned short *NoOfOpenStreams* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get status of connection (channel) in ECMG proxy.

**Parameters**

|     |                               |                                                |
|-----|-------------------------------|------------------------------------------------|
| in  | <i>EcmgId</i>                 | proxy_id (range [0, 40]) of ECMG proxy         |
| in  | <i>ConnId</i>                 | conn_id of connection (channel)                |
| out | <i>Ecmg-Connection-Status</i> | status of connection                           |
| out | <i>UsedChannelId</i>          | channel_id used for connection                 |
| out | <i>NoOfOpen-Streams</i>       | number of open streams on connection (channel) |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId, ConnId                                                                         |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 2.0

**8.62.4.39** void DCM::DeviceControl::GetEcmgDescList ( in unsigned long *EcmgId*, out IdList *DescRuleIds* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get list of available descriptor rules for ECMG proxy.

**Parameters**

|     |                    |                                                    |
|-----|--------------------|----------------------------------------------------|
| in  | <i>EcmgId</i>      | proxy_id (range [0, 40]) of ECMG proxy             |
| out | <i>DescRuleIds</i> | list of configured descriptor rules (desc_rule_id) |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 2.0

**8.62.4.40** void DCM::DeviceControl::GetEcmgDescriptor ( in unsigned long *EcmgId*, in unsigned long *DescRuleId*, out string *DescRuleName*, out eEcmgDescRuleType *Type*, out eDescInsertionLevel *InsertionLevel*, out string *DescriptorData*, out EcmIdList *EcmlDs* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get descriptor rule (on ECMG proxy) configuration settings.

**Parameters**

|     |                       |                                                                 |
|-----|-----------------------|-----------------------------------------------------------------|
| in  | <i>EcmgId</i>         | proxy_id (range [0, 40]) of ECMG proxy                          |
| in  | <i>DescRuleId</i>     | desc_rule_id of descriptor rule                                 |
| out | <i>DescRuleName</i>   | name of descriptor rule                                         |
| out | <i>Type</i>           | type of descriptor rule ('add private data' or 'do not insert') |
| out | <i>InsertionLevel</i> | insertion level of descriptor                                   |
| out | <i>DescriptorData</i> | extra (private) data to append to descriptor                    |
| out | <i>EcmlDs</i>         | list of EcmId's where descriptor rule applies to                |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId, DescRuleId                                                                     |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Remarks**

descriptor string format: hex byte array possible future extentions:

- EcmPid: inserts 13 bit ECM pid (preceeded by hex nibble E of which one bit is overwritten)
- EcmId: inserts 16 bits EcmId
- CasId: inserts 16 bits CasId

**Version**

release 2.0

**Deprecated** This call should not be used anymore since release 8.1 (replaced by call GetEcmgDescriptor\_V2)

**8.62.4.41** void DCM::DeviceControl::GetEcmgDescriptor\_V2 ( in unsigned long *EcmgId*, in unsigned long *DescRuleId*, out string *DescRuleName*, out eEcmgDescRuleType *Type*, out eDescInsertionLevel\_V2 *InsertionLevel*, out string *DescriptorData*, out EcmIdList *EcmIds* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get descriptor rule (on ECMG proxy) configuration settings.

**Parameters**

|     |                       |                                                                 |
|-----|-----------------------|-----------------------------------------------------------------|
| in  | <i>EcmgId</i>         | proxy_id (range [0, 40]) of ECMG proxy                          |
| in  | <i>DescRuleId</i>     | desc_rule_id of descriptor rule                                 |
| out | <i>DescRuleName</i>   | name of descriptor rule                                         |
| out | <i>Type</i>           | type of descriptor rule ('add private date' or 'do not insert') |
| out | <i>InsertionLevel</i> | insertion level of descriptor                                   |
| out | <i>DescriptorData</i> | extra (private) data to append to descriptor                    |
| out | <i>EcmIds</i>         | list of EcmId's where descriptor rule applies to                |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId, DescRuleId                                                                     |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Remarks**

descriptor string format: hex byte array possible future extentions:

- EcmPid: inserts 13 bit ECM pid (preceeded by hex nibble E of which one bit is overwritten)
- EcmId: inserts 16 bits EcmId
- CasId: inserts 16 bits CasId

**Version**

release 8.1

**8.62.4.42** void DCM::DeviceControl::GetEcmgNotifyCPExtension ( in unsigned long *EcmgId*, out boolean *NotifyCPExtension* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get ECMG notify CP extension.

#### Parameters

|     |                          |                                                                    |
|-----|--------------------------|--------------------------------------------------------------------|
| in  | <i>EcmgId</i>            | proxy_id (range [0, 40[) of ECMG proxy                             |
| out | <i>NotifyCPExtension</i> | enable/disable CP extension notification (range [0, 1], default 0) |

#### Exceptions

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

#### Version

release 8.9

**8.62.4.43** void DCM::DeviceControl::GetEcmgOverrule ( in unsigned long *EcmgId*, out boolean *OverruleMaxCompTime*, out short *MaxCompTime*, out boolean *OverruleMinimumCPDuration*, out unsigned long *MinimumCPDuration*, out boolean *OverruleTransitionStartDelay*, out short *TransitionStartDelay*, out boolean *OverruleTransitionStopDelay*, out short *TransitionStopDelay*, out boolean *OverruleStartDelay*, out short *StartDelay*, out boolean *OverruleStopDelay*, out short *StopDelay*, out boolean *OverruleAcStartDelay*, out short *AcStartDelay*, out boolean *OverruleAcStopDelay*, out short *AcStopDelay* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get ECMG proxy advanced settings (part 1).

#### Parameters

|     |                                     |                                                    |
|-----|-------------------------------------|----------------------------------------------------|
| in  | <i>EcmgId</i>                       | proxy_id (range [0, 40[) of ECMG proxy             |
| out | <i>OverruleMaxCompTime</i>          | flag to overrule max_comp_time                     |
| out | <i>MaxCompTime</i>                  | overruled value for max_comp_time (in ms)          |
| out | <i>OverruleMinimumCPDuration</i>    | flag to overrule min_CP_duration                   |
| out | <i>MinimumCPDuration</i>            | overruled value for min_CP_duration (in ms)        |
| out | <i>OverruleTransitionStartDelay</i> | flag to overrule transition_delay_start            |
| out | <i>TransitionStartDelay</i>         | overruled value for transition_delay_start (in ms) |

|     |                                    |                                                    |
|-----|------------------------------------|----------------------------------------------------|
| out | <i>OverrideTransitionStopDelay</i> | flag to override transition_delay_stop             |
| out | <i>TransitionStopDelay</i>         | overruled value for taransition_delay_stop (in ms) |
| out | <i>OverrideStartDelay</i>          | flag to override delay_start                       |
| out | <i>StartDelay</i>                  | overruled value for delay_start (in ms)            |
| out | <i>OverrideStopDelay</i>           | flag to override dalay_stop                        |
| out | <i>StopDelay</i>                   | overruled value for delay_stop (in ms)             |
| out | <i>OverrideAcStartDelay</i>        | flag to override AC_delay_start                    |
| out | <i>AcStartDelay</i>                | overruled value for AC_delay_start (in ms)         |
| out | <i>OverrideAcStopDelay</i>         | flag to override AC_delay_stop                     |
| out | <i>AcStopDelay</i>                 | overruled value for AC_delay_stop (in ms)          |

### Exceptions

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

### Version

release 2.0

**8.62.4.44** void DCM::DeviceControl::GetEcmgOverrideExt ( in unsigned long *EcmgId*, out boolean *OverrideMaxStreams*, out unsigned short *MaxStreams*, out boolean *OverrideEcmRepPeriod*, out unsigned short *EcmRepPeriod* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get ECMG proxy advanced settings (part 2).

### Parameters

|     |                             |                                            |
|-----|-----------------------------|--------------------------------------------|
| in  | <i>EcmgId</i>               | proxy_id (range [0, 40]) of ECMG proxy     |
| out | <i>OverrideMaxStreams</i>   | flag to override max_streams               |
| out | <i>MaxStreams</i>           | overruled value for max_streams            |
| out | <i>OverrideEcmRepPeriod</i> | flag to override ECM_rep_period            |
| out | <i>EcmRepPeriod</i>         | overruled value for ECM_rep_period (in ms) |



**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 2.0

**8.62.4.45** void DCM::DeviceControl::GetEcmgStatus ( in unsigned long *EcmgId*, out unsigned long *NoOfRequestedStreams*, out unsigned long *NoOfOpenStreams* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get status of ECMG proxy.

**Parameters**

|     |                             |                                                           |
|-----|-----------------------------|-----------------------------------------------------------|
| in  | <i>EcmgId</i>               | proxy_id (range [0, 40[) of ECMG proxy                    |
| out | <i>NoOfRequestedStreams</i> | total number of requested streams on proxy (all channels) |
| out | <i>NoOfOpenStreams</i>      | total number of open streams on proxy (all channels)      |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Version**

release 2.0

**8.62.4.46** void DCM::DeviceControl::GetEisConfig ( in unsigned long *EisId*, out string *Name*, out eEisType *EisType*, out unsigned short *TcpPort*, out boolean *OverrideRecommendedCpDuration*, out unsigned long *RecommendedCpDuration* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get EIS proxy configuration settings.

**Parameters**

|     |                |                                       |
|-----|----------------|---------------------------------------|
| in  | <i>EisId</i>   | proxy_id (range [0, 40[) of EIS proxy |
| out | <i>Name</i>    | name of EIS proxy                     |
| out | <i>EisType</i> | type of EIS proxy                     |

|     |                                        |                                                     |
|-----|----------------------------------------|-----------------------------------------------------|
| out | <i>TcpPort</i>                         | TCP port where to listen for EIS                    |
| out | <i>Override-Recommended-CpDuration</i> | flag to override recommended_CP_duration            |
| out | <i>Recommended-CpDuration</i>          | overruled value for recommended_CP_duration (in ms) |

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.47** void DCM::DeviceControl::GetEisStatus ( in unsigned long *EisId*, out eConnectionState *EisConnectionState*, out unsigned long *ConnectionPeer* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Get status of EIS proxy.

**Parameters**

|     |                            |                                       |
|-----|----------------------------|---------------------------------------|
| in  | <i>EisId</i>               | proxy_id (range [0, 40[) of EIS proxy |
| out | <i>EisConnection-State</i> | status of connection                  |
| out | <i>Connection-Peer</i>     | IP address of connected EIS           |

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid (e.g. peer has IPv6 address)                                                     |

**Version**

release 2.0

**Deprecated** This call should not be used anymore since release 10.10 (replaced by call GetEisStatus\_V2)

**8.62.4.48** void DCM::DeviceControl::GetEisStatus\_V2 ( in unsigned long *EisId*, out eConnectionState *EisConnectionState*, out string *ConnectionPeer* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get status of EIS proxy.

#### Parameters

|     |                            |                                       |
|-----|----------------------------|---------------------------------------|
| in  | <i>EisId</i>               | proxy_id (range [0, 40[) of EIS proxy |
| out | <i>EisConnection-State</i> | status of connection                  |
| out | <i>Connection-Peer</i>     | IP address of connected EIS           |

#### Exceptions

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

#### Version

release 10.10

**8.62.4.49** void DCM::DeviceControl::GetEmmgConfig ( in unsigned long *EmmgId*, out string *Name*, out long *ClientId*, out eDataSocket *DataSocket*, out unsigned short *TcpPort*, out unsigned short *UdpPort*, out unsigned long *MaxBandwidth*, out eEmmPidSource *EmmPidSource*, out unsigned short *EmmPidLowerLimit*, out unsigned short *EmmPidUpperLimit*, out eEmmSectionGrouping *SectionGrouping* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get EMMG proxy configuration settings.

#### Parameters

|     |                          |                                                                    |
|-----|--------------------------|--------------------------------------------------------------------|
| in  | <i>EmmgId</i>            | proxy_id (range [0, 40[) of EMMG proxy                             |
| out | <i>Name</i>              | name of EMMG proxy                                                 |
| out | <i>ClientId</i>          | client_id of EMMG                                                  |
| out | <i>DataSocket</i>        | type of data for socket (TCP or UDP)                               |
| out | <i>TcpPort</i>           | TCP port where to listen for EMMG                                  |
| out | <i>UdpPort</i>           | UDP port where to listen for EMMG                                  |
| out | <i>MaxBandwidth</i>      | maximum bandwidth to be used for EMM (in bps)                      |
| out | <i>EmmPidSource</i>      | EMM pid source (stream_id, channel_id, data_id, packet_id or auto) |
| out | <i>EmmPidLower-Limit</i> | lower limit for EMM pid selection (for auto mode)                  |
| out | <i>EmmPidUpper-Limit</i> | upper limit for EMM pid selection (for auto mode)                  |
| out | <i>Section-Grouping</i>  | enable/disable section frouping for EMM's                          |

**Remarks**

ClientId -1 for don't care

MaxBandwidth triggers only alarm, no specific enforcing beyond the total output bandwidth limit

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EmmgId                                                                                           |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.50** void DCM::DeviceControl::GetEmmgDescList ( in unsigned long *EmmgId*, out IdList *DescRuleIds* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get list of available descriptor rules for EMMG proxy.

**Parameters**

|     |                    |                                                    |
|-----|--------------------|----------------------------------------------------|
| in  | <i>EmmgId</i>      | proxy_id (range [0, 40]) of EMMG proxy             |
| out | <i>DescRuleIds</i> | list of configured descriptor rules (desc_rule_id) |

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EmmgId                                                                                           |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.51** void DCM::DeviceControl::GetEmmgDescriptor ( in unsigned long *EmmgId*, in unsigned long *DescRuleId*, out string *DescRuleName*, out eEmmgDescRuleType *Type*, out string *DescriptorData*, out DataIdList *DataIds* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get descriptor rule (on EMMG proxy) configuration settings.

**Parameters**

|     |                       |                                                                |
|-----|-----------------------|----------------------------------------------------------------|
| in  | <i>EmmgId</i>         | proxy_id (range [0, 40[) of EMMG proxy                         |
| out | <i>DescRuleId</i>     | desc_rule_id of descriptor rule                                |
| out | <i>DescRuleName</i>   | name of descriptor rule                                        |
| out | <i>Type</i>           | type of descriptor rule ('add private data' or 'do no insert') |
| out | <i>DescriptorData</i> | extra (private) data to append to descriptor                   |
| out | <i>DataIds</i>        | list of DataId's where descriptor rule applies to              |

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EmmgId, DescRuleId                                                                               |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.52** void DCM::DeviceControl::GetEmmgStatus ( in unsigned long *EmmgId*, out eConnectionState *EmmgConnectionState*, out unsigned long *NoOfOpenStreams*, out unsigned long *CurrentBandwidth*, out unsigned long *ConnectionPeer* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Get status of EMMG proxy.

**Parameters**

|     |                              |                                                          |
|-----|------------------------------|----------------------------------------------------------|
| in  | <i>EmmgId</i>                | proxy_id (range [0, 40[) of EMMG proxy                   |
| out | <i>Emmg-Connection-State</i> | status of connection                                     |
| out | <i>NoOfOpen-Streams</i>      | number of open streams on connection                     |
| out | <i>Current-Bandwidth</i>     | total bandwidth of all EMM's currently imported via EMMG |
| out | <i>Connection-Peer</i>       | IP address of connected EMMG                             |

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EmmgId                                                                                           |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid (e.g. peer has IPv6 address)                                                     |

**Version**

release 2.0

**Deprecated** This call should not be used anymore since release 10.10 (replaced by call GetEmmgStatus\_V2)

**8.62.4.53** void DCM::DeviceControl::GetEmmgStatus\_V2 ( in unsigned long *EmmgId*, out eConnectionState *EmmgConnectionState*, out unsigned long *NoOfOpenStreams*, out unsigned long *CurrentBandwidth*, out string *ConnectionPeer* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get status of EMMG proxy.

**Parameters**

|     |                              |                                                          |
|-----|------------------------------|----------------------------------------------------------|
| in  | <i>EmmgId</i>                | proxy_id (range [0, 40]) of EMMG proxy                   |
| out | <i>Emmg-Connection-State</i> | status of connection                                     |
| out | <i>NoOfOpen-Streams</i>      | number of open streams on connection                     |
| out | <i>Current-Bandwidth</i>     | total bandwidth of all EMM's currently imported via EMMG |
| out | <i>Connection-Peer</i>       | IP address of connected EMMG                             |

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EmmgId                                                                                           |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 10.10

**8.62.4.54** void DCM::DeviceControl::GetHotEcmgConnection ( in unsigned long *EcmgId*, out boolean *bBackupHotStandby* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get ECMG hot connection backup setting(override ECMG disconnection).

**Parameters**

|     |                           |                                                          |
|-----|---------------------------|----------------------------------------------------------|
| in  | <i>EcmgId</i>             | proxy_id (range [0, 40]) of ECMG proxy                   |
| out | <i>bBackupHot-Standby</i> | flag to indicate if hot ECMG connection backup is needed |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Remarks**

non-active [DCM](#) will set up connection to ECMG, except if hot connection backup is disabled.

**Version**

release 2.5

**8.62.4.55** void DCM::DeviceControl::GetInterfaceList ( out IdList *EcmgIds*, out IdList *EmmgIds*, out IdList *EisIds*, out IdList *PsigIds*, out IdList *MCryptEisIds*, out IdList *MCryptPsigIds* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get list of configured proxies.

**Parameters**

|     |                      |                                            |
|-----|----------------------|--------------------------------------------|
| out | <i>EcmgIds</i>       | list of ECMG's (proxy_id)                  |
| out | <i>EmmgIds</i>       | list of EMMG's (proxy_id)                  |
| out | <i>EisIds</i>        | list of EIS's (proxy_id)                   |
| out | <i>PsigIds</i>       | list of PSIG's (proxy_id)                  |
| out | <i>MCryptEisIds</i>  | list of MCrypt EIS's (proxy_id), obsolete  |
| out | <i>MCryptPsigIds</i> | list of MCrypt PSIG's (proxy_id), obsolete |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i> | internal error only                                                                                      |
| <i>OpNotAllowed</i>   | not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.56** void DCM::DeviceControl::GetInterfaceList\_V2 ( out IdList *EcmgIds*, out IdList *EmmgIds*, out IdList *EisIds*, out IdList *PsigIds*, out IdList *CwglIds* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get list of configured proxies.

**Parameters**

|     |                |                           |
|-----|----------------|---------------------------|
| out | <i>EcmgIds</i> | list of ECMG's (proxy_id) |
| out | <i>EmmgIds</i> | list of EMMG's (proxy_id) |
| out | <i>EisIds</i>  | list of EIS's (proxy_id)  |
| out | <i>PsigIds</i> | list of PSIG's (proxy_id) |
| out | <i>CwgIds</i>  | list of CWG's (proxy_id)  |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i> | internal error only                                                                                      |
| <i>OpNotAllowed</i>   | not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 8.9

**8.62.4.57** void DCM::DeviceControl::GetJclConfig ( out JclInitialValue\_t *InitialValue*, out JclSystemId\_t *SystemId* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get JCL configuration.

**Parameters**

|     |                     |                   |
|-----|---------------------|-------------------|
| out | <i>InitialValue</i> | JCL initial value |
| out | <i>SystemId</i>     | JCL system ID     |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i> | internal error only                                                                                      |
| <i>OpNotAllowed</i>   | not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**Note**

JCL scrambling not yet supported

**8.62.4.58** void DCM::DeviceControl::GetPsigConfig ( in unsigned long *PsigId*, out string *Name*, out ePsigType *PsigType*, out unsigned short *TcpPort*, out unsigned long *MaxBandwidth* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Set PSIG proxy configuration settings.



**Parameters**

|     |                     |                                               |
|-----|---------------------|-----------------------------------------------|
| in  | <i>PsigId</i>       | proxy_id (range [0, 40]) of PSIG proxy        |
| out | <i>Name</i>         | name of PSIG proxy                            |
| out | <i>PsigType</i>     | type of PSIG proxy                            |
| out | <i>TcpPort</i>      | TCP port where to listen for PSIG             |
| out | <i>MaxBandwidth</i> | maximum bandwidth to be used for PSI (in bps) |

**Remarks**

MaxBandwidth triggers only alarm, no specific enforcing beyond the total output bandwidth limit

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.59** void DCM::DeviceControl::GetPsigConfig2 ( in unsigned long *PsigId*, out string *Name*, out ePsigType *PsigType*, out unsigned short *TcpPort*, out unsigned long *MaxBandwidth*, out boolean *DoNotModify* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Set PSIG proxy configuration settings.

**Parameters**

|     |                     |                                                                                                    |
|-----|---------------------|----------------------------------------------------------------------------------------------------|
| in  | <i>PsigId</i>       | proxy_id (range [0, 40]) of PSIG proxy                                                             |
| out | <i>Name</i>         | name of PSIG proxy                                                                                 |
| out | <i>PsigType</i>     | type of PSIG proxy                                                                                 |
| out | <i>TcpPort</i>      | TCP port where to listen for PSIG                                                                  |
| out | <i>MaxBandwidth</i> | maximum bandwidth to be used for PSI (in bps)                                                      |
| in  | <i>DoNotModify</i>  | Tables imported on this proxy will be played out exactly as received, without changing any fields. |

**Remarks**

MaxBandwidth triggers only alarm, no specific enforcing beyond the total output bandwidth limit

**Exceptions**

|                         |                                           |
|-------------------------|-------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing |
| <i>OpNotSucceeded</i>   | internal error only                       |
| <i>InvalidSelection</i> | invalid EisId                             |
| <i>OpNotAllowed</i>     | not logged on                             |

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version |
|-----------------------|----------------------------------------------------------------------------------------------------------|

**Version**

release 7.0

**8.62.4.60** void DCM::DeviceControl::GetPsigConfig3 ( in unsigned long *PsigId*, out string *Name*, out ePsigType *PsigType*, out unsigned short *TcpPort*, out unsigned long *MaxBandwidth*, out boolean *DoNotModify*, out boolean *MultipleNITa* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get PSIG proxy configuration settings.

**Parameters**

|     |                     |                                                                                                    |
|-----|---------------------|----------------------------------------------------------------------------------------------------|
| in  | <i>PsigId</i>       | proxy_id (range [0, 40]) of PSIG proxy                                                             |
| out | <i>Name</i>         | name of PSIG proxy                                                                                 |
| out | <i>PsigType</i>     | type of PSIG proxy                                                                                 |
| out | <i>TcpPort</i>      | TCP port where to listen for PSIG                                                                  |
| out | <i>MaxBandwidth</i> | maximum bandwidth to be used for PSI (in bps)                                                      |
| out | <i>DoNotModify</i>  | Tables imported on this proxy will be played out exactly as received, without changing any fields. |
| out | <i>MultipleNITa</i> | If set, more than one NITa can be provisioned for the same TS                                      |

**Remarks**

MaxBandwidth triggers only alarm, no specific enforcing beyond the total output bandwidth limit

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 9.0

**8.62.4.61** void DCM::DeviceControl::GetPsigStatus ( in unsigned long *PsigId*, out eConnectionState *PsigConnectionState*, out unsigned long *NoOfStreams*, out unsigned long *CurrentBandwidth*, out unsigned long *ConnectionPeer* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Get status of PSIG proxy.

**Parameters**

|     |                              |                                                        |
|-----|------------------------------|--------------------------------------------------------|
| in  | <i>PsigId</i>                | proxy_id (range [0, 40]) of PSIG proxy                 |
| out | <i>Psig-Connection-State</i> | status of connection                                   |
| out | <i>NoOfStreams</i>           | number of open streams on connection                   |
| out | <i>Current-Bandwidth</i>     | total bandwidth of all PSI currently imported via PSIG |
| out | <i>Connection-Peer</i>       | IP address of connected PSIG                           |

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid (e.g. peer has IPv6 address)                                                     |

**Version**

release 2.0

**Deprecated** This call should not be used anymore since release 10.10 (replaced by call GetPsigStatus\_V2)

**8.62.4.62** void DCM::DeviceControl::GetPsigStatus\_V2 ( in unsigned long *PsigId*, out eConnectionState *PsigConnectionState*, out unsigned long *NoOfStreams*, out unsigned long *CurrentBandwidth*, out string *ConnectionPeer* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

Get status of PSIG proxy.

**Parameters**

|     |                              |                                                        |
|-----|------------------------------|--------------------------------------------------------|
| in  | <i>PsigId</i>                | proxy_id (range [0, 40]) of PSIG proxy                 |
| out | <i>Psig-Connection-State</i> | status of connection                                   |
| out | <i>NoOfStreams</i>           | number of open streams on connection                   |
| out | <i>Current-Bandwidth</i>     | total bandwidth of all PSI currently imported via PSIG |
| out | <i>Connection-Peer</i>       | IP address of connected PSIG                           |

**Exceptions**

|                         |                                           |
|-------------------------|-------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing |
| <i>OpNotSucceeded</i>   | internal error only                       |
| <i>InvalidSelection</i> | invalid EisId                             |

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotAllowed</i>   | not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>     | when parameters invalid (e.g. peer has IPv6 address)                                                     |

**Version**

release 10.10

**8.62.4.63** void DCM::DeviceControl::GetScsSettings ( out boolean *ScrambleOnlyAV*, out boolean *CheckElementsAtProvisionTime*, out unsigned long *ScgAcceptDelay* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get global SCS settings.

**Parameters**

|     |                                       |                                          |
|-----|---------------------------------------|------------------------------------------|
| out | <i>ScrambleOnly-AV</i>                | scramble only audio and video            |
| out | <i>Check-ElementsAt-ProvisionTime</i> | check SCG at provision time              |
| out | <i>ScgAccept-Delay</i>                | minimum delay to accept SCG after reboot |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i> | internal error only                                                                                      |
| <i>OpNotAllowed</i>   | not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**8.62.4.64** void DCM::DeviceControl::IsScrambler ( out boolean *bScrambler* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Notifies the client whether it is a scrambler or not.

**Parameters**

|     |                   |                  |
|-----|-------------------|------------------|
| out | <i>bScrambler</i> | scrambler or not |
|-----|-------------------|------------------|

**Exceptions**

|                       |                                           |
|-----------------------|-------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing |
| <i>OpNotSucceeded</i> | internal error only                       |
| <i>OpNotAllowed</i>   | not logged on                             |

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version |
|-----------------------|----------------------------------------------------------------------------------------------------------|

**Version**

release 2.0

**8.62.4.65** void DCM::DeviceControl::RevertNow ( in unsigned long *EcmgId* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

???

**Parameters**

|    |               |                                        |
|----|---------------|----------------------------------------|
| in | <i>EcmgId</i> | proxy_id (range [0, 40]) of ECMG proxy |
|----|---------------|----------------------------------------|

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |

**Note**

Not supported!!!

**8.62.4.66** void DCM::DeviceControl::SetClearStrongPairingEnforceBit ( in boolean *bClearStrongPairingEnforcementBit* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Set strong pairing enforcement bit clear flag (NDS specific).

**Parameters**

|    |                                           |                                                           |
|----|-------------------------------------------|-----------------------------------------------------------|
| in | <i>bClearStrongPairing-EnforcementBit</i> | indicate whether to clear bit in CW or not (range [0, 1]) |
|----|-------------------------------------------|-----------------------------------------------------------|

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i> | internal error only                                                                                      |
| <i>OpNotAllowed</i>   | not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>     | when parameters invalid                                                                                  |

**Version**

release 5.5

**8.62.4.67** void DCM::DeviceControl::SetCwgConfig ( in unsigned long *CwgId*, in string *Name*, in eCwgType *Type*, in unsigned short *CasId*, in unsigned short *SubCasId*, in eCwgChannelIdMode *ChannelIdMode* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set CWG proxy configuration settings.

**Parameters**

|    |                       |                                              |
|----|-----------------------|----------------------------------------------|
| in | <i>CwgId</i>          | proxy_id (range [0, 40]) of CWG proxy        |
| in | <i>Name</i>           | name of CWG proxy (length max 20 characters) |
| in | <i>Type</i>           | type of CWG proxy                            |
| in | <i>CasId</i>          | CA_system_id of CWG                          |
| in | <i>SubCasId</i>       | CA_subsystem_id of CWG                       |
| in | <i>ChannelId-Mode</i> | CWG channel_id selection mode                |

**Exceptions**

|                         |                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                 |
| <i>OpNotSucceeded</i>   | internal error only                                                                       |
| <i>InvalidSelection</i> | invalid CwgId or parameter                                                                |
| <i>OpNotAllowed</i>     | not logged on                                                                             |
| <i>OpNotSupported</i>   | called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                   |

**Version**

release 9.0

**8.62.4.68** void DCM::DeviceControl::SetCwgConnConfig ( in unsigned long *CwgId*, in unsigned long *ConnId*, in unsigned long *IpAddress*, in unsigned short *Port*, in unsigned short *ChannelId*, in long *Priority* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set connection (channel) configuration settings.

**Parameters**

|    |                  |                                                              |
|----|------------------|--------------------------------------------------------------|
| in | <i>CwgId</i>     | proxy_id (range [0, 40]) of CWG proxy                        |
| in | <i>ConnId</i>    | conn_id of connection (channel)                              |
| in | <i>IpAddress</i> | IP address of CWG to connect with (range [0, 0xffffffff])    |
| in | <i>Port</i>      | port on CWG to establish connection on (range [100, 0xffff]) |
| in | <i>ChannelId</i> | channel_id to be used (for manual mode)                      |
| in | <i>Priority</i>  | priority of connection (for backup and load balancing)       |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid CwgId, ConnId                                                                          |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                        |

**Version**

release 9.0

**Deprecated** This call should not be used anymore since release 10.10 (replaced by call SetCwgConn-Config\_V2)

**8.62.4.69** void DCM::DeviceControl::SetCwgConnConfig\_V2 ( in unsigned long *CwgId*, in unsigned long *ConnId*, in string *IpAddress*, in unsigned short *Port*, in unsigned short *ChannelId*, in long *Priority* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set connection (channel) configuration settings.

**Parameters**

|    |                  |                                                              |
|----|------------------|--------------------------------------------------------------|
| in | <i>CwgId</i>     | proxy_id (range [0, 40]) of CWG proxy                        |
| in | <i>ConnId</i>    | conn_id of connection (channel)                              |
| in | <i>IpAddress</i> | IP address of CWG to connect with                            |
| in | <i>Port</i>      | port on CWG to establish connection on (range [100, 0xffff]) |
| in | <i>ChannelId</i> | channel_id to be used (for manual mode)                      |
| in | <i>Priority</i>  | priority of connection (for backup and load balancing)       |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid CwgId, ConnId                                                                          |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                        |

**Version**

release 10.10

**8.62.4.70** void DCM::DeviceControl::SetCwgOverride ( in unsigned long *CwgId*, in boolean *OverrideMaxCompTime*, in short *MaxCompTime*, in boolean *OverrideMaxStreams*, in unsigned short *MaxStreams* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set CWG proxy advanced settings.

**Parameters**

|    |                             |                                                              |
|----|-----------------------------|--------------------------------------------------------------|
| in | <i>CwgId</i>                | proxy_id (range [0, 40]) of CWG proxy                        |
| in | <i>OverrideMax-CompTime</i> | flag to override max_comp_time (range [0, 1])                |
| in | <i>MaxCompTime</i>          | overruled value for max_comp_time (in ms) (range [0, 60000]) |
| in | <i>OverrideMax-Streams</i>  | flag to override max_streams (range [0, 1])                  |
| in | <i>MaxStreams</i>           | overruled value for max_streams (range [0, 80])              |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid CwgId                                                                                  |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                        |

**Version**

release 9.0

**8.62.4.71** void DCM::DeviceControl::SetDeviceAsBackup ( in boolean *bIsBackup* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Set the device (DCM) as backup device or not.

**Parameters**

|    |                  |                                             |
|----|------------------|---------------------------------------------|
| in | <i>bIsBackup</i> | device becomes backup or not (range [0, 1]) |
|----|------------------|---------------------------------------------|

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i> | internal error only                                                                                      |
| <i>OpNotAllowed</i>   | not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>     | when parameters invalid                                                                                  |



**Version**

release 2.5

**Deprecated** This call should not be used anymore since release 4.0. Instead, SetDeviceActiveMode should be used.

**8.62.4.72** void DCM::DeviceControl::SetEcmgBackup ( in unsigned long *EcmgId*, in boolean *BackupRevertive*, in long *RevertTime*, in boolean *HotStandby* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set ECMG backup settings (obsolete!).

**Parameters**

|    |                         |                                        |
|----|-------------------------|----------------------------------------|
| in | <i>EcmgId</i>           | proxy_id (range [0, 40]) of ECMG proxy |
| in | <i>Backup-Revertive</i> | ??? (range [0,1])                      |
| in | <i>RevertTime</i>       | ??? (in sec) (range [0, 60])           |
| in | <i>HotStandby</i>       | ??? (range [0, 1])                     |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                        |

**Version**

release 2.0

**Deprecated** This call should not be used on [DCM](#).

**8.62.4.73** void DCM::DeviceControl::SetEcmgConfig ( in unsigned long *EcmgId*, in string *Name*, in eEcmgType *EcmgType*, in unsigned short *CasId*, in unsigned short *SubCasId*, in eEcmPidSource *EcmPidSource*, in unsigned short *EcmPidLowerLimit*, in unsigned short *EcmPidUpperLimit*, in eEcmgChannelIdMode *EcmgChannelIdMode* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set ECMG proxy configuration settings.

**Parameters**

|    |                     |                                               |
|----|---------------------|-----------------------------------------------|
| in | <i>EcmgId</i>       | proxy_id (range [0, 40]) of ECMG proxy        |
| in | <i>Name</i>         | name of ECMG proxy (length max 20 characters) |
| in | <i>EcmgType</i>     | type of ECMG proxy                            |
| in | <i>CasId</i>        | CA_system_id of ECMG                          |
| in | <i>SubCasId</i>     | CA_subsystem_id of ECMG                       |
| in | <i>EcmPidSource</i> | ECM pid source                                |

|    |                          |                                                                          |
|----|--------------------------|--------------------------------------------------------------------------|
| in | <i>EcmPidLowerLimit</i>  | lower limit for ECM pid selection (for auto mode) (range [0x20, 0x1fff]) |
| in | <i>EcmPidUpperLimit</i>  | upper limit for ECM pid selection (for auto mode) (range [0x20, 0x1fff]) |
| in | <i>EcmgChannelIdMode</i> | ECMG channel_id selection mode                                           |

### Exceptions

|                         |                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                 |
| <i>OpNotSucceeded</i>   | internal error only                                                                       |
| <i>InvalidSelection</i> | invalid EcmgId or parameter                                                               |
| <i>OpNotAllowed</i>     | not logged on                                                                             |
| <i>OpNotSupported</i>   | called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                   |

### Version

release 2.0

**Deprecated** This call should not be used anymore since release 8.9 (replaced by call SetEcmgConfig\_V2)

**8.62.4.74** void DCM::DeviceControl::SetEcmgConfig\_V2 ( in unsigned long *EcmgId*, in string *Name*, in eEcmgType\_V2 *EcmgType*, in unsigned short *CasId*, in unsigned short *SubCasId*, in eEcmPidSource *EcmPidSource*, in unsigned short *EcmPidLowerLimit*, in unsigned short *EcmPidUpperLimit*, in eEcmgChannelIdMode *EcmgChannelIdMode* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set ECMG proxy configuration settings.

### Parameters

|    |                          |                                                                          |
|----|--------------------------|--------------------------------------------------------------------------|
| in | <i>EcmgId</i>            | proxy_id (range [0, 40]) of ECMG proxy                                   |
| in | <i>Name</i>              | name of ECMG proxy (length max 20 characters)                            |
| in | <i>EcmgType</i>          | type of ECMG proxy                                                       |
| in | <i>CasId</i>             | CA_system_id of ECMG                                                     |
| in | <i>SubCasId</i>          | CA_subsystem_id of ECMG                                                  |
| in | <i>EcmPidSource</i>      | ECM pid source                                                           |
| in | <i>EcmPidLowerLimit</i>  | lower limit for ECM pid selection (for auto mode) (range [0x20, 0x1fff]) |
| in | <i>EcmPidUpperLimit</i>  | upper limit for ECM pid selection (for auto mode) (range [0x20, 0x1fff]) |
| in | <i>EcmgChannelIdMode</i> | ECMG channel_id selection mode                                           |

### Exceptions

|                         |                                           |
|-------------------------|-------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing |
| <i>OpNotSucceeded</i>   | internal error only                       |
| <i>InvalidSelection</i> | invalid EcmgId or parameter               |

|                       |                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------|
| <i>OpNotAllowed</i>   | not logged on                                                                             |
| <i>OpNotSupported</i> | called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>     | when parameters invalid                                                                   |

### Version

release 8.9 - PowerVu type behaves as Standard ECMG  
release 9.0

**8.62.4.75** void DCM::DeviceControl::SetEcmgConnConfig ( in unsigned long *EcmgId*, in unsigned long *ConnId*, in unsigned long *IpAddress*, in unsigned short *Port*, in unsigned short *ChannelId*, in long *Priority* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set connection (channel) configuration settings.

### Parameters

|    |                  |                                                               |
|----|------------------|---------------------------------------------------------------|
| in | <i>EcmgId</i>    | proxy_id (range [0, 40[) of ECMG proxy                        |
| in | <i>ConnId</i>    | conn_id of connection (channel)                               |
| in | <i>IpAddress</i> | IP address of ECMG to connect with (range ]0, 0xffffffff])    |
| in | <i>Port</i>      | port on ECMG to establish connection on (range [100, 0xffff]) |
| in | <i>ChannelId</i> | channel_id to be used (for manual mode)                       |
| in | <i>Priority</i>  | priority of connection (for backup and load balancing)        |

### Exceptions

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId, ConnId                                                                         |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                        |

### Version

release 2.0

**Deprecated** This call should not be used anymore since release 10.10 (replaced by call SetEcmgConnConfig\_V2)

**8.62.4.76** void DCM::DeviceControl::SetEcmgConnConfig\_V2 ( in unsigned long *EcmgId*, in unsigned long *ConnId*, in string *IpAddress*, in unsigned short *Port*, in unsigned short *ChannelId*, in long *Priority* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set connection (channel) configuration settings.

**Parameters**

|    |                  |                                                               |
|----|------------------|---------------------------------------------------------------|
| in | <i>EcmgId</i>    | proxy_id (range [0, 40]) of ECMG proxy                        |
| in | <i>ConnId</i>    | conn_id of connection (channel)                               |
| in | <i>IPAddress</i> | IP address of ECMG to connect with                            |
| in | <i>Port</i>      | port on ECMG to establish connection on (range [100, 0xffff]) |
| in | <i>ChannelId</i> | channel_id to be used (for manual mode)                       |
| in | <i>Priority</i>  | priority of connection (for backup and load balancing)        |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId, ConnId                                                                         |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                        |

**Version**

release 10.10

**8.62.4.77** void DCM::DeviceControl::SetEcmgDescriptor ( in unsigned long *EcmgId*, in unsigned long *DescRuleId*, in string *DescRuleName*, in eEcmgDescRuleType *Type*, in eDescInsertionLevel *InsertionLevel*, in string *DescriptorData*, in EcmgIdList *EcmlDs* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set descriptor rule (on ECMG proxy) configuration settings.

**Parameters**

|    |                       |                                                                             |
|----|-----------------------|-----------------------------------------------------------------------------|
| in | <i>EcmgId</i>         | proxy_id (range [0, 40]) of ECMG proxy                                      |
| in | <i>DescRuleId</i>     | desc_rule_id of descriptor rule                                             |
| in | <i>DescRuleName</i>   | name of descriptor rule (length max 30 characters)                          |
| in | <i>Type</i>           | type of descriptor rule ('add private data' or 'do not insert')             |
| in | <i>InsertionLevel</i> | insertion level of descriptor                                               |
| in | <i>DescriptorData</i> | extra (private) data to append to descriptor (length of data max 100 bytes) |
| in | <i>EcmlDs</i>         | list of EcmgId's where descriptor rule applies to                           |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId, DescRuleId                                                                     |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                        |

**Remarks**

descriptor string format: hex byte array possible future extentions:

- EcmPid: inserts 13 bit ECM pid (preceeded by hex nibble E of which one bit is overwritten)
- EcmId: inserts 16 bits EcmId
- CasId: inserts 16 bits CasId

**Version**

release 2.0

**Deprecated** This call should not be used anymore since release 8.1 (replaced by call SetEcmgDescriptor\_V2)

**8.62.4.78** void DCM::DeviceControl::SetEcmgDescriptor\_V2 ( in unsigned long *EcmgId*, in unsigned long *DescRuleId*, in string *DescRuleName*, in eEcmgDescRuleType *Type*, in eDescInsertionLevel\_V2 *InsertionLevel*, in string *DescriptorData*, in EcmIdList *EcmIds* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set descriptor rule (on ECMG proxy) configuration settings.

**Parameters**

|    |                       |                                                                             |
|----|-----------------------|-----------------------------------------------------------------------------|
| in | <i>EcmgId</i>         | proxy_id (range [0, 40]) of ECMG proxy                                      |
| in | <i>DescRuleId</i>     | desc_rule_id of descriptor rule                                             |
| in | <i>DescRuleName</i>   | name of descriptor rule (length max 30 characters)                          |
| in | <i>Type</i>           | type of descriptor rule ('add private date' or 'do not insert')             |
| in | <i>InsertionLevel</i> | insertion level of descriptor                                               |
| in | <i>DescriptorData</i> | extra (private) data to append to descriptor (length of data max 100 bytes) |
| in | <i>EcmIds</i>         | list of EcmId's where descriptor rule applies to                            |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId, DescRuleId                                                                     |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                        |

**Remarks**

descriptor string format: hex byte array possible future extentions:

- EcmPid: inserts 13 bit ECM pid (preceeded by hex nibble E of which one bit is overwritten)
- EcmId: inserts 16 bits EcmId
- CasId: inserts 16 bits CasId

**Version**

release 8.1

**8.62.4.79** void DCM::DeviceControl::SetEcmgNotifyCPExtension ( in unsigned long *EcmgId*, in boolean *NotifyCPExtension* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set ECMG notify CP extension.

**Parameters**

|    |                           |                                                                    |
|----|---------------------------|--------------------------------------------------------------------|
| in | <i>EcmgId</i>             | proxy_id (range [0, 40[) of ECMG proxy                             |
| in | <i>NotifyCP-Extension</i> | enable/disable CP extension notification (range [0, 1], default 0) |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                        |

**Version**

release 8.9

**8.62.4.80** void DCM::DeviceControl::SetEcmgOverride ( in unsigned long *EcmgId*, in boolean *OverrideMaxCompTime*, in short *MaxCompTime*, in boolean *OverrideMinimumCPDuration*, in unsigned long *MinimumCPDuration*, in boolean *OverrideTransitionStartDelay*, in short *TransitionStartDelay*, in boolean *OverrideTransitionStopDelay*, in short *TransitionStopDelay*, in boolean *OverrideStartDelay*, in short *StartDelay*, in boolean *OverrideStopDelay*, in short *StopDelay*, in boolean *OverrideAcStartDelay*, in short *AcStartDelay*, in boolean *OverrideAcStopDelay*, in short *AcStopDelay* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set ECMG proxy advanced settings (part 1).

**Parameters**

|    |                                    |                                                                     |
|----|------------------------------------|---------------------------------------------------------------------|
| in | <i>EcmgId</i>                      | proxy_id (range [0, 40[) of ECMG proxy                              |
| in | <i>OverrideMax-CompTime</i>        | flag to override max_comp_time (range [0, 1])                       |
| in | <i>MaxCompTime</i>                 | overruled value for max_comp_time (in ms) (range [0, 60000])        |
| in | <i>Override-MinimumCP-Duration</i> | flag to override min_CP_duration (range [0, 1])                     |
| in | <i>MinimumCP-Duration</i>          | overruled value for min_CP_duration (in ms) (range [1000, 3600000]) |

|    |                                       |                                                                        |
|----|---------------------------------------|------------------------------------------------------------------------|
| in | <i>Override-Transition-StartDelay</i> | flag to override transition_delay_start (range [0, 1])                 |
| in | <i>Transition-StartDelay</i>          | overruled value for transition_delay_start (in ms) (range [-30000, 0]) |
| in | <i>Override-TransitionStop-Delay</i>  | flag to override transition_delay_stop (range [0, 1])                  |
| in | <i>TransitionStop-Delay</i>           | overruled value for taransition_delay_stop (in ms) (range [0, 30000])  |
| in | <i>OverrideStart-Delay</i>            | flag to override delay_start (range [0, 1])                            |
| in | <i>StartDelay</i>                     | overruled value for delay_start (in ms) (range [-30000, 30000])        |
| in | <i>OverrideStop-Delay</i>             | flag to override delay_stop (range [0, 1])                             |
| in | <i>StopDelay</i>                      | overruled value for delay_stop (in ms) (range [-30000, 30000])         |
| in | <i>OverrideAc-StartDelay</i>          | flag to override AC_delay_start (range [0, 1])                         |
| in | <i>AcStartDelay</i>                   | overruled value for AC_delay_start (in ms) (range [-30000, 30000])     |
| in | <i>OverrideAc-StopDelay</i>           | flag to override AC_delay_stop (range [0, 1])                          |
| in | <i>AcStopDelay</i>                    | overruled value for AC_delay_stop (in ms) (range [-30000, 30000])      |

### Exceptions

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                        |

### Version

release 2.0

**8.62.4.81** void DCM::DeviceControl::SetEcmgOverrideExt ( in unsigned long *EcmgId*, in boolean *OverrideMaxStreams*, in unsigned short *MaxStreams*, in boolean *OverrideEcmRepPeriod*, in unsigned short *EcmRepPeriod* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set ECMG proxy advanced settings (part 2).

### Parameters

|    |                              |                                                               |
|----|------------------------------|---------------------------------------------------------------|
| in | <i>EcmgId</i>                | proxy_id (range [0, 40]) of ECMG proxy                        |
| in | <i>OverrideMax-Streams</i>   | flag to override max_streams (range [0, 1])                   |
| in | <i>MaxStreams</i>            | overruled value for max_streams (range [0, 80])               |
| in | <i>OverrideEcm-RepPeriod</i> | flag to override ECM_rep_period (range [0, 1])                |
| in | <i>EcmRepPeriod</i>          | overruled value for ECM_rep_period (in ms) (range [0, 30000]) |

**Exceptions**

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                      |
| <i>OpNotSucceeded</i>   | internal error only                                                                            |
| <i>InvalidSelection</i> | invalid EcmgId                                                                                 |
| <i>OpNotAllowed</i>     | not logged on                                                                                  |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                        |

**Version**

release 2.0

**8.62.4.82** void DCM::DeviceControl::SetEisConfig ( in unsigned long *EisId*, in string *Name*, in eEisType *EisType*, in unsigned short *TcpPort*, in boolean *OverrideRecommendedCpDuration*, in unsigned long *RecommendedCpDuration* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set EIS proxy configuration settings.

**Parameters**

|    |                                        |                                                                                |
|----|----------------------------------------|--------------------------------------------------------------------------------|
| in | <i>EisId</i>                           | proxy_id (range [0, 40]) of EIS proxy                                          |
| in | <i>Name</i>                            | name of EIS proxy (length max 20 characters)                                   |
| in | <i>EisType</i>                         | type of EIS proxy                                                              |
| in | <i>TcpPort</i>                         | TCP port where to listen for EIS                                               |
| in | <i>Override-Recommended-CpDuration</i> | flag to override recommended_CP_duration (range [0, 1])                        |
| in | <i>Recommended-CpDuration</i>          | overruled value for recommended_CP_duration (in ms) (range [0x00, 0x7fffffff]) |

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                                  |



**Version**

release 2.0

**8.62.4.83** void DCM::DeviceControl::SetEmmgConfig ( in unsigned long *EmmgId*, in string *Name*, in long *ClientId*, in eDataSocket *DataSocket*, in unsigned short *TcpPort*, in unsigned short *UdpPort*, in unsigned long *MaxBandwidth*, in eEmmPidSource *EmmPidSource*, in unsigned short *EmmPidLowerLimit*, in unsigned short *EmmPidUpperLimit*, in eEmmSectionGrouping *SectionGrouping* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set EMMG proxy configuration settings.

**Parameters**

|    |                         |                                                                          |
|----|-------------------------|--------------------------------------------------------------------------|
| in | <i>EmmgId</i>           | proxy_id (range [0, 40]) of EMMG proxy                                   |
| in | <i>Name</i>             | name of EMMG proxy (length max 50 characters)                            |
| in | <i>ClientId</i>         | client_id of EMMG (range [-1, 0x7fff])                                   |
| in | <i>DataSocket</i>       | type of data for socket (TCP or UDP)                                     |
| in | <i>TcpPort</i>          | TCP port where to listen for EMMG                                        |
| in | <i>UdpPort</i>          | UDP port where to listen for EMMG                                        |
| in | <i>MaxBandwidth</i>     | maximum bandwidth to be used for EMM (in bps) (range [0, 5000000])       |
| in | <i>EmmPidSource</i>     | EMM pid source (stream_id, channel_id, data_id, packet_id or auto)       |
| in | <i>EmmPidLowerLimit</i> | lower limit for EMM pid selection (for auto mode) (range [0x00, 0x1fff]) |
| in | <i>EmmPidUpperLimit</i> | upper limit for EMM pid selection (for auto mode) (range [0x00, 0x1fff]) |
| in | <i>SectionGrouping</i>  | enable/disable section frouping for EMM's (range [0, 1])                 |

**Remarks**

ClientId 0 for don't care

MaxBandwidth triggers only alarm, no specific enforcing beyond the total output bandwidth limit

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EmmgId                                                                                           |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                                  |

**Version**

release 2.0

**8.62.4.84** void DCM::DeviceControl::SetEmmgDescriptor ( in unsigned long *EmmgId*, in unsigned long *DescRuleId*, in string *DescRuleName*, in eEmmgDescRuleType *Type*, in string *DescriptorData*, in DataIdList *DataIds* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set descriptor rule (on EMMG proxy) configuration settings.

**Parameters**

|    |                       |                                                                             |
|----|-----------------------|-----------------------------------------------------------------------------|
| in | <i>EmmgId</i>         | proxy_id (range [0, 40]) of EMMG proxy                                      |
| in | <i>DescRuleId</i>     | desc_rule_id of descriptor rule                                             |
| in | <i>DescRuleName</i>   | name of descriptor rule (length max 30 characters)                          |
| in | <i>Type</i>           | type of descriptor rule ('add private data' or 'do no insert')              |
| in | <i>DescriptorData</i> | extra (private) data to append to descriptor (length of data max 100 bytes) |
| in | <i>DataIds</i>        | list of DataId's where descriptor rule applies to                           |

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EmmgId, DescRuleId                                                                               |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                                  |

**Version**

release 2.0

**8.62.4.85** void DCM::DeviceControl::SetHotEcmgConnection ( in unsigned long *EcmgId*, in boolean *bBackupHotStandby* ) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set ECMG hot connection backup setting(override ECMG disconnection).

**Parameters**

|    |                          |                                                                         |
|----|--------------------------|-------------------------------------------------------------------------|
| in | <i>EcmgId</i>            | proxy_id (range [0, 40]) of ECMG proxy                                  |
| in | <i>bBackupHotStandby</i> | flag to indicate if hot ECMG connection backup is needed (range [0, 1]) |

**Exceptions**

|                         |                                           |
|-------------------------|-------------------------------------------|
| <i>Timeout</i>          | a timeout occurred during IIOP processing |
| <i>OpNotSucceeded</i>   | internal error only                       |
| <i>InvalidSelection</i> | invalid EcmgId                            |
| <i>OpNotAllowed</i>     | not logged on                             |

|                       |                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | when called on other board than the mainboard or not yet supported on running software version |
| <i>OutOfRange</i>     | when parameters invalid                                                                        |

**Remarks**

non-active **DCM** will set up connection to ECMG, except if hot connection backup is disabled.

**Version**

release 2.5

**8.62.4.86** void DCM::DeviceControl::SetJclConfig ( in JclInitialValue\_t *InitialValue*, in JclSystemId\_t *SystemId* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set JCL configuration.

**Parameters**

|    |                     |                   |
|----|---------------------|-------------------|
| in | <i>InitialValue</i> | JCL initial value |
| in | <i>SystemId</i>     | JCL system ID     |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i> | internal error                                                                                           |
| <i>OpNotAllowed</i>   | not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version |

**Version**

release 2.0

**Note**

JCL scrambling not yet supported

**8.62.4.87** void DCM::DeviceControl::SetPsigConfig ( in unsigned long *PsigId*, in string *Name*, in ePsigType *PsigType*, in unsigned short *TcpPort*, in unsigned long *MaxBandwidth* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set PSIG proxy configuration settings.

**Parameters**

|    |                     |                                                                    |
|----|---------------------|--------------------------------------------------------------------|
| in | <i>PsigId</i>       | proxy_id (range [0, 40]) of PSIG proxy                             |
| in | <i>Name</i>         | name of PSIG proxy (length max 20 characters)                      |
| in | <i>PsigType</i>     | type of PSIG proxy                                                 |
| in | <i>TcpPort</i>      | TCP port where to listen for PSIG                                  |
| in | <i>MaxBandwidth</i> | maximum bandwidth to be used for PSI (in bps) (range [0, 2000000]) |

**Remarks**

MaxBandwidth triggers only alarm, no specific enforcing beyond the total output bandwidth limit

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                                  |

**Version**

release 2.0

**8.62.4.88** void DCM::DeviceControl::SetPsigConfig2 ( in unsigned long *PsigId*, in string *Name*, in ePsigType *PsigType*, in unsigned short *TcpPort*, in unsigned long *MaxBandwidth*, in boolean *DoNotModify* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set PSIG proxy configuration settings.

**Parameters**

|    |                     |                                                                                                            |
|----|---------------------|------------------------------------------------------------------------------------------------------------|
| in | <i>PsigId</i>       | proxy_id (range [0, 40[) of PSIG proxy                                                                     |
| in | <i>Name</i>         | name of PSIG proxy (length max 20 characters)                                                              |
| in | <i>PsigType</i>     | type of PSIG proxy                                                                                         |
| in | <i>TcpPort</i>      | TCP port where to listen for PSIG                                                                          |
| in | <i>MaxBandwidth</i> | maximum bandwidth to be used for PSI (in bps) (range [0, 2000000])                                         |
| in | <i>DoNotModify</i>  | If set, tables imported on this proxy will be played out exactly as received, without changing any fields. |

**Remarks**

MaxBandwidth triggers only alarm, no specific enforcing beyond the total output bandwidth limit

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                                  |

**Version**

release 7.0

**8.62.4.89** void DCM::DeviceControl::SetPsigConfig3 ( in unsigned long *PsigId*, in string *Name*, in ePsigType *PsigType*, in unsigned short *TcpPort*, in unsigned long *MaxBandwidth*, in boolean *DoNotModify*, in boolean *AllowMultipleNITa* ) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

Set PSIG proxy configuration settings.

**Parameters**

|    |                           |                                                                                                            |
|----|---------------------------|------------------------------------------------------------------------------------------------------------|
| in | <i>PsigId</i>             | proxy_id (range [0, 40]) of PSIG proxy                                                                     |
| in | <i>Name</i>               | name of PSIG proxy (length max 20 characters)                                                              |
| in | <i>PsigType</i>           | type of PSIG proxy                                                                                         |
| in | <i>TcpPort</i>            | TCP port where to listen for PSIG                                                                          |
| in | <i>MaxBandwidth</i>       | maximum bandwidth to be used for PSI (in bps) (range [0, 2000000])                                         |
| in | <i>DoNotModify</i>        | If set, tables imported on this proxy will be played out exactly as received, without changing any fields. |
| in | <i>AllowMultiple-NITa</i> | If set, more than one NITa can be provisioned for the same TS                                              |

**Remarks**

MaxBandwidth triggers only alarm, no specific enforcing beyond the total output bandwidth limit

**Exceptions**

|                         |                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>          | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i>   | internal error only                                                                                      |
| <i>InvalidSelection</i> | invalid EisId                                                                                            |
| <i>OpNotAllowed</i>     | not logged on                                                                                            |
| <i>OpNotSupported</i>   | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>       | when parameters invalid                                                                                  |

**Version**

release 9.0

**8.62.4.90** void DCM::DeviceControl::SetScsSettings ( in boolean *ScrambleOnlyAV*, in boolean *CheckElementsAtProvisionTime*, in unsigned long *ScgAcceptDelay* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

Set global SCS settings.

**Parameters**

|    |                                       |                                              |
|----|---------------------------------------|----------------------------------------------|
| in | <i>ScrambleOnly-AV</i>                | scramble only audio and video (range [0, 1]) |
| in | <i>Check-ElementsAt-ProvisionTime</i> | check SCG at provision time (range [0, 1])   |

|    |                        |                                                                    |
|----|------------------------|--------------------------------------------------------------------|
| in | <i>ScgAccept-Delay</i> | minimum delay (in sec) to accept SCG after reboot (range [0, 120]) |
|----|------------------------|--------------------------------------------------------------------|

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                |
| <i>OpNotSucceeded</i> | internal error only                                                                                      |
| <i>OpNotAllowed</i>   | not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version |
| <i>OutOfRange</i>     | when parameters invalid                                                                                  |

**Version**

release 2.0

## 8.63 BISS scrambling

This module contains types, enums and methods related to BISS scrambling.

### Typedefs

- typedef sequence< unsigned short > [DCM::DeviceControl::PidList\\_t](#)

### Enumerations

- enum [DCM::DeviceControl::enEncryptionAlgorithm](#) { [DCM::DeviceControl::eCSA\\_Encryption](#), [DCM::DeviceControl::eDES\\_Encryption](#), [DCM::DeviceControl::eEncryptionAlgorithm\\_Reserved2](#), [DCM::DeviceControl::eEncryptionAlgorithm\\_Reserved3](#), [DCM::DeviceControl::eEncryptionAlgorithm\\_Reserved4](#), [DCM::DeviceControl::eEncryptionAlgorithm\\_Reserved5](#), [DCM::DeviceControl::eEncryptionAlgorithm\\_Reserved6](#), [DCM::DeviceControl::eEncryptionAlgorithm\\_Reserved7](#), [DCM::DeviceControl::eEncryptionAlgorithm\\_Reserved8](#), [DCM::DeviceControl::eEncryptionAlgorithm\\_Reserved9](#), [DCM::DeviceControl::eEncryptionAlgorithm\\_Reserved10](#) }

*Scrambling algorithm.*

- enum [DCM::DeviceControl::enScramblingAction](#) { [DCM::DeviceControl::eScrambling](#), [DCM::DeviceControl::eDescrambling](#) }

*Scrambling action.*

- enum [DCM::DeviceControl::enScramblingMode](#) { [DCM::DeviceControl::eDvbScrambling](#), [DCM::DeviceControl::eBissScrambling](#) }

*Scrambling mode.*

- enum [DCM::DeviceControl::enOperatingMode\\_t](#) { [DCM::DeviceControl::ePowerVu](#), [DCM::DeviceControl::ePowerVuSimulcrypt](#), [DCM::DeviceControl::eSimulcrypt](#), [DCM::DeviceControl::eOperatingMode\\_Reserved4](#), [DCM::DeviceControl::eOperatingMode\\_Reserved5](#) }

*Operating mode (PowerVu specific).*

### Functions

- void [DCM::DeviceControl::SCR\\_SetEncryptionAlgorithm](#) (in unsigned short BoardNr, in enEncryptionAlgorithm eEncryptionAlgorithm) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the encryption algorithm.*

- void [DCM::DeviceControl::SCR\\_GetEncryptionAlgorithm](#) (in unsigned short BoardNr, out enEncryptionAlgorithm eEncryptionAlgorithm) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the encryption algorithm.*

- void [DCM::DeviceControl::SCR\\_SetScramblingAction](#) (in unsigned short BoardNr, in enScramblingAction eScramblingAction) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the scrambling/descrambling mode.*

- void [DCM::DeviceControl::SCR\\_GetScramblingAction](#) (in unsigned short BoardNr, out enScramblingAction eScramblingAction) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the scrambling/descrambling mode.*

- void [DCM::DeviceControl::SCR\\_SetDefaultScramblingMode](#) (in unsigned short BoardNr, in enScramblingMode eScramblingMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default scrambling mode.*

- void [DCM::DeviceControl::SCR\\_GetDefaultScramblingMode](#) (in unsigned short BoardNr, out enScramblingMode eScramblingMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default scrambling mode.*

- void [DCM::DeviceControl::SCR\\_SetDefaultSessionWord](#) (in unsigned short BoardNr, in ByteStream SessionWord) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default session word.*

- void [DCM::DeviceControl::SCR\\_GetDefaultSessionWord](#) (in unsigned short BoardNr, out ByteStream SessionWord, out boolean FollowDefault) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default session word.*

- void [DCM::DeviceControl::SCR\\_SetDefaultParityBit](#) (in unsigned short BoardNr, in octet ParityBit) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default parity bit.*

- void [DCM::DeviceControl::SCR\\_GetDefaultParityBit](#) (in unsigned short BoardNr, out octet ParityBit) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default parity bit.*

- void [DCM::DeviceControl::SCR\\_SetDefaultOperatingMode](#) (in unsigned short BoardNr, in enOperatingMode\_t enOperatingMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default operating mode.*

- void [DCM::DeviceControl::SCR\\_GetDefaultOperatingMode](#) (in unsigned short BoardNr, out enOperatingMode\_t enOperatingMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default operating mode.*

- void [DCM::DeviceControl::SCR\\_SetScramblingMode](#) (in IPS\_RefTS\_t RefTS, in enScramblingMode eScramblingMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the scrambling mode on TS.*

- void [DCM::DeviceControl::SCR\\_GetScramblingMode](#) (in IPS\_RefTS\_t RefTS, out enScramblingMode eScramblingMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the scrambling mode on TS.*

- void [DCM::DeviceControl::SCR\\_SetSessionWord](#) (in IPS\_RefTS\_t RefTS, in ByteStream SessionWord) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the session word on TS.*

- void [DCM::DeviceControl::SCR\\_GetSessionWord](#) (in IPS\_RefTS\_t RefTS, out ByteStream SessionWord, out boolean FollowDefault) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the session word on TS.*

- void [DCM::DeviceControl::SCR\\_SetParityBit](#) (in IPS\_RefTS\_t RefTS, in octet ParityBit) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the parity bit on TS.*

- void [DCM::DeviceControl::SCR\\_GetParityBit](#) (in IPS\_RefTS\_t RefTS, out octet ParityBit) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the parity bit on TS.*

- void [DCM::DeviceControl::SCR\\_SetOperatingMode](#) (in IPS\_RefTS\_t RefTS, in enOperatingMode\_t enOperatingMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the operating mode on TS.*

- void [DCM::DeviceControl::SCR\\_GetOperatingMode](#) (in IPS\_RefTS\_t RefTS, out enOperatingMode\_t enOperatingMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)



*Get the operating mode on TS.*

- void [DCM::DeviceControl::SCR\\_StartBissScrambling](#) (in IPS\_RefTS\_t RefTS, in SidList\_t lstSIDs, in PidList\_t lstPIDs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Start BISS scrambling/descrambling on a TS.*

- void [DCM::DeviceControl::SCR\\_StopBissScrambling](#) (in IPS\_RefTS\_t RefTS, in SidList\_t lstSIDs, in PidList\_t lstPIDs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Stop BISS scrambling/descrambling on a TS.*

- void [DCM::DeviceControl::SCR\\_GetBissScrambled](#) (in IPS\_RefTS\_t RefTS, out SidList\_t lstSIDs, out PidList\_t lstPIDs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get BISS scrambled/descrambled services on a TS.*

### 8.63.1 Detailed Description

This module contains types, enums and methods related to BISS scrambling.

### 8.63.2 Typedef Documentation

#### 8.63.2.1 typedef sequence<unsigned short> DCM::DeviceControl::PidList\_t

Definition at line 27117 of file DCM.idl.

### 8.63.3 Enumeration Type Documentation

#### 8.63.3.1 enum DCM::DeviceControl::enEncryptionAlgorithm

Scrambling algorithm.

#### Version

release 8.9

#### Enumerator:

**eCSA\_Encryption** CSA encryption.

**eDES\_Encryption** DES encryption.

**eEncryptionAlgorithm\_Reserved2** Reserved for future use.

**eEncryptionAlgorithm\_Reserved3** Reserved for future use.

**eEncryptionAlgorithm\_Reserved4** Reserved for future use.

**eEncryptionAlgorithm\_Reserved5** Reserved for future use.

**eEncryptionAlgorithm\_Reserved6** Reserved for future use.

**eEncryptionAlgorithm\_Reserved7** Reserved for future use.

**eEncryptionAlgorithm\_Reserved8** Reserved for future use.

**eEncryptionAlgorithm\_Reserved9** Reserved for future use.

**eEncryptionAlgorithm\_Reserved10** Reserved for future use.

Definition at line 27070 of file DCM.idl.

**8.63.3.2 enum DCM::DeviceControl::enOperatingMode\_t**

Operating mode (PowerVu specific).

**Version**

release 8.9 - only Simulcrypt mode supported  
release 9.0

**Enumerator:**

**ePowerVu** PowerVu Standard (as D9140 replacement)  
**ePowerVuSimulcrypt** PowerVu Simulcrypt.  
**eSimulcrypt** Simulcrypt.  
**eOperatingMode\_Reserved4** Reserved for future use.  
**eOperatingMode\_Reserved5** Reserved for future use.

Definition at line 27105 of file DCM.idl.

**8.63.3.3 enum DCM::DeviceControl::enScramblingAction**

Scrambling action.

**Enumerator:**

**eScrambling** Scrambling mode.  
**eDescrambling** Descrambling mode.

Definition at line 27086 of file DCM.idl.

**8.63.3.4 enum DCM::DeviceControl::enScramblingMode**

Scrambling mode.

**Enumerator:**

**eDvbScrambling** DVB Simulcrypt scrambling.  
**eBissScrambling** BISS scrambling (BISS mode 1 and fixed CW)

Definition at line 27093 of file DCM.idl.

**8.63.4 Function Documentation**

**8.63.4.1 void DCM::DeviceControl::SCR\_GetBissScrambled ( in IPS\_RefTS\_t RefTS, out SidList\_t lstSIDs, out PidList\_t lstPIDs ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Get BISS scrambled/descrambled services on a TS.

**Parameters**

|     |         |                                                         |
|-----|---------|---------------------------------------------------------|
| in  | RefTS   | TS on which to apply call                               |
| out | lstSIDs | list of services (SID) configured for BISS scrambling   |
| out | lstPIDs | list of components (PID) configured for BISS scrambling |

Depending on the board level scrambling/descrambling mode, this will return all BISS scrambled or BISS descrambled services.

#### Note

The parameter `lstPIDs` is not used so far, but is just present to allow future extensions (supporting BISS-like component scrambling).

#### Exceptions

|                       |                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                       |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• RefTS invalid</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                              |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                     |

#### Version

release 6.0

release 8.0 - action will return BISS descrambled services as well

**8.63.4.2** void DCM::DeviceControl::SCR\_GetDefaultOperatingMode ( in unsigned short *BoardNr*, out *enOperatingMode\_t enOperatingMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default operating mode.

#### Parameters

|     |                         |                                       |
|-----|-------------------------|---------------------------------------|
| in  | <i>BoardNr</i>          | board number on which to apply call   |
| out | <i>enOperating-Mode</i> | default operating mode on TS creation |

#### Exceptions

|                       |                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                     |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range [0, n]</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                   |

#### Version

release 8.9

**8.63.4.3** void DCM::DeviceControl::SCR\_GetDefaultParityBit ( in unsigned short *BoardNr*, out octet *ParityBit* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default parity bit.

**Parameters**

|     |                  |                                     |
|-----|------------------|-------------------------------------|
| in  | <i>BoardNr</i>   | board number on which to apply call |
| out | <i>ParityBit</i> | default parity bit on TS creation   |

**Exceptions**

|                       |                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                   |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>BoardNr out of range [0, n]</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                          |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                 |

**Version**

release 6.0

**8.63.4.4** void DCM::DeviceControl::SCR\_GetDefaultScramblingMode ( in unsigned short *BoardNr*, out enScramblingMode *eScramblingMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default scrambling mode.

**Parameters**

|     |                         |                                        |
|-----|-------------------------|----------------------------------------|
| in  | <i>BoardNr</i>          | board number on which to apply call    |
| out | <i>eScrambling-Mode</i> | default scrambling mode on TS creation |

**Exceptions**

|                       |                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                   |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>BoardNr out of range [0, n]</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                          |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                 |

**Version**

release 6.0

**8.63.4.5** void DCM::DeviceControl::SCR\_GetDefaultSessionWord ( in unsigned short *BoardNr*, out ByteStream *SessionWord*, out boolean *FollowDefault* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default session word.

**Parameters**

|     |                      |                                               |
|-----|----------------------|-----------------------------------------------|
| in  | <i>BoardNr</i>       | board number on which to apply call           |
| out | <i>SessionWord</i>   | default session word on TS creation           |
| out | <i>FollowDefault</i> | indicate if factory default session word used |

**Note**

For security reasons, the SessionWord parameter will contain the factory default session word (and not the configured one)!

**Exceptions**

|                       |                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                               |
| <i>OpNotSucceeded</i> | when a general failure occurs (e.g. BoardNr out of range [0, n])                                                                        |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                      |
| <i>OpNotSupported</i> | <ul style="list-style-type: none"> <li>• when called on mainboard</li> <li>• when call not supported yet on running software</li> </ul> |

**Version**

release 8.2

**8.63.4.6** void DCM::DeviceControl::SCR\_GetEncryptionAlgorithm ( in unsigned short *BoardNr*, out enEncryptionAlgorithm *eEncryptionAlgorithm* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the encryption algorithm.

**Parameters**

|     |                              |                                     |
|-----|------------------------------|-------------------------------------|
| in  | <i>BoardNr</i>               | board number on which to apply call |
| out | <i>eEncryption-Algorithm</i> | encryption algorithm (firmware)     |

**Exceptions**

|                       |                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                     |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range [0, n]</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                   |

**Version**

release 8.9

**8.63.4.7** void DCM::DeviceControl::SCR\_GetOperatingMode ( in IPS\_RefTS\_t *RefTS*, out enOperatingMode\_t *enOperatingMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the operating mode on TS.

**Parameters**

|     |                         |                           |
|-----|-------------------------|---------------------------|
| in  | <i>RefTS</i>            | TS on which to apply call |
| out | <i>enOperating-Mode</i> | new operating mode for TS |

**Exceptions**

|                       |                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                       |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• RefTS invalid</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                              |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                     |

**Version**

release 8.9

**8.63.4.8** void DCM::DeviceControl::SCR\_GetParityBit ( in IPS\_RefTS\_t *RefTS*, out octet *ParityBit* )  
 raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the parity bit on TS.

**Parameters**

|     |                  |                           |
|-----|------------------|---------------------------|
| in  | <i>RefTS</i>     | TS on which to apply call |
| out | <i>ParityBit</i> | parity bit on TS          |

**Exceptions**

|                       |                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                       |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• RefTS invalid</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                              |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                     |

**Version**

release 6.0

**8.63.4.9** void DCM::DeviceControl::SCR\_GetScramblingAction ( in unsigned short *BoardNr*, out enScramblingAction *eScramblingAction* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the scrambling/descrambling mode.

**Parameters**

|     |                           |                                     |
|-----|---------------------------|-------------------------------------|
| in  | <i>BoardNr</i>            | board number on which to apply call |
| out | <i>eScrambling-Action</i> | scrambling/descrambling mode        |

**Exceptions**

|                       |                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                   |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>BoardNr out of range [0, n]</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                          |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                 |

**Version**

release 8.0

**8.63.4.10** void DCM::DeviceControl::SCR\_GetScramblingMode ( in IPS\_RefTS\_t *RefTS*, out enScramblingMode *eScramblingMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the scrambling mode on TS.

**Parameters**

|     |                         |                           |
|-----|-------------------------|---------------------------|
| in  | <i>RefTS</i>            | TS on which to apply call |
| out | <i>eScrambling-Mode</i> | scrambling mode on TS     |

**Exceptions**

|                       |                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                     |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>RefTS invalid</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                            |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                   |

**Version**

release 6.0

**8.63.4.11** void DCM::DeviceControl::SCR\_GetSessionWord ( in IPS\_RefTS\_t *RefTS*, out ByteStream *SessionWord*, out boolean *FollowDefault* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the session word on TS.

**Parameters**

|     |                      |                                               |
|-----|----------------------|-----------------------------------------------|
| in  | <i>RefTS</i>         | TS on which to apply call                     |
| out | <i>SessionWord</i>   | session word on TS                            |
| out | <i>FollowDefault</i> | indicate if factory default session word used |

**Note**

For security reasons, the SessionWord parameter will contain the factory default session word (and not the configured one)!

**Exceptions**

|                       |                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                               |
| <i>OpNotSucceeded</i> | when a general failure occurs (e.g. RefTS invalid)                                                                                      |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                      |
| <i>OpNotSupported</i> | <ul style="list-style-type: none"> <li>• when called on mainboard</li> <li>• when call not supported yet on running software</li> </ul> |

**Version**

release 8.2

**8.63.4.12** void DCM::DeviceControl::SCR\_SetDefaultOperatingMode ( in unsigned short *BoardNr*, in enOperatingMode\_t *enOperatingMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default operating mode.

**Parameters**

|    |                         |                                       |
|----|-------------------------|---------------------------------------|
| in | <i>BoardNr</i>          | board number on which to apply call   |
| in | <i>enOperating-Mode</i> | default operating mode on TS creation |

**Exceptions**

|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                                             |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range [0, n]</li> <li>• enOperatingMode out of range</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                                    |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                                           |

**Version**

release 8.9

**8.63.4.13** void DCM::DeviceControl::SCR\_SetDefaultParityBit ( in unsigned short *BoardNr*, in octet *ParityBit* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default parity bit.



**Parameters**

|    |                  |                                     |
|----|------------------|-------------------------------------|
| in | <i>BoardNr</i>   | board number on which to apply call |
| in | <i>ParityBit</i> | default parity bit on TS creation   |

**Exceptions**

|                       |                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                                              |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range [0, n]</li> <li>• ParityBit out of range [0, 1]</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                                     |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                                            |

**Version**

release 6.0

**8.63.4.14** void DCM::DeviceControl::SCR\_SetDefaultScramblingMode ( in unsigned short *BoardNr*, in enScramblingMode *eScramblingMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default scrambling mode.

**Parameters**

|    |                         |                                        |
|----|-------------------------|----------------------------------------|
| in | <i>BoardNr</i>          | board number on which to apply call    |
| in | <i>eScrambling-Mode</i> | default scrambling mode on TS creation |

**Exceptions**

|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                                             |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range [0, n]</li> <li>• eScramblingMode out of range</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                                    |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                                           |

**Version**

release 6.0

**8.63.4.15** void DCM::DeviceControl::SCR\_SetDefaultSessionWord ( in unsigned short *BoardNr*, in ByteStream *SessionWord* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default session word.

**Parameters**

|    |                    |                                     |
|----|--------------------|-------------------------------------|
| in | <i>BoardNr</i>     | board number on which to apply call |
| in | <i>SessionWord</i> | default session word on TS creation |

**Exceptions**

|                       |                                                                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                                                             |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range [0, n]</li> <li>• length of SessionWord different from 6 bytes</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                                                    |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                                                           |

**Version**

release 6.0

**8.63.4.16** void DCM::DeviceControl::SCR\_SetEncryptionAlgorithm ( in unsigned short *BoardNr*, in enEncryptionAlgorithm *eEncryptionAlgorithm* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the encryption algorithm.

**Parameters**

|    |                             |                                     |
|----|-----------------------------|-------------------------------------|
| in | <i>BoardNr</i>              | board number on which to apply call |
| in | <i>eEncryptionAlgorithm</i> | encryption algorithm (firmware)     |

**Note**

A reboot is required to apply the new scrambling algorithm.

**Exceptions**

|                       |                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                                                           |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range</li> <li>• eEncryptionAlgorithm out of range</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                                  |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                                                                 |

**Version**

release 8.9

**8.63.4.17** void DCM::DeviceControl::SCR\_SetOperatingMode ( in IPS\_RefTS\_t *RefTS*, in enOperatingMode\_t *enOperatingMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the operating mode on TS.

**Parameters**

|    |                         |                           |
|----|-------------------------|---------------------------|
| in | <i>RefTS</i>            | TS on which to apply call |
| in | <i>enOperating-Mode</i> | new operating mode for TS |

**Exceptions**

|                       |                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                               |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• RefTS invalid</li> <li>• enOperatingMode out of range</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                      |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                             |

**Version**

release 8.9

**8.63.4.18** void DCM::DeviceControl::SCR\_SetParityBit ( in IPS\_RefTS\_t *RefTS*, in octet *ParityBit* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the parity bit on TS.

**Parameters**

|    |                  |                           |
|----|------------------|---------------------------|
| in | <i>RefTS</i>     | TS on which to apply call |
| in | <i>ParityBit</i> | new parity bit for TS     |

**Exceptions**

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                                |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• RefTS invalid</li> <li>• ParityBit out of range [0, 1]</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                       |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                              |

**Version**

release 6.0

**8.63.4.19** void DCM::DeviceControl::SCR\_SetScramblingAction ( in unsigned short *BoardNr*, in enScramblingAction *eScramblingAction* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the scrambling/descrambling mode.

**Parameters**

|    |                           |                                     |
|----|---------------------------|-------------------------------------|
| in | <i>BoardNr</i>            | board number on which to apply call |
| in | <i>eScrambling-Action</i> | scrambling/descrambling mode        |

**Note**

Changing the scrambling/descrambling mode will release all scrambling licenses on the board and will reset the services set for BISS scrambling/descrambling. The session word and parity bit on the TS will still remain unchanged.

**Exceptions**

|                       |                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                                               |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range [0, n]</li> <li>• eScramblingAction out of range</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                                      |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                                             |

**Version**

release 8.0

**8.63.4.20** void DCM::DeviceControl::SCR\_SetScramblingMode ( in IPS\_RefTS\_t *RefTS*, in enScramblingMode *eScramblingMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the scrambling mode on TS.

**Parameters**

|    |                         |                            |
|----|-------------------------|----------------------------|
| in | <i>RefTS</i>            | TS on which to apply call  |
| in | <i>eScrambling-Mode</i> | new scrambling mode for TS |

**Note**

Changing the scrambling mode will release all scrambling licenses on the TS and will reset the services set for BISS scrambling. The session word and parity bit on the TS will still remain unchanged.

**Exceptions**

|                       |                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                               |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• RefTS invalid</li> <li>• eScramblingMode out of range</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                      |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                             |

**Version**

release 6.0

release 8.0 reset TS specific BISS settings

**8.63.4.21** void DCM::DeviceControl::SCR\_SetSessionWord ( in IPS\_RefTS\_t *RefTS*, in ByteStream *SessionWord* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the session word on TS.

**Parameters**

|    |                    |                           |
|----|--------------------|---------------------------|
| in | <i>RefTS</i>       | TS on which to apply call |
| in | <i>SessionWord</i> | new session word for TS   |

**Exceptions**

|                       |                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                                               |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• RefTS invalid</li> <li>• length of SessionWord different from 6 bytes</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                                      |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                                             |

**Version**

release 6.0

**8.63.4.22** void DCM::DeviceControl::SCR\_StartBissScrambling ( in IPS\_RefTS\_t *RefTS*, in SidList\_t *lstSIDs*, in PidList\_t *lstPIDs* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Start BISS scrambling/descrambling on a TS.

**Parameters**

|    |                |                                                       |
|----|----------------|-------------------------------------------------------|
| in | <i>RefTS</i>   | TS on which to apply call                             |
| in | <i>lstSIDs</i> | list of services (SID) to start BISS scrambling for   |
| in | <i>lstPIDs</i> | list of components (PID) to start BISS scrambling for |

Depending on the board level scrambling/descrambling mode, this will start BISS scrambling or BISS descrambling for the specified services.

#### Remarks

- The setting (SID's to scramble) will be applied no matter what mode (DVB or BISS) the TS is configured.
  - The setting (SID to scramble) will be changed automatically when the SID of the corresponding service changes.
  - the setting (SID to scramble) will be removed automatically when the corresponding service is removed.

#### Note

The parameter *lstPIDs* is not used so far, but is just present to allow future extensions (supporting BISS-like component scrambling).

#### Exceptions

|                       |                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                                                  |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• RefTS invalid</li> <li>• invalid SID in list (service not present on TS)</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                                         |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                                                |

#### Version

release 6.0  
release 8.0 - action will start BISS descrambling as well

**8.63.4.23** void DCM::DeviceControl::SCR\_StopBissScrambling ( in IPS\_RefTS\_t *RefTS*, in SidList\_t *lstSIDs*, in PidList\_t *lstPIDs* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Stop BISS scrambling/descrambling on a TS.

#### Parameters

|    |                |                                                      |
|----|----------------|------------------------------------------------------|
| in | <i>RefTS</i>   | TS on which to apply call                            |
| in | <i>lstSIDs</i> | list of services (SID) to stop BISS scrambling for   |
| in | <i>lstPIDs</i> | list of components (PID) to stop BISS scrambling for |

Depending on the board level scrambling/descrambling mode, this will stop BISS scrambling or BISS descrambling for the specified services.

#### Remarks

An empty list (*lstSIDs*) will stop scrambling for all services.

**Note**

The parameter `lstPIDs` is not used so far, but is just present to allow future extensions (supporting BISS-like component scrambling).

**Exceptions**

|                       |                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                                               |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"><li>• RefTS invalid</li><li>• invalid SID in list (service not present on TS)</li></ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                                      |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                                             |

**Version**

release 6.0

release 8.0 - action will stop BISS descrambling as well

## 8.64 Tier Based Scrambling

This module contains types, enums and methods related to tier based scrambling.

### Classes

- struct `DCM::DeviceControl::AC_t`  
*Access Criteria.*
- struct `DCM::DeviceControl::TierAC_t`  
*Access criteria for tier based scrambling.*
- struct `DCM::DeviceControl::TierData_t`  
*Tier data.*
- struct `DCM::DeviceControl::TS_Tier_t`  
*Tier based settings.*

### Typedefs

- typedef `sequence< TS_Tier_t > DCM::DeviceControl::TS_Tier_List_t`  
*A sequence of `TS_Tier_t` entries.*

### Enumerations

- enum `DCM::DeviceControl::enScramblingMode_V2` { `DCM::DeviceControl::eDvbScrambling_V2`, `DCM::DeviceControl::eBissScrambling_V2`, `DCM::DeviceControl::eTierBasedScrambling_V2`, `DCM::DeviceControl::eScramblingMode_V2_Reserved4`, `DCM::DeviceControl::eScramblingMode_V2_Reserved5`, `DCM::DeviceControl::eScramblingMode_V2_Reserved6` }  
*Scrambling mode.*

### Functions

- void `DCM::DeviceControl::SCR_SetDefaultScramblingMode_V2` (in unsigned short BoardNr, in `enScramblingMode_V2 eScramblingMode`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the default scrambling mode.*
- void `DCM::DeviceControl::SCR_GetDefaultScramblingMode_V2` (in unsigned short BoardNr, out `enScramblingMode_V2 eScramblingMode`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the default scrambling mode.*
- void `DCM::DeviceControl::SCR_SetDefaultScramblingEnabled` (in unsigned short BoardNr, in boolean bEnable) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Default enable scrambling behavior for services.*
- void `DCM::DeviceControl::SCR_GetDefaultScramblingEnabled` (in unsigned short BoardNr, out boolean bEnabled) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default enable scrambling behavior for services.*
- void `DCM::DeviceControl::SCR_SetScramblingMode_V2` (in `IPS_RefTS_t RefTS`, in `enScramblingMode_V2 eScramblingMode`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the scrambling mode on TS.*



- void [DCM::DeviceControl::SCR\\_GetScramblingMode\\_V2](#) (in IPS\_RefTS\_t RefTS, out enScramblingMode\_V2 eScramblingMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the scrambling mode on TS.*

- void [DCM::DeviceControl::SCR\\_GetTierList](#) (in unsigned short BoardNr, out IdList TierIds) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get list of configured tiers.*

- void [DCM::DeviceControl::SCR\\_CreateTier](#) (in unsigned short BoardNr, out unsigned long TierId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Create tier.*

- void [DCM::DeviceControl::SCR\\_DeleteTier](#) (in unsigned short BoardNr, in unsigned long TierId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete tier.*

- void [DCM::DeviceControl::SCR\\_SetTierData](#) (in unsigned short BoardNr, in TierData\_t TierData) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Configure access criteria for tier.*

- void [DCM::DeviceControl::SCR\\_GetTierData](#) (in unsigned short BoardNr, in unsigned long TierId, out TierData\_t TierData) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get configured access criteria for tier.*

- void [DCM::DeviceControl::SCR\\_SetDefaultTier](#) (in unsigned short BoardNr, in unsigned long TierId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default tier.*

- void [DCM::DeviceControl::SCR\\_GetDefaultTier](#) (in unsigned short BoardNr, out unsigned long TierId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default tier.*

- void [DCM::DeviceControl::SCR\\_SetTier](#) (in IPS\_RefTS\_t RefTS, in unsigned long TierId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set tier for TS.*

- void [DCM::DeviceControl::SCR\\_GetTier](#) (in IPS\_RefTS\_t RefTS, out unsigned long TierId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get tier for TS.*

- void [DCM::DeviceControl::SCR\\_SetScramblingEnabled](#) (in IPS\_Service\_t RefSvc, in boolean b-Enable) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Enable scrambling for service.*

- void [DCM::DeviceControl::SCR\\_GetScramblingEnabled](#) (in IPS\_Service\_t RefSvc, out boolean b-Enabled) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get scrambling enabled status for service.*

## Variables

- const unsigned long [DCM::DeviceControl::INVALID\\_TIER\\_ID](#) = 0xffffffff

*Invalid tier\_id.*

### 8.64.1 Detailed Description

This module contains types, enums and methods related to tier based scrambling.

## 8.64.2 Typedef Documentation

## 8.64.2.1 typedef sequence&lt;TS\_Tier\_t&gt; DCM::DeviceControl::TS\_Tier\_List\_t

A sequence of [TS\\_Tier\\_t](#) entries.

Definition at line 27661 of file DCM.idl.

## 8.64.3 Enumeration Type Documentation

## 8.64.3.1 enum DCM::DeviceControl::enScramblingMode\_V2

Scrambling mode.

Enumerator:

*eDvbScrambling\_V2* DVB simulcrypt scrambling.

*eBissScrambling\_V2* BISS scrambling (BISS mode 1 and fixed CW)

*eTierBasedScrambling\_V2* Tier based scrambling (share ECM across TS's)

*eScramblingMode\_V2\_Reserved4* Reserved for future use.

*eScramblingMode\_V2\_Reserved5* Reserved for future use.

*eScramblingMode\_V2\_Reserved6* Reserved for future use.

Definition at line 27621 of file DCM.idl.

## 8.64.4 Function Documentation

8.64.4.1 void DCM::DeviceControl::SCR\_CreateTier ( in unsigned short *BoardNr*, out unsigned long *TierId* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Create tier.

## Parameters

|     |                |                                                   |
|-----|----------------|---------------------------------------------------|
| in  | <i>BoardNr</i> | board on which to apply call                      |
| out | <i>TierId</i>  | tier_id (unique identifier) for newly create tier |

## Exceptions

|                       |                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                                                     |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>BoardNr out of range</li> <li>Maximum number of tiers reached</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                            |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                                                           |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.2** void DCM::DeviceControl::SCR\_DeleteTier ( in unsigned short *BoardNr*, in unsigned long *TierId* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete tier.

**Parameters**

|    |                |                                               |
|----|----------------|-----------------------------------------------|
| in | <i>BoardNr</i> | board on which to apply call                  |
| in | <i>TierId</i>  | tier_id (unique identifier) of tier to remove |

**Exceptions**

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                                        |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range</li> <li>• Invalid TierId</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                               |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                                              |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.3** void DCM::DeviceControl::SCR\_GetDefaultScramblingEnabled ( in unsigned short *BoardNr*, out boolean *bEnabled* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get default enable scrambling behavior for services.

**Parameters**

|     |                 |                                     |
|-----|-----------------|-------------------------------------|
| in  | <i>BoardNr</i>  | board number on which to apply call |
| out | <i>bEnabled</i> | enabled or disabled                 |

**Exceptions**

|                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                              |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                     |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                    |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.4** void DCM::DeviceControl::SCR\_GetDefaultScramblingMode\_V2 ( in unsigned short *BoardNr*, out enScramblingMode\_V2 *eScramblingMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default scrambling mode.

**Parameters**

|     |                         |                                        |
|-----|-------------------------|----------------------------------------|
| in  | <i>BoardNr</i>          | board number on which to apply call    |
| out | <i>eScrambling-Mode</i> | default scrambling mode on TS creation |

**Exceptions**

|                       |                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                     |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range [0, n]</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                            |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                   |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.5** void DCM::DeviceControl::SCR\_GetDefaultTier ( in unsigned short *BoardNr*, out unsigned long *TierId* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the default tier.

**Parameters**

|     |                |                                                             |
|-----|----------------|-------------------------------------------------------------|
| in  | <i>BoardNr</i> | board on which to apply call                                |
| out | <i>TierId</i>  | default tier on TS creation (invalid if no tier configured) |

**Exceptions**

|                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                              |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                     |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                    |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.6** void DCM::DeviceControl::SCR\_GetScramblingEnabled ( in IPS\_Service\_t *RefSvc*, out boolean *bEnabled* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get scrambling enabled status for service.

#### Parameters

|     |                 |                                          |
|-----|-----------------|------------------------------------------|
| in  | <i>RefSvc</i>   | service to enable/disable scrambling for |
| out | <i>bEnabled</i> | enabled or disabled                      |

#### Exceptions

|                       |                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IOP processing                                                                                     |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>BoardNr out of range</li> <li>Invalid RefSvc</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                           |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                                          |

#### Note

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.7** void DCM::DeviceControl::SCR\_GetScramblingMode\_V2 ( in IPS\_RefTS\_t *RefTS*, out enScramblingMode\_V2 *eScramblingMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the scrambling mode on TS.

#### Parameters

|     |                         |                           |
|-----|-------------------------|---------------------------|
| in  | <i>RefTS</i>            | TS on which to apply call |
| out | <i>eScrambling-Mode</i> | scrambling mode on TS     |

#### Exceptions

|                       |                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                     |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>RefTS invalid</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                            |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                   |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.8** void DCM::DeviceControl::SCR\_GetTier ( in IPS\_RefTS\_t *RefTS*, out unsigned long *TierId* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get tier for TS.

**Parameters**

|     |               |                           |
|-----|---------------|---------------------------|
| in  | <i>RefTS</i>  | TS on which to apply call |
| out | <i>TierId</i> | tier that TS belongs to   |

**Exceptions**

|                       |                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                                       |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range</li> <li>• Invalid RefTS</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                              |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                                             |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.9** void DCM::DeviceControl::SCR\_GetTierData ( in unsigned short *BoardNr*, in unsigned long *TierId*, out TierData\_t *TierData* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get configured access criteria for tier.

**Parameters**

|     |                 |                               |
|-----|-----------------|-------------------------------|
| in  | <i>BoardNr</i>  | board on which to apply call  |
| in  | <i>TierId</i>   | tier to get configuration for |
| out | <i>TierData</i> | tier configuration            |

**Exceptions**

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                                        |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range</li> <li>• Invalid TierId</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                               |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                                              |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.10** void DCM::DeviceControl::SCR\_GetTierList ( in unsigned short *BoardNr*, out IdList *TierIds* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get list of configured tiers.

**Parameters**

|     |                |                              |
|-----|----------------|------------------------------|
| in  | <i>BoardNr</i> | board on which to apply call |
| out | <i>TierIds</i> | list of tiers (tier_id)      |

**Exceptions**

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                            |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>BoardNr out of range</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                   |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                  |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.11** void DCM::DeviceControl::SCR\_SetDefaultScramblingEnabled ( in unsigned short *BoardNr*, in boolean *bEnable* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Default enable scrambling behavior for services.

**Parameters**

|    |                |                                     |
|----|----------------|-------------------------------------|
| in | <i>BoardNr</i> | board number on which to apply call |
| in | <i>bEnable</i> | enable or disable                   |

**Exceptions**

|                       |                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                            |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>BoardNr out of range</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                   |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                  |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.12** void DCM::DeviceControl::SCR\_SetDefaultScramblingMode\_V2 ( in unsigned short *BoardNr*, in enScramblingMode\_V2 *eScramblingMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default scrambling mode.

#### Parameters

|    |                        |                                        |
|----|------------------------|----------------------------------------|
| in | <i>BoardNr</i>         | board number on which to apply call    |
| in | <i>eScramblingMode</i> | default scrambling mode on TS creation |

#### Exceptions

|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                                             |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range [0, n]</li> <li>• eScramblingMode out of range</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                                    |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                                           |

#### Note

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.13** void DCM::DeviceControl::SCR\_SetDefaultTier ( in unsigned short *BoardNr*, in unsigned long *TierId* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the default tier.

#### Parameters

|    |                |                              |
|----|----------------|------------------------------|
| in | <i>BoardNr</i> | board on which to apply call |
| in | <i>TierId</i>  | default tier on TS creation  |

#### Exceptions

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                                        |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range</li> <li>• Invalid TierId</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                               |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                                              |

#### Note

not implemented yet, so OpNotSupported will always be raised.



**8.64.4.14** void DCM::DeviceControl::SCR\_SetScramblingEnabled ( in IPS\_Service\_t *RefSvc*, in boolean *bEnable* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Enable scrambling for service.

#### Parameters

|    |                |                                          |
|----|----------------|------------------------------------------|
| in | <i>RefSvc</i>  | service to enable/disable scrambling for |
| in | <i>bEnable</i> | enable or disable                        |

#### Exceptions

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IOP processing                                                                                         |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range</li> <li>• Invalid RefSvc</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                               |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                                              |

#### Note

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.15** void DCM::DeviceControl::SCR\_SetScramblingMode\_V2 ( in IPS\_RefTS\_t *RefTS*, in enScramblingMode\_V2 *eScramblingMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the scrambling mode on TS.

#### Parameters

|    |                         |                            |
|----|-------------------------|----------------------------|
| in | <i>RefTS</i>            | TS on which to apply call  |
| in | <i>eScrambling-Mode</i> | new scrambling mode for TS |

#### Note

Changing the scrambling mode will release all scrambling licenses on the TS and will reset the services set for BISS scrambling. The session word and parity bit on the TS will still remain unchanged.

#### Exceptions

|                       |                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | when it takes too long to handle the call                                                                                               |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• RefTS invalid</li> <li>• eScramblingMode out of range</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                      |
| <i>OpNotSupported</i> | when called on mainboard or when call not supported yet on running software                                                             |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.16** void DCM::DeviceControl::SCR\_SetTier ( in IPS\_RefTS\_t *RefTS*, in unsigned long *TierId* )  
raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set tier for TS.

**Parameters**

|    |               |                           |
|----|---------------|---------------------------|
| in | <i>RefTS</i>  | TS on which to apply call |
| in | <i>TierId</i> | tier to be applied        |

**Exceptions**

|                       |                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                                                                 |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range</li> <li>• Invalid RefTS</li> <li>• Invalid TierId</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                                                        |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                                                                       |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.4.17** void DCM::DeviceControl::SCR\_SetTierData ( in unsigned short *BoardNr*, in TierData\_t *TierData* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Configure access criteria for tier.

**Parameters**

|    |                 |                              |
|----|-----------------|------------------------------|
| in | <i>BoardNr</i>  | board on which to apply call |
| in | <i>TierData</i> | tier configuration           |

**Exceptions**

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                                        |
| <i>OpNotSucceeded</i> | when a general failure occurs <ul style="list-style-type: none"> <li>• BoardNr out of range</li> <li>• Invalid TierId</li> </ul> |
| <i>OpNotAllowed</i>   | when not logged on                                                                                                               |
| <i>OpNotSupported</i> | when called on mainboard or when call not yet supported on running software version                                              |

**Note**

not implemented yet, so OpNotSupported will always be raised.

**8.64.5 Variable Documentation****8.64.5.1 `const unsigned long DCM::DeviceControl::INVALID_TIER_ID = 0xffffffff`**

Invalid tier\_id.

Definition at line 27618 of file DCM.idl.

## 8.65 Descrambling

This module contains types, enums and methods related to descrambling on a DRD DVB S2 board.

### Classes

- struct [DCM::DeviceControl::DescrResource\\_t](#)  
*Structure containing identification information about the descrambling resource.*
- struct [DCM::DeviceControl::DescrServiceData\\_t](#)  
*A structure with attributes of the service routed to the descrambler.*
- struct [DCM::DeviceControl::DescrTS\\_Data\\_t](#)  
*Structure with data of a TS added to a descrambler.*
- struct [DCM::DeviceControl::DescrTS\\_Data\\_V2\\_t](#)  
*Structure with data of a TS added to a descrambler.*
- struct [DCM::DeviceControl::DescrTrackingRule\\_t](#)  
*Defines a tracking rule for descrambling, including the BISS session word.*
- struct [DCM::DeviceControl::DescrSvcConfig\\_t](#)  
*Defines how the service is descrambled.*
- struct [DCM::DeviceControl::DescrCAM\\_Cfg\\_t](#)  
*Defines the configuration of the CAM itself.*
- struct [DCM::DeviceControl::DescrCAM\\_Cfg\\_V2\\_t](#)  
*Defines the configuration of the CAM itself.*
- struct [DCM::DeviceControl::DescrCAM\\_BackupCfg\\_t](#)  
*Structure used to configure CAM backup.*
- struct [DCM::DeviceControl::DescrCAM\\_Status\\_t](#)  
*Structure containing information about a CAM.*
- struct [DCM::DeviceControl::DescrBISS\\_Cfg\\_t](#)  
*Configuration of BISS descrambling.*

### Typedefs

- typedef unsigned short [DCM::DeviceControl::DescrId\\_t](#)  
*Identifies a descrambling resource on a board.*
- typedef sequence< [DescrId\\_t](#) > [DCM::DeviceControl::DescrId\\_List\\_t](#)  
*A list of descrambling resource id's.*
- typedef sequence< [DescrResource\\_t](#) > [DCM::DeviceControl::DescrResource\\_List\\_t](#)  
*A list of [DescrResource\\_t](#).*
- typedef sequence< [DescrServiceData\\_t](#) > [DCM::DeviceControl::DescrServiceData\\_List\\_t](#)  
*A list of [DescrServiceData\\_t](#).*
- typedef sequence< [DescrTS\\_Data\\_t](#) > [DCM::DeviceControl::DescrTS\\_Data\\_List\\_t](#)  
*A sequence of [DescrTS\\_Data\\_t](#) entries.*
- typedef sequence< [DescrTS\\_Data\\_V2\\_t](#) > [DCM::DeviceControl::DescrTS\\_Data\\_List\\_V2\\_t](#)  
*A sequence of [DescrTS\\_Data\\_V2\\_t](#) entries.*
- typedef sequence< [DescrTrackingRule\\_t](#) > [DCM::DeviceControl::DescrTrackingRuleList\\_t](#)  
*A sequence of [DescrTrackingRule\\_t](#).*
- typedef sequence< [DescrSvcConfig\\_t](#) > [DCM::DeviceControl::DescrSvcConfig\\_List\\_t](#)
- typedef sequence< [DescrCAM\\_Cfg\\_t](#) > [DCM::DeviceControl::DescrCAM\\_Cfg\\_List\\_t](#)

- typedef sequence < DescrCAM\_Cfg\_V2\_t > [DCM::DeviceControl::DescrCAM\\_Cfg\\_List\\_V2\\_t](#)
- typedef sequence < DescrCAM\_BackupCfg\_t > [DCM::DeviceControl::DescrCAM\\_BackupCfg\\_List\\_t](#)  
*A sequence of [DescrCAM\\_BackupCfg\\_t](#).*
- typedef sequence < DescrCAM\_Status\_t > [DCM::DeviceControl::DescrCAM\\_Status\\_List\\_t](#)  
*A sequence of [DescrCAM\\_Status\\_t](#).*
- typedef sequence < DescrBISS\_Cfg\_t > [DCM::DeviceControl::DescrBISS\\_Cfg\\_List\\_t](#)  
*A sequence of [DescrBISS\\_Cfg\\_t](#).*

### Enumerations

- enum [DCM::DeviceControl::eDescrType\\_t](#) { [DCM::DeviceControl::eDescrType\\_CAM](#), [DCM::DeviceControl::eDescrType\\_BISS](#), [DCM::DeviceControl::eDescrType\\_Reserved1](#), [DCM::DeviceControl::eDescrType\\_Reserved2](#), [DCM::DeviceControl::eDescrType\\_Reserved3](#) }  
*The different descrambling resource types.*
- enum [DCM::DeviceControl::eDescrEnabledMode\\_t](#) { [DCM::DeviceControl::eDescrEnabledMode\\_Disabled](#), [DCM::DeviceControl::eDescrEnabledMode\\_Service](#), [DCM::DeviceControl::eDescrEnabledMode\\_Component](#), [DCM::DeviceControl::eDescrEnabledMode\\_Reserved1](#), [DCM::DeviceControl::eDescrEnabledMode\\_Reserved2](#), [DCM::DeviceControl::eDescrEnabledMode\\_Reserved3](#) }  
*Represents how a service needs to be descrambled.*
- enum [DCM::DeviceControl::eCaPmtListManagement\\_t](#) { [DCM::DeviceControl::eCaPmtListManagement\\_AddDelete](#), [DCM::DeviceControl::eCaPmtListManagement\\_UpdateAll](#), [DCM::DeviceControl::eCaPmtListManagement\\_Reserved1](#), [DCM::DeviceControl::eCaPmtListManagement\\_Reserved2](#), [DCM::DeviceControl::eCaPmtListManagement\\_Reserved3](#) }  
*Represents how CA PMT lists need to be updated towards the CAM.*

### Functions

- void [DCM::DeviceControl::DescrResourceGetL](#) (in unsigned short BoardNr, out DescrResource\_List\_t DescrResourceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieve the list of available descrambling resources for a given board.*
- void [DCM::DeviceControl::DescrResourceSetL](#) (in unsigned short BoardNr, in DescrResource\_List\_t ConfigList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Configure the name of one or more descrambling resources.*
- void [DCM::DeviceControl::DescrServiceAddL](#) (in IPS\_Ref\_t DescramblerRef, in IPS\_RefSvc\_List\_t InputRefSvcList, out IPS\_RefSvc\_List\_t CreatedServicesL) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add a list of services to a descrambling resource.*
- void [DCM::DeviceControl::DescrServiceDeleteL](#) (in unsigned short BoardNr, in IPS\_RefSvc\_List\_t RefSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Removes a list of services from a descrambling resource.*
- void [DCM::DeviceControl::DescrServiceGetL](#) (in IPS\_Ref\_t DescramblerRef, in IPS\_RefSvc\_List\_t RefSvcList, out DescrServiceData\_List\_t ServiceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the list of services on a descrambling resource.*
- void [DCM::DeviceControl::DescrServiceSetL](#) (in unsigned short BoardNr, in DescrServiceData\_List\_t ServiceDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set service details of services on a descrambler.*

- void [DCM::DeviceControl::DescrTS\\_Add](#) (in `IPS_Ref_t DescramblerRef`, in `IPS_RefTS_t RefTsIn`, out `IPS_RefTS_t CreatedTs`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add a TS to a descrambler.*

- void [DCM::DeviceControl::DescrTS\\_DeleteL](#) (in unsigned short `BoardNr`, in `IPS_RefTS_List_t RefTsList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove one or more TS's from a descrambler.*

- void [DCM::DeviceControl::DescrTS\\_GetL](#) (in unsigned short `BoardNr`, in `IPS_RefTS_List_t RefTsList`, out `DescrTS_Data_List_t TsDataList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list of transport streams passed to a descrambler board.*

- void [DCM::DeviceControl::DescrTS\\_GetL\\_V2](#) (in unsigned short `BoardNr`, in `IPS_RefTS_List_t RefTsList`, out `DescrTS_Data_List_V2_t TsDataList`) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the list of transport streams passed to a descrambler board.*

- void [DCM::DeviceControl::DescrTS\\_SetL](#) (in unsigned short `BoardNr`, in `DescrTS_Data_List_t TsDataList`) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set TS details of one or more TS's on a descrambler.*

- void [DCM::DeviceControl::DescrTS\\_SetL\\_V2](#) (in unsigned short `BoardNr`, in `DescrTS_Data_List_V2_t TsDataList`) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported)

*Set TS details of one or more TS's on a descrambler.*

- void [DCM::DeviceControl::DescrEMM\\_AddL](#) (in `IPS_Ref_t DescramblerRef`, in `IPS_RefPidList_t EmmList`) raises (Timeout, OpNotSucceeded, OpNotSupported, OpNotAllowed)

*Add one or more EMM to a descrambler.*

- void [DCM::DeviceControl::DescrEMM\\_DeleteL](#) (in unsigned short `BoardNr`, in `IPS_RefPidList_t EmmList`) raises (Timeout, OpNotSucceeded, OpNotSupported, OpNotAllowed)

*Deletes one or more EMMs routed to a CAM.*

- void [DCM::DeviceControl::DescrEMM\\_GetL](#) (in `IPS_Ref_t DescramblerRef`, out `IPS_RefPidList_t EmmList`) raises (Timeout, OpNotSucceeded, OpNotSupported, OpNotAllowed)

*Retrieve the list of EMMs routed to a CAM.*

- void [DCM::DeviceControl::DescrSvcConfigSetL](#) (in unsigned short `BoardNr`, in `DescrSvcConfig_List_t ConfigList`) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Start descrambling on services / components on the specified virtual TS.*

- void [DCM::DeviceControl::DescrSvcConfigGetL](#) (in `IPS_Ref_t DescramblerRef`, in `IPS_RefSvc_List_t SvcFilter`, out `DescrSvcConfig_List_t ConfigList`) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Returns the services / PIDs for which descrambling is configured.*

- void [DCM::DeviceControl::DescrCAM\\_CfgSetL](#) (in unsigned short `BoardNr`, in `DescrCAM_Cfg_List_t ConfigList`) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded, LicenseError)

*Configures one or more CAMs.*

- void [DCM::DeviceControl::DescrCAM\\_CfgSetL\\_V2](#) (in unsigned short `BoardNr`, in `DescrCAM_Cfg_List_V2_t ConfigList`) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded, LicenseError)

*Configures one or more CAMs.*

- void [DCM::DeviceControl::DescrCAM\\_CfgGetL](#) (in `IPS_Ref_t CamRef`, out `DescrCAM_Cfg_List_t ConfigList`) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieves the configuration of one or more CAMs.*

- void [DCM::DeviceControl::DescrCAM\\_CfgGetL\\_V2](#) (in `IPS_Ref_t CamRef`, out `DescrCAM_Cfg_List_V2_t ConfigList`) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieves the configuration of one or more CAMs.*

- void [DCM::DeviceControl::DescrCAM\\_BackupCfg\\_SetL](#) (in unsigned short BoardNr, in DescrCAM\_BackupCfg\_List\_t BackupConfigL) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Set backup configuration for one or more CAM pairs.*

- void [DCM::DeviceControl::DescrCAM\\_BackupCfg\\_GetL](#) (in unsigned short BoardNr, out DescrCAM\_BackupCfg\_List\_t BackupConfigL) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieve the CAM backup configuration for the given board.*

- void [DCM::DeviceControl::DescrCAM\\_Status\\_GetL](#) (in IPS\_Ref\_t CamRef, out DescrCAM\_Status\_List\_t StatusList) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieves the CAM status and other information.*

- void [DCM::DeviceControl::DescrCAM\\_CLI\\_MMI\\_CLI\\_Cmd](#) (in IPS\_Ref\_t CamRef, in string Request, out string Response) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Sends a command to the command line interface of a CAM.*

- void [DCM::DeviceControl::DescrCAM\\_Reset](#) (in IPS\_Ref\_t CamRef) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Resets the CAM.*

- void [DCM::DeviceControl::DescrBISS\\_CfgSetL](#) (in unsigned short BoardNr, in DescrBISS\_Cfg\_List\_t BissConfigList) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Configure BISS descrambling on the DRD board.*

- void [DCM::DeviceControl::DescrBISS\\_CfgGetL](#) (in IPS\_Ref\_t BissRef, in IPS\_RefTS\_List\_t RefTsFilter, out DescrBISS\_Cfg\_List\_t BissConfigList) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieve BISS descrambling configuration on the DRD board for one or more transport streams.*

### 8.65.1 Detailed Description

This module contains types, enums and methods related to descrambling on a DRD DVB S2 board.

### 8.65.2 Typedef Documentation

#### 8.65.2.1 typedef sequence<DescrBISS\_Cfg\_t> DCM::DeviceControl::DescrBISS\_Cfg\_List\_t

A sequence of [DescrBISS\\_Cfg\\_t](#).

Definition at line 28777 of file DCM.idl.

#### 8.65.2.2 typedef sequence<DescrCAM\_BackupCfg\_t> DCM::DeviceControl::DescrCAM\_BackupCfg\_List\_t

A sequence of [DescrCAM\\_BackupCfg\\_t](#).

Definition at line 28645 of file DCM.idl.

#### 8.65.2.3 typedef sequence<DescrCAM\_Cfg\_t> DCM::DeviceControl::DescrCAM\_Cfg\_List\_t

Definition at line 28517 of file DCM.idl.

#### 8.65.2.4 typedef sequence<DescrCAM\_Cfg\_V2\_t> DCM::DeviceControl::DescrCAM\_Cfg\_List\_V2\_t

Definition at line 28544 of file DCM.idl.

**8.65.2.5 typedef sequence<DescrCAM\_Status\_t> DCM::DeviceControl::DescrCAM\_Status\_List\_t**

A sequence of [DescrCAM\\_Status\\_t](#).

Definition at line 28706 of file DCM.idl.

**8.65.2.6 typedef sequence<DescrId\_t> DCM::DeviceControl::DescrId\_List\_t**

A list of descrambling resource id's.

Definition at line 28012 of file DCM.idl.

**8.65.2.7 typedef unsigned short DCM::DeviceControl::DescrId\_t**

Identifies a descrambling resource on a board.

This id is used to pass services, TS, EMM's to a descrambling resource.

Definition at line 28009 of file DCM.idl.

**8.65.2.8 typedef sequence<DescrResource\_t> DCM::DeviceControl::DescrResource\_List\_t**

A list of [DescrResource\\_t](#).

Definition at line 28037 of file DCM.idl.

**8.65.2.9 typedef sequence<DescrServiceData\_t> DCM::DeviceControl::DescrServiceData\_List\_t**

A list of [DescrServiceData\\_t](#).

Definition at line 28101 of file DCM.idl.

**8.65.2.10 typedef sequence<DescrSvcConfig\_t> DCM::DeviceControl::DescrSvcConfig\_List\_t**

Definition at line 28454 of file DCM.idl.

**8.65.2.11 typedef sequence<DescrTrackingRule\_t> DCM::DeviceControl::DescrTrackingRuleList\_t**

A sequence of [DescrTrackingRule\\_t](#).

Definition at line 28425 of file DCM.idl.

**8.65.2.12 typedef sequence<DescrTS\_Data\_t> DCM::DeviceControl::DescrTS\_Data\_List\_t**

A sequence of [DescrTS\\_Data\\_t](#) entries.

Definition at line 28214 of file DCM.idl.

**8.65.2.13 typedef sequence<DescrTS\_Data\_V2\_t> DCM::DeviceControl::DescrTS\_Data\_List\_V2\_t**

A sequence of [DescrTS\\_Data\\_V2\\_t](#) entries.

Definition at line 28241 of file DCM.idl.

**8.65.3 Enumeration Type Documentation****8.65.3.1 enum DCM::DeviceControl::eCaPmtListManagement\_t**

Represents how CA PMT lists need to be updated towards the CAM.



**Enumerator:**

*eCaPmtListManagement\_AddDelete* Update (add/delete) single CA PMT only.  
*eCaPmtListManagement\_UpdateAll* Update all CA PMT's.  
*eCaPmtListManagement\_Reserved1*  
*eCaPmtListManagement\_Reserved2*  
*eCaPmtListManagement\_Reserved3*

Definition at line 28520 of file DCM.idl.

**8.65.3.2 enum DCM::DeviceControl::eDescrEnabledMode\_t**

Represents how a service needs to be descrambled.

**Enumerator:**

*eDescrEnabledMode\_Disabled* Descrambling disabled.  
*eDescrEnabledMode\_Service* Service level descrambling enabled.  
*eDescrEnabledMode\_Component* Component level descrambling enabled.  
*eDescrEnabledMode\_Reserved1*  
*eDescrEnabledMode\_Reserved2*  
*eDescrEnabledMode\_Reserved3*

Definition at line 28428 of file DCM.idl.

**8.65.3.3 enum DCM::DeviceControl::eDescrType\_t**

The different descrambling resource types.

**Enumerator:**

*eDescrType\_CAM* DVB descrambling via CAM.  
*eDescrType\_BISS* BISS descrambling. Usually only one per board.  
*eDescrType\_Reserved1*  
*eDescrType\_Reserved2*  
*eDescrType\_Reserved3*

Definition at line 28015 of file DCM.idl.

**8.65.4 Function Documentation**

**8.65.4.1 void DCM::DeviceControl::DescrBISS\_CfgGetL ( in IPS\_Ref\_t *BissRef*, in IPS\_RefTS\_List\_t *RefTsFilter*, out DescrBISS\_Cfg\_List\_t *BissConfigList* ) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)**

Retrieve BISS descrambling configuration on the DRD board for one or more transport streams.

If a wildcard is used for BissRef, the RefTsFilter should be empty.

**Parameters**

|     |                       |                                                       |
|-----|-----------------------|-------------------------------------------------------|
| in  | <i>BissRef</i>        | identifies the BISS descrambler. Wildcard is allowed. |
| in  | <i>RefTsFilter</i>    | if not empty, filter result on list of TS references. |
| out | <i>BissConfigList</i> | list of configuration data                            |

**Exceptions**

|                       |                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | request timed out.                                                                                                                                                                                           |
| <i>OpNotAllowed</i>   | not logged on.                                                                                                                                                                                               |
| <i>OpNotSupported</i> | board does not support the operation.                                                                                                                                                                        |
| <i>OpNotSucceeded</i> | - invalid reference in RefTsFilter.<br><ul style="list-style-type: none"> <li>• TS ref in RefTsFilter not consistent with BissRef.</li> <li>• Wildcard used in BissRef but RefTsFilter not empty.</li> </ul> |

**Version**

Release 9.10

**8.65.4.2** void DCM::DeviceControl::DescrBISS\_CfgSetL ( in unsigned short *BoardNr*, in DescrBISS\_Cfg\_List\_t *BissConfigList* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Configure BISS descrambling on the DRD board.

This consists of defining the session word for BISS descrambling. Currently the session word can only be set per TS.

**Parameters**

|    |                       |                            |
|----|-----------------------|----------------------------|
| in | <i>BoardNr</i>        | identifies the board       |
| in | <i>BissConfigList</i> | list of configuration data |

**Exceptions**

|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | request timed out.                                                                                                                                                            |
| <i>OpNotAllowed</i>   | not logged on.                                                                                                                                                                |
| <i>OpNotSupported</i> | board does not support the operation.                                                                                                                                         |
| <i>OpNotSucceeded</i> | - invalid RefTS provided in BissConfigList (e.g. not BISS).<br><ul style="list-style-type: none"> <li>• invalid SessionWord in BissConfigList (e.g. wrong length).</li> </ul> |

**Version**

Release 9.10

**8.65.4.3** void DCM::DeviceControl::DescrCAM\_BackupCfg\_GetL ( in unsigned short *BoardNr*, out DescrCAM\_BackupCfg\_List\_t *BackupConfigL* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Retrieve the CAM backup configuration for the given board.

**Parameters**

|     |                      |                                     |
|-----|----------------------|-------------------------------------|
| in  | <i>BoardNr</i>       | identifies the board.               |
| out | <i>BackupConfigL</i> | list of configuration of CAM pairs. |

**Exceptions**

|                       |                                       |
|-----------------------|---------------------------------------|
| <i>TimeOut</i>        | request timed out.                    |
| <i>OpNotAllowed</i>   | not logged on.                        |
| <i>OpNotSupported</i> | board does not support the operation. |
| <i>OpNotSucceeded</i> | An error occurred.                    |

**Version**

Release 9.0

**8.65.4.4** void DCM::DeviceControl::DescrCAM\_BackupCfg\_SetL ( in unsigned short *BoardNr*, in DescrCAM\_BackupCfg\_List\_t *BackupConfigL* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Set backup configuration for one or more CAM pairs.

If backup is enabled, the main and backup CAM function effectively as a CAM pair. The main CAM is used to pass TS, services and EMMs to. Main and backup CAM reside on the same front-end. The first CAM is the main CAM and the second CAM is the backup CAM, similar to GbE port pairs. Backup will always be done in a non-revertive way: once switched to the backup CAM, the main CAM can only be activated manually. Disabling CAM backup lets each CAM work individually again, hence disables the pair mode.

**Parameters**

|    |                      |                                |
|----|----------------------|--------------------------------|
| in | <i>BoardNr</i>       | identifies the board.          |
| in | <i>BackupConfigL</i> | list of backup configurations. |

**Exceptions**

|                       |                                                                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | request timed out.                                                                                                                                                                                                                     |
| <i>OpNotAllowed</i>   | not logged on.                                                                                                                                                                                                                         |
| <i>OpNotSucceeded</i> | - if wrong or an invalid combination of CAMs are provided. <ul style="list-style-type: none"> <li>• if backup CAM already has TS, services, EMMs routed to it.</li> <li>• if MainCAM is not the first CAM on the front-end.</li> </ul> |
| <i>OpNotSupported</i> | board does not support the operation.                                                                                                                                                                                                  |

**Version**

Release 9.0

**8.65.4.5** void DCM::DeviceControl::DescrCAM\_CfgGetL ( in IPS\_Ref\_t *CamRef*, out DescrCAM\_Cfg\_List\_t *ConfigList* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Retrieves the configuration of one or more CAMs.

**Parameters**

|     |                   |                                              |
|-----|-------------------|----------------------------------------------|
| in  | <i>CamRef</i>     | identifies the CAM. Wildcard is allowed.     |
| out | <i>ConfigList</i> | CAM configuration list (only CAMs included). |

**Exceptions**

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| <i>TimeOut</i>        | request timed out.                                    |
| <i>OpNotAllowed</i>   | not logged in                                         |
| <i>OpNotSupported</i> | if board does not support this function.              |
| <i>OpNotSucceeded</i> | - invalid CamRef.<br>• no CAM found for given CamRef. |

**Version**

Release 9.0

**Deprecated** Since release 12.0, use DescrCAM\_CfgGetL\_V2 instead

**8.65.4.6** void DCM::DeviceControl::DescrCAM\_CfgGetL\_V2 ( in IPS\_Ref\_t *CamRef*, out DescrCAM\_Cfg\_List\_V2\_t *ConfigList* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Retrieves the configuration of one or more CAMs.

**Parameters**

|     |                   |                                              |
|-----|-------------------|----------------------------------------------|
| in  | <i>CamRef</i>     | identifies the CAM. Wildcard is allowed.     |
| out | <i>ConfigList</i> | CAM configuration list (only CAMs included). |

**Exceptions**

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| <i>TimeOut</i>        | request timed out.                                    |
| <i>OpNotAllowed</i>   | not logged in                                         |
| <i>OpNotSupported</i> | if board does not support this function.              |
| <i>OpNotSucceeded</i> | - invalid CamRef.<br>• no CAM found for given CamRef. |

**Version**

Release 12.0

**8.65.4.7** void DCM::DeviceControl::DescrCAM\_CfgSetL ( in unsigned short *BoardNr*, in DescrCAM\_Cfg\_List\_t *ConfigList* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded, LicenseError)

Configures one or more CAMs.

Enabling a CAM requires a license. If the license is not available, a LicenseError is returned and the CAM setting stays disabled. Note: when licenses are reduced and the DCM is rebooted, only CAMs for which a license is available will be enabled. The enabled setting is still enabled in that case but the enabled status will be disabled and a license alarm is triggered. Disabling the CAM will clear the license alarm. This function is executed in a best-effort way (up to the first encountered error).

**Parameters**

|    |                   |                            |
|----|-------------------|----------------------------|
| in | <i>BoardNr</i>    | identifies the board       |
| in | <i>ConfigList</i> | list of CAM configurations |

**Exceptions**

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <i>TimeOut</i>        | request timed out.                                                     |
| <i>OpNotAllowed</i>   | not logged in                                                          |
| <i>OpNotSupported</i> | if board does not support this function.                               |
| <i>OpNotSucceeded</i> | - invalid parameters in ConfigList.<br>• invalid CamRef in ConfigList. |
| <i>LicenseError</i>   | CAM license not available.                                             |

**Version**

Release 9.0

**Deprecated** Since release 12.0, use DescrCAM\_CfgSetL\_V2 instead

**8.65.4.8** void DCM::DeviceControl::DescrCAM\_CfgSetL\_V2 ( in unsigned short *BoardNr*, in DescrCAM\_Cfg\_List\_V2\_t *ConfigList* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded, LicenseError)

Configures one or more CAMs.

Enabling a CAM requires a license. If the license is not available, a LicenseError is returned and the CAM setting stays disabled. Note: when licenses are reduced and the **DCM** is rebooted, only CAMs for which a license is available will be enabled. The enabled setting is still enabled in that case but the enabled status will be disabled and a license alarm is triggered. Disabling the CAM will clear the license alarm. This function is executed in a best-effort way (up to the first encountered error).

**Parameters**

|    |                   |                            |
|----|-------------------|----------------------------|
| in | <i>BoardNr</i>    | identifies the board       |
| in | <i>ConfigList</i> | list of CAM configurations |

**Exceptions**

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <i>TimeOut</i>        | request timed out.                                                     |
| <i>OpNotAllowed</i>   | not logged in                                                          |
| <i>OpNotSupported</i> | if board does not support this function.                               |
| <i>OpNotSucceeded</i> | - invalid parameters in ConfigList.<br>• invalid CamRef in ConfigList. |
| <i>LicenseError</i>   | CAM license not available.                                             |

**Version**

Release 12.0

**8.65.4.9** void DCM::DeviceControl::DescrCAM\_CI\_MMI\_CLI\_Cmd ( in IPS\_Ref\_t *CamRef*, in string *Request*, out string *Response* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Sends a command to the command line interface of a CAM.

Commands are CAM specific. Request is string where command and parameters are separated by SPACE. Response is a string, including in EOL markers. Supported commands:

- menu description : open a menu on a CAM
- choice [param] description : make a menu choice
- close description : close the menu

#### Parameters

|     |                 |                                        |
|-----|-----------------|----------------------------------------|
| in  | <i>CamRef</i>   | Identifies the CAM.                    |
| in  | <i>Request</i>  | The request string to send to the CAM. |
| out | <i>Response</i> | The response of the CAM.               |

#### Exceptions

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| <i>TimeOut</i>        | request timed out.                                |
| <i>OpNotAllowed</i>   | not logged in.                                    |
| <i>OpNotSupported</i> | if board does not support this function.          |
| <i>OpNotSucceeded</i> | invalid CamRef provided or no matching CAM found. |

#### Version

Release 9.10

**8.65.4.10** void DCM::DeviceControl::DescrCAM\_Reset ( in IPS\_Ref\_t *CamRef* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Resets the CAM.

#### Parameters

|    |               |                     |
|----|---------------|---------------------|
| in | <i>CamRef</i> | Identifies the CAM. |
|----|---------------|---------------------|

#### Exceptions

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| <i>TimeOut</i>        | request timed out.                                |
| <i>OpNotAllowed</i>   | not logged in.                                    |
| <i>OpNotSupported</i> | if board does not support this function.          |
| <i>OpNotSucceeded</i> | invalid CamRef provided or no matching CAM found. |

#### Version

Release 9.0

**8.65.4.11** void DCM::DeviceControl::DescrCAM\_Status\_GetL ( in IPS\_Ref\_t *CamRef*, out DescrCAM\_Status\_List\_t *StatusList* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Retrieves the CAM status and other information.

#### Parameters

|     |                   |                                          |
|-----|-------------------|------------------------------------------|
| in  | <i>CamRef</i>     | identifies the CAM. Wildcard is allowed. |
| out | <i>StatusList</i> | list of status information.              |

#### Exceptions

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| <i>TimeOut</i>        | request timed out.                                |
| <i>OpNotAllowed</i>   | not logged in                                     |
| <i>OpNotSupported</i> | if board does not support this function.          |
| <i>OpNotSucceeded</i> | invalid CamRef provided or no matching CAM found. |

#### Version

Release 9.0

**8.65.4.12** void DCM::DeviceControl::DescrEMM\_AddL ( in IPS\_Ref\_t *DescramblerRef*, in IPS\_RefPidList\_t *EmmList* ) raises (TimeOut, OpNotSucceeded, OpNotSupported, OpNotAllowed)

Add one or more EMM to a descrambler.

Only CAMs support adding EMMs.

#### Parameters

|    |                        |                                               |
|----|------------------------|-----------------------------------------------|
| in | <i>Descrambler-Ref</i> | Identifies the descrambler (should be a CAM). |
| in | <i>EmmList</i>         | References of the input EMMs to pass.         |

#### Exceptions

|                       |                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                                                                                                         |
| <i>OpNotAllowed</i>   | not logged in                                                                                                                                                                                     |
| <i>OpNotSupported</i> | if board does not support this function.                                                                                                                                                          |
| <i>OpNotSucceeded</i> | - invalid references are used. <ul style="list-style-type: none"> <li>• EmmList is empty.</li> <li>• DescramblerRef does not correspond to a CAM.</li> <li>• EMM already added to CAM.</li> </ul> |

**Version**

Release 9.0

**8.65.4.13** void DCM::DeviceControl::DescrEMM\_DeleteL ( in unsigned short *BoardNr*, in IPS\_RefPidList\_t *EmmList* ) raises (TimeOut, OpNotSucceeded, OpNotSupported, OpNotAllowed)

Deletes one or more EMMs routed to a CAM.

The EMMs in the list can belong to different CAMs.

**Parameters**

|    |                |                                  |
|----|----------------|----------------------------------|
| in | <i>BoardNr</i> | identifies the board             |
| in | <i>EmmList</i> | references of EMMs to be deleted |

**Exceptions**

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing         |
| <i>OpNotAllowed</i>   | not logged in                                     |
| <i>OpNotSupported</i> | if board does not support this function.          |
| <i>OpNotSucceeded</i> | one of the EMMs was not found, invalid board ref. |

**Version**

Release 9.0

**8.65.4.14** void DCM::DeviceControl::DescrEMM\_GetL ( in IPS\_Ref\_t *DescramblerRef*, out IPS\_RefPidList\_t *EmmList* ) raises (TimeOut, OpNotSucceeded, OpNotSupported, OpNotAllowed)

Retrieve the list of EMMs routed to a CAM.

**Parameters**

|     |                        |                                                  |
|-----|------------------------|--------------------------------------------------|
| in  | <i>Descrambler-Ref</i> | identifies the descrambler. Wildcard is allowed. |
| out | <i>EmmList</i>         | list of references of found EMMs.                |

**Exceptions**

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                   |
| <i>OpNotAllowed</i>   | not logged in                                               |
| <i>OpNotSupported</i> | if board does not support this function.                    |
| <i>OpNotSucceeded</i> | - invalid DescramblerRef or not matching descrambler found. |



**Version**

Release 9.0

**8.65.4.15** void DCM::DeviceControl::DescrResourceGetL ( in unsigned short *BoardNr*, out DescrResource\_List\_t *DescrResourceList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieve the list of available descrambling resources for a given board.

**Parameters**

|     |                           |                                           |
|-----|---------------------------|-------------------------------------------|
| in  | <i>BoardNr</i>            | identifies the board.                     |
| out | <i>Descr-ResourceList</i> | list of available descrambling resources. |

**Exceptions**

|                       |                                        |
|-----------------------|----------------------------------------|
| <i>TimeOut</i>        | IDL request timed out                  |
| <i>OpNotAllowed</i>   | Not logged in.                         |
| <i>OpNotSupported</i> | Board does not support this operation. |
| <i>OpNotSucceeded</i> | Processing error.                      |

**Version**

Release 9.0

**8.65.4.16** void DCM::DeviceControl::DescrResourceSetL ( in unsigned short *BoardNr*, in DescrResource\_List\_t *ConfigList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Configure the name of one or more descrambling resources.

When an empty string is provided as name, the name will be reverted to the default value.

**Parameters**

|     |                   |                                                                                                                          |
|-----|-------------------|--------------------------------------------------------------------------------------------------------------------------|
| in  | <i>BoardNr</i>    | identifies the board.                                                                                                    |
| out | <i>ConfigList</i> | list containing the names of the descrambling resources. Only the Name field in <a href="#">DescrResource_t</a> is used. |

**Exceptions**

|                       |                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | IDL request timed out.                                                                                                                                            |
| <i>OpNotAllowed</i>   | Not logged in.                                                                                                                                                    |
| <i>OpNotSupported</i> | Board does not support this operation.                                                                                                                            |
| <i>OpNotSucceeded</i> | - Names are not unique across the board. <ul style="list-style-type: none"> <li>• Mismatch between DescrId and Ref.</li> <li>• Invalid DescrId or Ref.</li> </ul> |

**Version**

Release 9.0

**8.65.4.17** void DCM::DeviceControl::DescrServiceAddL ( in IPS\_Ref\_t *DescramblerRef*, in IPS\_RefSvc\_List\_t *InputRefSvcList*, out IPS\_RefSvc\_List\_t *CreatedServicesL* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a list of services to a descrambling resource.

In case of an error the created services list can contain a partial result, e.g. a number of services has been created. It is up to the client to implement a roll-back and delete the services if necessary.

**Parameters**

|     |                          |                                                  |
|-----|--------------------------|--------------------------------------------------|
| in  | <i>Descrambler-Ref</i>   | identifies the descrambling resource.            |
| in  | <i>InputRefSvcList</i>   | list of RefSvc of the (IO board) input services. |
| out | <i>Created-ServicesL</i> | list of created services.                        |

**Exceptions**

|                       |                                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                                                                                                                                                                   |
| <i>OpNotSucceeded</i> | - invalid references are used <ul style="list-style-type: none"> <li>• one of the input services already has been added.</li> <li>• a TS in SFN/TS mode already is added to a CAM descrambling resource.</li> <li>• invalid DescrId is provided.</li> </ul> |
| <i>OpNotAllowed</i>   | not logged in                                                                                                                                                                                                                                               |
| <i>OpNotSupported</i> | if board does not support this function.                                                                                                                                                                                                                    |

**Version**

Release 9.0

**8.65.4.18** void DCM::DeviceControl::DescrServiceDeleteL ( in unsigned short *BoardNr*, in IPS\_RefSvc\_List\_t *RefSvcList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Removes a list of services from a descrambling resource.

There can be conditions preventing deletion of the service, such as passed to output, being part of a TS in SFN/TS mode (and present at the input PAT)... A property bit in struct [DescrServiceData\\_t](#) indicates whether the service can be deleted. This function is executed in a best effort way: services might be deleted partially in case an error occurs.

**Parameters**

|    |                   |                                                                                                                |
|----|-------------------|----------------------------------------------------------------------------------------------------------------|
| in | <i>BoardNr</i>    | identifies the board.                                                                                          |
| in | <i>RefSvcList</i> | a list of services to delete. Use the RefSvc field of the <a href="#">DescrServiceData_t</a> for this purpose. |

**Exceptions**

|                       |                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                                                                                                                                           |
| <i>OpNotSucceeded</i> | - Invalid references are used (RefSvcList). <ul style="list-style-type: none"> <li>Inconsistency between BoardNr &amp; RefSvcList[x].Ref.PhysRef.BoardNr.</li> <li>The service cannot be deleted, e.g. passed to output.</li> </ul> |
| <i>OpNotAllowed</i>   | not logged in                                                                                                                                                                                                                       |
| <i>OpNotSupported</i> | if board does not support this function.                                                                                                                                                                                            |

**Version**

Release 9.0

**8.65.4.19** void DCM::DeviceControl::DescrServiceGetL ( in IPS\_Ref\_t *DescramblerRef*, in IPS\_RefSvc\_List\_t *RefSvcList*, out DescrServiceData\_List\_t *ServiceList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of services on a descrambling resource.

If a wildcard is used for DescramblerRef.PortNr, the RefSvcList should be empty.

**Parameters**

|     |                        |                                                                                                                                        |
|-----|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| in  | <i>Descrambler-Ref</i> | identifies the descrambling resource. Wildcard allowed.                                                                                |
| in  | <i>RefSvcList</i>      | list of RefSvc of the descrambler services for which to return the service data. For an empty list, data of all services are returned. |
| out | <i>ServiceList</i>     | List of ProcServiceDataDescrServiceData_t entries                                                                                      |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing                                                                                                                                                                                                                                      |
| <i>OpNotAllowed</i>   | not logged in                                                                                                                                                                                                                                                                  |
| <i>OpNotSupported</i> | if board does not support this function.                                                                                                                                                                                                                                       |
| <i>OpNotSucceeded</i> | - invalid or inconsistent references are used in RefSvcList. <ul style="list-style-type: none"> <li>wildcard used for PortNr and RefSvcList is not empty.</li> <li>inconsistency in BoardNr or PortNr between DescramblerRef and one of the elements in RefSvcList.</li> </ul> |

**Version**

Release 9.0

**8.65.4.20** void DCM::DeviceControl::DescrServiceSetL ( in unsigned short *BoardNr*, in DescrServiceData\_List\_t *ServiceDataList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set service details of services on a descrambler.

Only the UserTag is currently settable.

**Parameters**

|    |                         |                                                                                                  |
|----|-------------------------|--------------------------------------------------------------------------------------------------|
| in | <i>BoardNr</i>          | identifies the board.                                                                            |
| in | <i>ServiceData-List</i> | list of <a href="#">DescrServiceData_t</a> specifying the service data details for modification. |

**Exceptions**

|                       |                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing                                                                                                                                                        |
| <i>OpNotAllowed</i>   | not logged in                                                                                                                                                                                    |
| <i>OpNotSupported</i> | if board does not support this function.                                                                                                                                                         |
| <i>OpNotSucceeded</i> | - invalid references are used, UserTag already used,<br><ul style="list-style-type: none"> <li>inconsistency between BoardNr and BoardNr in one of the elements of - ServiceDataList.</li> </ul> |

**Version**

Release 9.0

**8.65.4.21** void DCM::DeviceControl::DescrSvcConfigGetL ( in IPS\_Ref\_t *DescramblerRef*, in IPS\_RefSvc\_List\_t *SvcFilter*, out DescrSvcConfig\_List\_t *ConfigList* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Returns the services / PIDs for which descrambling is configured.

If a wildcard is used for DescramblerRef.PortNr, the SvcFilter should be empty.

**Parameters**

|     |                        |                                                      |
|-----|------------------------|------------------------------------------------------|
| in  | <i>Descrambler-Ref</i> | identifies the descrambler. Wildcard allowed.        |
| in  | <i>SvcFilter</i>       | if non-empty, limit result to services in this list. |
| out | <i>ConfigList</i>      | list of descrambling configurations per service.     |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | request timed out.                                                                                                                                                                                                                                                                                       |
| <i>OpNotAllowed</i>   | not logged in                                                                                                                                                                                                                                                                                            |
| <i>OpNotSupported</i> | if board does not support this function.                                                                                                                                                                                                                                                                 |
| <i>OpNotSucceeded</i> | - invalid DescramblerRef or no matching descrambler found.<br><ul style="list-style-type: none"> <li>invalid reference in SvcFilter.</li> <li>inconsistency in PortNr between DescramblerRef and element in SvcFilter.</li> <li>wildcard for DescramblerRef.PortNr &amp; SvcFilter not empty.</li> </ul> |

**Version**

Release 9.0

**8.65.4.22** void DCM::DeviceControl::DescrSvcConfigSetL ( in unsigned short *BoardNr*, in DescrSvcConfig\_List\_t *ConfigList* ) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Start descrambling on services / components on the specified virtual TS.

**Parameters**

|    |                   |                                                 |
|----|-------------------|-------------------------------------------------|
| in | <i>BoardNr</i>    | identifies the board                            |
| in | <i>ConfigList</i> | list of descrambling configurations per service |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | request timed out.                                                                                                                                                                                                                                                                                           |
| <i>OpNotAllowed</i>   | not logged on.                                                                                                                                                                                                                                                                                               |
| <i>OpNotSupported</i> | board does not support the operation.                                                                                                                                                                                                                                                                        |
| <i>OpNotSucceeded</i> | - if ConfigList contains invalid reference or Pid. <ul style="list-style-type: none"> <li>• if an error occurred during configuration of descrambling.</li> <li>• if comp. level descrambling is configured with empty list.</li> <li>• if invalid or unsupported tracking criterium is provided.</li> </ul> |

**Version**

Release 9.0

**8.65.4.23** void DCM::DeviceControl::DescrTS\_Add ( in IPS\_Ref\_t *DescramblerRef*, in IPS\_RefTS\_t *RefTsIn*, out IPS\_RefTS\_t *CreatedTs* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Add a TS to a descrambler.

**Parameters**

|     |                        |                                       |
|-----|------------------------|---------------------------------------|
| in  | <i>Descrambler-Ref</i> | identifies the descrambling resource. |
| in  | <i>RefTsIn</i>         | reference of input TS to pass.        |
| out | <i>CreatedTs</i>       | reference of the created TS.          |

**Exceptions**

|                       |                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing                                                                                                                                                                    |
| <i>OpNotSucceeded</i> | - invalid DescramblerRef or RefTsIn. <ul style="list-style-type: none"> <li>• other TS, service or EMM already passed to a CAM.</li> <li>• same input TS already passed to the given descrambler.</li> </ul> |
| <i>OpNotAllowed</i>   | not logged in                                                                                                                                                                                                |
| <i>OpNotSupported</i> | if board does not support this function.                                                                                                                                                                     |

**Version**

Release 9.10

**8.65.4.24** void DCM::DeviceControl::DescrTS\_DeleteL ( in unsigned short *BoardNr*, in IPS\_RefTS\_List\_t *RefTsList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Remove one or more TS's from a descrambler.

The TS can only be deleted if the TS (or part of it) is not passed to an IO board. This function is executed in a best effort way, meaning that possibly not all TS are deleted.

**Parameters**

|    |                  |                                                                       |
|----|------------------|-----------------------------------------------------------------------|
| in | <i>BoardNr</i>   | identifies the board.                                                 |
| in | <i>RefTsList</i> | list of TS references, as assigned by <a href="#">DescrTS_Add()</a> . |

**Exceptions**

|                       |                                                                             |
|-----------------------|-----------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | - Invalid TS reference, TS reference not found.<br>• passed to an IO board. |
| <i>OpNotAllowed</i>   | not logged in.                                                              |
| <i>OpNotSupported</i> | if board does not support this function.                                    |

**Version**

Release 9.10

**8.65.4.25** void DCM::DeviceControl::DescrTS\_GetL ( in unsigned short *BoardNr*, in IPS\_RefTS\_List\_t *RefTsList*, out DescrTS\_Data\_List\_t *TsDataList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the list of transport streams passed to a descrambler board.

**Parameters**

|     |                   |                                                                                                                                 |
|-----|-------------------|---------------------------------------------------------------------------------------------------------------------------------|
| in  | <i>BoardNr</i>    | number of the board.                                                                                                            |
| in  | <i>RefTsList</i>  | list of RefTs of the descrambler services for which to return the TS data.<br>For an empty list, data of all TS's are returned. |
| out | <i>TsDataList</i> | list of <a href="#">DescrTS_Data_t</a> entries.                                                                                 |

**Exceptions**

|                       |                                           |
|-----------------------|-------------------------------------------|
| <i>Timeout</i>        | A timeout occurred during IIOP processing |
| <i>OpNotAllowed</i>   | not logged in                             |
| <i>OpNotSupported</i> | if board does not support this function.  |
| <i>OpNotSucceeded</i> | invalid references are used               |

**Version**

Release 9.10

**Deprecated** Since Release 12.0, use DescrTS\_GetL\_V2 instead

**8.65.4.26** void DCM::DeviceControl::DescrTS\_GetL\_V2 ( in unsigned short *BoardNr*, in IPS\_RefTS\_List\_t *RefTsList*, out DescrTS\_Data\_List\_V2\_t *TsDataList* ) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported)

Get the list of transport streams passed to a descrambler board.

**Parameters**

|     |                   |                                                                                                                                                              |
|-----|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in  | <i>BoardNr</i>    | number of the board.                                                                                                                                         |
| in  | <i>RefTsList</i>  | list of RefTs of the descrambler services for which to return the TS data. For an empty list, data of all TS's are returned. Wildcard is allowed for TS ref. |
| out | <i>TsDataList</i> | list of <a href="#">DescrTS_Data_V2_t</a> entries.                                                                                                           |

**Exceptions**

|                        |                                           |
|------------------------|-------------------------------------------|
| <i>TimeOut</i>         | A timeout occurred during IIOP processing |
| <i>OpNotAllowed</i>    | not logged in                             |
| <i>OpNotSupported</i>  | if board does not support this function.  |
| <i>OperationFailed</i> | in case invalid references are used       |

**Note**

- An empty RefList means all refs.

**Version**

Release 12.0

**8.65.4.27** void DCM::DeviceControl::DescrTS\_SetL ( in unsigned short *BoardNr*, in DescrTS\_Data\_List\_t *TsDataList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set TS details of one or more TS's on a descrambler.

Only the UserTag is currently settable.

**Parameters**

|    |                   |                                |
|----|-------------------|--------------------------------|
| in | <i>BoardNr</i>    | identifies the board.          |
| in | <i>TsDataList</i> | list of TS configuration data. |

**Exceptions**

|                       |                                           |
|-----------------------|-------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing |
| <i>OpNotAllowed</i>   | not logged in                             |
| <i>OpNotSupported</i> | if board does not support this function.  |

|                       |                                                  |
|-----------------------|--------------------------------------------------|
| <i>OpNotSucceeded</i> | invalid references are used, duplicate UserTags. |
|-----------------------|--------------------------------------------------|

**Version**

Release 9.10

**Deprecated** Since Release 12.0, user DescrTS\_SetL\_V2 instead

**8.65.4.28** void DCM::DeviceControl::DescrTS\_SetL\_V2 ( in unsigned short *BoardNr*, in DescrTS\_Data\_List\_V2\_t *TsDataList* ) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported)

Set TS details of one or more TS's on a descrambler.

Only the UserTag and TransparentSI flag are currently settable.

**Parameters**

|    |                   |                                |
|----|-------------------|--------------------------------|
| in | <i>BoardNr</i>    | identifies the board.          |
| in | <i>TsDataList</i> | list of TS configuration data. |

**Exceptions**

|                        |                                                  |
|------------------------|--------------------------------------------------|
| <i>TimeOut</i>         | A timeout occurred during IIOP processing        |
| <i>OpNotAllowed</i>    | not logged in                                    |
| <i>OpNotSupported</i>  | if board does not support this function.         |
| <i>OperationFailed</i> | invalid references are used, duplicate UserTags. |

**Version**

Release 12.0



## 8.66 SI sub table passing

This module contains types, enums and methods related to SI sub table passing.

### Functions

- void [DCM::DeviceControl::CreateOutputSI\\_Tables](#) (in IPS\_RefTS\_t OutTs, in TableGenerationDataList\_t TableGenerationDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Create a list of OutputSiSubTables on one OutTs.*
- void [DCM::DeviceControl::DeleteOutputSI\\_Tables](#) (in IPS\_RefTS\_t OutTs, in TableKeys\_List\_t - TableRefList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*delete a list of OutputSiSubTable on one OutTs.*

### 8.66.1 Detailed Description

This module contains types, enums and methods related to SI sub table passing.

### 8.66.2 Function Documentation

**8.66.2.1** void [DCM::DeviceControl::CreateOutputSI\\_Tables](#) ( in IPS\_RefTS\_t OutTs, in TableGenerationDataList\_t TableGenerationDataList ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Create a list of OutputSiSubTables on one OutTs.

#### Parameters

|    |                             |                                  |
|----|-----------------------------|----------------------------------|
| in | OutTs                       | specifies BoardNr, PortNr.and TS |
| in | Table-Generation-DataList,: | list of output table settings    |

#### Exceptions

|                |                                                         |
|----------------|---------------------------------------------------------|
| TimeOut        | a timeout occurred during IIOP processing               |
| OpNotSucceeded | internal error only                                     |
| OpNotAllowed   | not logged on                                           |
| OpNotSupported | when call not yet supported on running software version |
| LicenseError   | when the appropriate license is not installed           |

#### Version

release 6.0  
 release 7.1 support for EITpfa to EITpfo conversion

**8.66.2.2** void [DCM::DeviceControl::DeleteOutputSI\\_Tables](#) ( in IPS\_RefTS\_t OutTs, in TableKeys\_List\_t TableRefList ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

delete a list of OutputSiSubTable on one OutTs.

**Parameters**

|    |                       |                                        |
|----|-----------------------|----------------------------------------|
| in | <i>OutTs</i>          | specifies BoardNr, PortNr.and TS       |
| in | <i>TableRefList,:</i> | list of output TableRefs to be deleted |

**Exceptions**

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing               |
| <i>OpNotSucceeded</i> | internal error only                                     |
| <i>OpNotAllowed</i>   | not logged on                                           |
| <i>OpNotSupported</i> | when call not yet supported on running software version |

**Version**

release 6.0

## 8.67 EAS

This module contains types, enums and methods related to the EAS module.

### Classes

- struct `DCM::DeviceControl::EasConfig_t`  
*Represents the configuration of an EAS proxy.*

### Typedefs

- typedef `sequence< EasConfig_t > DCM::DeviceControl::EasConfigList_t`  
*A sequence of EAS proxy configurations.*

### Enumerations

- enum `DCM::DeviceControl::enumEasProtocol_t` { `DCM::DeviceControl::eEasProtocol_SCTE18`, `DCM::DeviceControl::eEasProtocol_CAP12`, `DCM::DeviceControl::eEasProtocol_Reserved1`, `DCM::DeviceControl::eEasProtocol_Reserved2`, `DCM::DeviceControl::eEasProtocol_Reserved3`, `DCM::DeviceControl::eEasProtocol_Reserved4`, `DCM::DeviceControl::eEasProtocol_Reserved5` }  
*Represents the protocol used by the EAS proxy.*
- enum `DCM::DeviceControl::enumEasSocketType_t` { `DCM::DeviceControl::eEasSocketType_UDP_Unicast`, `DCM::DeviceControl::eEasSocketType_UDP_Multicast`, `DCM::DeviceControl::eEasSocketType_UDP_Broadcast`, `DCM::DeviceControl::eEasSocketType_Reserved1`, `DCM::DeviceControl::eEasSocketType_Reserved2`, `DCM::DeviceControl::eEasSocketType_Reserved3`, `DCM::DeviceControl::eEasSocketType_Reserved4`, `DCM::DeviceControl::eEasSocketType_Reserved5` }  
*Represents the socket type.*

### Functions

- void `DCM::DeviceControl::CreateEas` (out unsigned long EasId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Create an EAS proxy.*
- void `DCM::DeviceControl::DeleteEas` (in unsigned long EasId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete an EAS proxy.*
- void `DCM::DeviceControl::SetEasConfig` (in EasConfig\_t EasConfig) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set EAS proxy configuration settings for one EAS proxy.*
- void `DCM::DeviceControl::GetEasConfigL` (in IdList EasIds, out EasConfigList\_t EasConfigList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get EAS proxy configuration settings.*

#### 8.67.1 Detailed Description

This module contains types, enums and methods related to the EAS module.

### 8.67.2 Typedef Documentation

#### 8.67.2.1 typedef sequence<EasConfig\_t> DCM::DeviceControl::EasConfigList\_t

A sequence of EAS proxy configurations.

Definition at line 29007 of file DCM.idl.

### 8.67.3 Enumeration Type Documentation

#### 8.67.3.1 enum DCM::DeviceControl::enumEasProtocol\_t

Represents the protocol used by the EAS proxy.

Enumerator:

- eEasProtocol\_SCTE18* protocol = SCTE18 CEAM section.
- eEasProtocol\_CAP12* protocol = CAP1.2 XML (not yet supported).
- eEasProtocol\_Reserved1* for future use
- eEasProtocol\_Reserved2* for future use
- eEasProtocol\_Reserved3* for future use
- eEasProtocol\_Reserved4* for future use
- eEasProtocol\_Reserved5* for future use

Definition at line 28954 of file DCM.idl.

#### 8.67.3.2 enum DCM::DeviceControl::enumEasSocketType\_t

Represents the socket type.

Enumerator:

- eEasSocketType\_UDP\_Unicast* Unicast UDP.
- eEasSocketType\_UDP\_Multicast* Multicast UDP.
- eEasSocketType\_UDP\_Broadcast* Broadcast UDP.
- eEasSocketType\_Reserved1* for future use
- eEasSocketType\_Reserved2* for future use
- eEasSocketType\_Reserved3* for future use
- eEasSocketType\_Reserved4* for future use
- eEasSocketType\_Reserved5* for future use

Definition at line 28968 of file DCM.idl.

### 8.67.4 Function Documentation

#### 8.67.4.1 void DCM::DeviceControl::CreateEas ( out unsigned long *EasId* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Create an EAS proxy.

**Parameters**

|     |              |                                     |
|-----|--------------|-------------------------------------|
| out | <i>EasId</i> | proxy_id of newly created EAS proxy |
|-----|--------------|-------------------------------------|

**Exceptions**

|                       |                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing.                                                                |
| <i>OpNotSucceeded</i> | internal error, such as max. number of proxies reached.                                                   |
| <i>OpNotAllowed</i>   | not logged on.                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version. |

**Version**

release 8.5

**8.67.4.2** void DCM::DeviceControl::DeleteEas ( in unsigned long *EasId* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Delete an EAS proxy.

En EAS proxy can only be deleted if it is not used by any of the output transport streams.

**Parameters**

|    |              |                                 |
|----|--------------|---------------------------------|
| in | <i>EasId</i> | proxy_id of EAS proxy to delete |
|----|--------------|---------------------------------|

**Exceptions**

|                       |                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing.                                                                |
| <i>OpNotSucceeded</i> | EAS proxy still in use, no EAS proxy found matching the EasId.                                            |
| <i>OpNotAllowed</i>   | not logged on.                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version. |

**Version**

release 8.5

**8.67.4.3** void DCM::DeviceControl::GetEasConfigL ( in IdList *EasIds*, out EasConfigList\_t *EasConfigList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get EAS proxy configuration settings.

**Parameters**

|     |                      |                                                                                                                                                                                                            |
|-----|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in  | <i>EasIds</i>        | Identifies which EAS proxies to retrieve. If the provided list is empty, all EAS proxies are retrieved.                                                                                                    |
| out | <i>EasConfigList</i> | List of EAS proxy configurations. This list can be empty if no EAS proxies are created all proxies are requested. If a specific EAS proxy is requested but not found, the function returns OpNotSucceeded. |

**Exceptions**

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing.              |
| <i>OpNotSucceeded</i> | invalid EasId, no EAS proxy for given (specific) EasId. |
| <i>OpNotAllowed</i>   | not logged on.                                          |
| <i>OpNotSupported</i> | when called on other board than the main board.         |

**Version**

release 8.5

**8.67.4.4** void DCM::DeviceControl::SetEasConfig ( in EasConfig\_t *EasConfig* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set EAS proxy configuration settings for one EAS proxy.

The EasId field in the EasConfig structure will be used to lookup the EAS proxy.

**Parameters**

|    |                  |                                                       |
|----|------------------|-------------------------------------------------------|
| in | <i>EasConfig</i> | contains the EasId and the settings of the EAS proxy. |
|----|------------------|-------------------------------------------------------|

**Exceptions**

|                       |                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | a timeout occurred during IIOP processing.                                                                                                |
| <i>OpNotSucceeded</i> | invalid parameters, eg. No EAS proxy for given EAS id, duplicate name, invalid IP_Addr, invalid udp port, specified udp port in use, etc. |
| <i>OpNotAllowed</i>   | not logged on.                                                                                                                            |
| <i>OpNotSupported</i> | when called on other board than the mainboard or when call not yet supported on running software version.                                 |

**Version**

release 8.5

## 8.68 ASI-SFN

This contains types, enums and methods to configure SFN specific functionality of an ASI-SFN board.

### Classes

- struct [DCM::DeviceControl::GPS\\_Settings\\_t](#)
- struct [DCM::DeviceControl::MIP\\_Settings\\_t](#)
- struct [DCM::DeviceControl::GPS\\_Status\\_t](#)

### Enumerations

- enum [DCM::DeviceControl::enGPS\\_ClockImpedance](#) { [DCM::DeviceControl::eHighImpedant](#), [DCM::DeviceControl::e50Ohm](#) }
- enum [DCM::DeviceControl::enGPS\\_1PPS\\_SliceLevel](#) { [DCM::DeviceControl::eAutomaticDetection](#), [DCM::DeviceControl::eManualSetting](#) }
- enum [DCM::DeviceControl::enGPS\\_1PPS\\_Edge](#) { [DCM::DeviceControl::eRisingEdge](#), [DCM::DeviceControl::eFallingEdge](#) }
- enum [DCM::DeviceControl::enGPS\\_10MHz\\_Invert](#) { [DCM::DeviceControl::eNotInverted](#), [DCM::DeviceControl::eInverted](#) }
- enum [DCM::DeviceControl::enGPS\\_LED](#) { [DCM::DeviceControl::eLED\\_Off](#), [DCM::DeviceControl::eLED\\_On](#) }
- enum [DCM::DeviceControl::enSFN\\_Mode](#) { [DCM::DeviceControl::eSFN\\_Disable](#), [DCM::DeviceControl::eSFN\\_Enable](#) }
- enum [DCM::DeviceControl::enConstellation](#) { [DCM::DeviceControl::eQPSK](#), [DCM::DeviceControl::e16\\_QAM](#), [DCM::DeviceControl::e64\\_QAM](#) }
- enum [DCM::DeviceControl::enHierarchyAndInterleaving](#) { [DCM::DeviceControl::eNonHierarchical](#), [DCM::DeviceControl::eAlpha1](#), [DCM::DeviceControl::eAlpha2](#), [DCM::DeviceControl::eAlpha4](#) }
- enum [DCM::DeviceControl::enCodeRate](#) { [DCM::DeviceControl::e1\\_Over\\_2](#), [DCM::DeviceControl::e2\\_Over\\_3](#), [DCM::DeviceControl::e3\\_Over\\_4](#), [DCM::DeviceControl::e5\\_Over\\_6](#), [DCM::DeviceControl::e7\\_Over\\_8](#) }
- enum [DCM::DeviceControl::enGuardInterval](#) { [DCM::DeviceControl::e1\\_Over\\_32](#), [DCM::DeviceControl::e1\\_Over\\_16](#), [DCM::DeviceControl::e1\\_Over\\_8](#), [DCM::DeviceControl::e1\\_Over\\_4](#) }
- enum [DCM::DeviceControl::enFFT\\_Mode](#) { [DCM::DeviceControl::e2K\\_Mode](#), [DCM::DeviceControl::e8K\\_Mode](#) }
- enum [DCM::DeviceControl::enChannelBandwidth](#) { [DCM::DeviceControl::e7\\_MHz](#), [DCM::DeviceControl::e8\\_MHz](#), [DCM::DeviceControl::e6\\_MHz](#) }
- enum [DCM::DeviceControl::enTS\\_Priority](#) { [DCM::DeviceControl::eLowPriorityTS](#), [DCM::DeviceControl::eNonHierarchicalOrHighPriorityTS](#) }
- enum [DCM::DeviceControl::enDVB\\_H\\_Timeslicing](#) { [DCM::DeviceControl::eNoTimeSlicing](#), [DCM::DeviceControl::eTimeSlicing](#) }
- enum [DCM::DeviceControl::enDVB\\_H\\_MPE\\_FEC](#) { [DCM::DeviceControl::eMPE\\_FEC\\_NotUsed](#), [DCM::DeviceControl::eMPE\\_FEC\\_Used](#) }

### Functions

- void [DCM::DeviceControl::ASI\\_SFN\\_GetGpsSettings](#) (in unsigned short BoardNr, out [GPS\\_Settings\\_t](#) GpsSettings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the configuration of the GPS ports (10MHz and 1PPS)*
- void [DCM::DeviceControl::ASI\\_SFN\\_SetGpsSettings](#) (in unsigned short BoardNr, in [GPS\\_Settings\\_t](#) GpsSettings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the configuration of the GPS ports (10MHz and 1PPS)*

- void [DCM::DeviceControl::ASI\\_SFN\\_GetGpsStatus](#) (in unsigned short BoardNr, out GPS\_Status\_t GpsStatus) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the status of the GPS ports (10MHz and 1PPS)*

- void [DCM::DeviceControl::ASI\\_SFN\\_GetMipSettings](#) (in IPS\_RefTS\_t RefTsOut, out MIP\_Settings\_t MipSettings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the parameters of a MIP packet.*

- void [DCM::DeviceControl::ASI\\_SFN\\_SetMipSettings](#) (in IPS\_RefTS\_t RefTsOut, in MIP\_Settings\_t MipSettings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the parameters of a MIP packet.*

- void [DCM::DeviceControl::ASI\\_SFN\\_GetSfnMode](#) (in IPS\_RefTS\_t RefTsOut, out enSFN\_Mode eSFN\_Mode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the SFN mode (SFN enabled/disabled)*

- void [DCM::DeviceControl::ASI\\_SFN\\_SetSfnMode](#) (in IPS\_RefTS\_t RefTsOut, in enSFN\_Mode eSFN\_Mode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the SFN mode (Enable/disable SFN)*

### 8.68.1 Detailed Description

This contains types, enums and methods to configure SFN specific functionality of an ASI-SFN board.

### 8.68.2 Enumeration Type Documentation

#### 8.68.2.1 enum DCM::DeviceControl::enChannelBandwidth

Enumerator:

*e7\_MHz*  
*e8\_MHz*  
*e6\_MHz*

Definition at line 29143 of file DCM.idl.

#### 8.68.2.2 enum DCM::DeviceControl::enCodeRate

Enumerator:

*e1\_Over\_2*  
*e2\_Over\_3*  
*e3\_Over\_4*  
*e5\_Over\_6*  
*e7\_Over\_8*

Definition at line 29120 of file DCM.idl.

#### 8.68.2.3 enum DCM::DeviceControl::enConstellation

Enumerator:

*eQPSK*  
*e16\_QAM*



***e64\_QAM***

Definition at line 29105 of file DCM.idl.

**8.68.2.4 enum DCM::DeviceControl::enDVB\_H\_MPE\_FEC**

Enumerator:

***eMPE\_FEC\_NotUsed***

***eMPE\_FEC\_Used*** used by at least one elementary stream

Definition at line 29162 of file DCM.idl.

**8.68.2.5 enum DCM::DeviceControl::enDVB\_H\_Timeslicing**

Enumerator:

***eNoTimeSlicing***

***eTimeSlicing*** used by at least one elementary stream

Definition at line 29156 of file DCM.idl.

**8.68.2.6 enum DCM::DeviceControl::enFFT\_Mode**

Enumerator:

***e2K\_Mode***

***e8K\_Mode***

Definition at line 29137 of file DCM.idl.

**8.68.2.7 enum DCM::DeviceControl::enGPS\_10MHz\_Invert**

Enumerator:

***eNotInverted***

***eInverted***

Definition at line 29075 of file DCM.idl.

**8.68.2.8 enum DCM::DeviceControl::enGPS\_1PPS\_Edge**

Enumerator:

***eRisingEdge***

***eFallingEdge***

Definition at line 29069 of file DCM.idl.

**8.68.2.9 enum DCM::DeviceControl::enGPS\_1PPS\_SliceLevel**

Enumerator:

***eAutomaticDetection***

***eManualSetting***

Definition at line 29063 of file DCM.idl.

**8.68.2.10 enum DCM::DeviceControl::enGPS\_ClockImpedance****Enumerator:**

*eHighImpedant*  
*e500hm*

Definition at line 29057 of file DCM.idl.

**8.68.2.11 enum DCM::DeviceControl::enGPS\_LED****Enumerator:**

*eLED\_Off*  
*eLED\_On*

Definition at line 29081 of file DCM.idl.

**8.68.2.12 enum DCM::DeviceControl::enGuardInterval****Enumerator:**

*e1\_Over\_32*  
*e1\_Over\_16*  
*e1\_Over\_8*  
*e1\_Over\_4*

Definition at line 29129 of file DCM.idl.

**8.68.2.13 enum DCM::DeviceControl::enHierarchyAndInterleaving****Enumerator:**

*eNonHierarchical*  
*eAlpha1*  
*eAlpha2*  
*eAlpha4*

Definition at line 29112 of file DCM.idl.

**8.68.2.14 enum DCM::DeviceControl::enSFN\_Mode****Enumerator:**

*eSFN\_Disable*  
*eSFN\_Enable*

Definition at line 29099 of file DCM.idl.

**8.68.2.15 enum DCM::DeviceControl::enTS\_Priority****Enumerator:**

*eLowPriorityTS*  
*eNonHierarchicalOrHighPriorityTS*

Definition at line 29150 of file DCM.idl.

### 8.68.3 Function Documentation

**8.68.3.1** void DCM::DeviceControl::ASI\_SF\_N\_GetGpsSettings ( in unsigned short *BoardNr*, out GPS\_Settings\_t *GpsSettings* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the configuration of the GPS ports (10MHz and 1PPS)

#### Parameters

|     |                    |                                |
|-----|--------------------|--------------------------------|
| in  | <i>BoardNr</i>     | Specifies the BoardNr          |
| out | <i>GpsSettings</i> | Configuration of the GPS ports |

#### Exceptions

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When called for non-ASI-SFN boards |
|-----------------------|------------------------------------|

#### Version

Release 6.9

**8.68.3.2** void DCM::DeviceControl::ASI\_SF\_N\_GetGpsStatus ( in unsigned short *BoardNr*, out GPS\_Status\_t *GpsStatus* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the status of the GPS ports (10MHz and 1PPS)

#### Parameters

|     |                  |                                                                         |
|-----|------------------|-------------------------------------------------------------------------|
| in  | <i>BoardNr</i>   | Specifies the BoardNr                                                   |
| out | <i>GpsStatus</i> | Status of 10MHz and 1PPS clock and values of 1PPS Level (min/max/slice) |

#### Remarks

Should only be used for testing purposes. It may influence mechanism to detect GPS status changes!

#### Exceptions

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When called for non-ASI-SFN boards |
|-----------------------|------------------------------------|

#### Version

Release 6.9

**8.68.3.3** void DCM::DeviceControl::ASI\_SF\_N\_GetMipSettings ( in IPS\_RefTS\_t *RefTsOut*, out MIP\_Settings\_t *MipSettings* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the parameters of a MIP packet.

**Parameters**

|     |                    |                            |
|-----|--------------------|----------------------------|
| in  | <i>RefTsOut</i>    | The output TS              |
| out | <i>MipSettings</i> | Parameters of a MIP packet |

**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When called for non-ASI-SFN boards |
|-----------------------|------------------------------------|

**Version**

Release 6.9

**8.68.3.4** void DCM::DeviceControl::ASI\_SFN\_GetSfnMode ( in IPS\_RefTS\_t *RefTsOut*, out enSFN\_Mode *eSFN\_Mode* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Get the SFN mode (SFN enabled/disabled)

**Parameters**

|     |                  |                                 |
|-----|------------------|---------------------------------|
| in  | <i>RefTsOut</i>  | The output TS                   |
| out | <i>eSFN_Mode</i> | SFN mode (SFN enabled/disabled) |

**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When called for non-ASI-SFN boards |
|-----------------------|------------------------------------|

**Version**

Release 6.9

**8.68.3.5** void DCM::DeviceControl::ASI\_SFN\_SetGpsSettings ( in unsigned short *BoardNr*, in GPS\_Settings\_t *GpsSettings* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the configuration of the GPS ports (10MHz and 1PPS)

**Parameters**

|    |                    |                                |
|----|--------------------|--------------------------------|
| in | <i>BoardNr</i>     | Specifies the BoardNr          |
| in | <i>GpsSettings</i> | Configuration of the GPS ports |

**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When called for non-ASI-SFN boards |
|-----------------------|------------------------------------|

**Version**

Release 6.9

**8.68.3.6** void DCM::DeviceControl::ASI\_SFN\_SetMipSettings ( in IPS\_RefTS\_t *RefTsOut*, in MIP\_Settings\_t *MipSettings* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Set the parameters of a MIP packet.

**Parameters**

|    |                    |                            |
|----|--------------------|----------------------------|
| in | <i>RefTsOut</i>    | The output TS              |
| in | <i>MipSettings</i> | Parameters of a MIP packet |

**Exceptions**

|                       |                                    |
|-----------------------|------------------------------------|
| <i>OpNotSupported</i> | When called for non-ASI-SFN boards |
|-----------------------|------------------------------------|

**Version**

Release 6.9

**8.68.3.7** void DCM::DeviceControl::ASI\_SFN\_SetSfnMode ( in IPS\_RefTS\_t *RefTsOut*, in enSfn\_Mode *eSfn\_Mode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

Set the SFN mode (Enable/disable SFN)

**Parameters**

|    |                  |                                 |
|----|------------------|---------------------------------|
| in | <i>RefTsOut</i>  | The output TS                   |
| in | <i>eSfn_Mode</i> | SFN mode (SFN enabled/disabled) |

**Exceptions**

|                       |                                       |
|-----------------------|---------------------------------------|
| <i>OpNotSupported</i> | When called for non-ASI-SFN boards    |
| <i>LicenseError</i>   | When there are insufficient licenses. |

**Version**

Release 6.9

## 8.69 PacketIndexer

This contains types, enums and methods to configure PacketIndexer functionality.

### Classes

- struct [DCM::DeviceControl::PacketIndexerSettings\\_t](#)

### Functions

- void [DCM::DeviceControl::GetPacketIndexerSettings](#) (in IPS\_RefTS\_t RefTsOut, out PacketIndexerSettings\_t PacketIndexerSettings) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get the Packet Indexer Settings of an output TS.*
- void [DCM::DeviceControl::SetPacketIndexerSettings](#) (in IPS\_RefTS\_t RefTsOut, in PacketIndexerSettings\_t PacketIndexerSettings) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Set the Packet Indexer Settings of an output TS.*
- void [DCM::DeviceControl::GetPacketIndexerId](#) (in unsigned short BoardNr, out unsigned short - PacketIndexerId) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the Packet Indexer Id of an ASI board.*

- void [DCM::DeviceControl::SetPacketIndexerId](#) (in unsigned short BoardNr, in unsigned short PacketIndexerId) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Set the Packet Indexer Id of an ASI board.*

### 8.69.1 Detailed Description

This contains types, enums and methods to configure PacketIndexer functionality.

### 8.69.2 Function Documentation

- 8.69.2.1** void [DCM::DeviceControl::GetPacketIndexerId](#) ( in unsigned short *BoardNr*, out unsigned short *PacketIndexerId* ) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the Packet Indexer Id of an ASI board.

#### Parameters

|     |                        |                       |
|-----|------------------------|-----------------------|
| in  | <i>BoardNr</i>         | The asi board number  |
| out | <i>PacketIndexerId</i> | The Packet Indexer Id |

#### Exceptions

|                         |                                                                                    |
|-------------------------|------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i> | <ul style="list-style-type: none"> <li>• When called for non-ASI boards</li> </ul> |
|-------------------------|------------------------------------------------------------------------------------|

|                          |                                                                               |
|--------------------------|-------------------------------------------------------------------------------|
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>• When parse errors occur</li> </ul>   |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>• When writing to FW failed</li> </ul> |

**Version**

Release 9.0

**8.69.2.2** void DCM::DeviceControl::GetPacketIndexerSettings ( in IPS\_RefTS\_t *RefTsOut*, out PacketIndexerSettings\_t *PacketIndexerSettings* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the Packet Indexer Settings of an output TS.

**Parameters**

|     |                              |                            |
|-----|------------------------------|----------------------------|
| in  | <i>RefTsOut</i>              | The output TS              |
| out | <i>PacketIndexerSettings</i> | settings of Packet Indexer |

**Exceptions**

|                          |                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"> <li>• When called for non-ASI boards</li> </ul>     |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>• When parse errors occur</li> </ul>            |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>• When invalid references are passed</li> </ul> |

**Version**

Release 9.0

**8.69.2.3** void DCM::DeviceControl::SetPacketIndexerId ( in unsigned short *BoardNr*, in unsigned short *PacketIndexerId* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Set the Packet Indexer Id of an ASI board.

**Parameters**

|    |                        |                       |
|----|------------------------|-----------------------|
| in | <i>BoardNr</i>         | The asi board number  |
| in | <i>PacketIndexerId</i> | The Packet Indexer Id |

**Exceptions**

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"><li>• When called for non-ASI boards</li></ul> |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"><li>• When parse errors occur</li></ul>        |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"><li>• When writing to FW failed</li></ul>      |

**Version**

Release 9.0

**8.69.2.4** void DCM::DeviceControl::SetPacketIndexerSettings ( in IPS\_RefTS\_t *RefTsOut*, in PacketIndexerSettings\_t *PacketIndexerSettings* ) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Set the Packet Indexer Settings of an output TS.

**Parameters**

|    |                               |                            |
|----|-------------------------------|----------------------------|
| in | <i>RefTsOut</i>               | The output TS              |
| in | <i>PacketIndexer-Settings</i> | settings of Packet Indexer |

**Exceptions**

|                          |                                                                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"><li>• When called for non-ASI boards</li></ul>                                                                                    |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"><li>• When parse errors occur</li></ul>                                                                                           |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"><li>• When invalid references are passed</li><li>• When invalid settings are passed</li><li>• When writing to FW failed</li></ul> |

**Version**

Release 9.0



## 8.70 IndexPacketInterpreter

This contains types, enums and methods to configure IndexPacketInterpreter functionality.

### Classes

- struct [DCM::DeviceControl::IPI\\_Settings\\_t](#)
- struct [DCM::DeviceControl::InTS\\_IPI\\_Settings\\_t](#)  
*Information to change the IndexPacketInterpreter settings of an incoming TS.*
- struct [DCM::DeviceControl::TsPacketIndexerID\\_Data\\_t](#)

### Typedefs

- typedef sequence < [InTS\\_IPI\\_Settings\\_t](#) > [DCM::DeviceControl::InTS\\_IPI\\_Settings\\_List\\_t](#)  
*A sequence of [InTS\\_IndexPacketInterpreterSettings\\_t](#) entries.*

### Functions

- [InTS\\_IPI\\_Settings\\_List\\_t DCM::DeviceControl::InTS\\_IPI\\_SettingsGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get the IndexPacketInterpreter settings of one or more input TS.*
- void [DCM::DeviceControl::InTS\\_IPI\\_SettingsSetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [InTS\\_IPI\\_Settings\\_List\\_t](#) InTS\_IPI\_Settings\_List) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Change the IndexPacketInterpreter settings for one or more existing incoming TS.*
- void [DCM::DeviceControl::InTS\\_IPI\\_SettingsDelL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) - RefTsList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Revert the IndexPacketInterpreter setting to default for a list of input TSs.*
- void [DCM::DeviceControl::SetDefaultIPI\\_Settings](#) (in unsigned short SlotNbr, in boolean IPI\_Enabled) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Set default IndexPacketInterpreter setting for new input TS.*
- void [DCM::DeviceControl::GetDefaultIPI\\_Settings](#) (in unsigned short SlotNbr, out boolean IPI\_Enabled) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get current default IndexPacketInterpreter setting.*
- void [DCM::DeviceControl::GetTsPacketIndexerId](#) (in [IPS\\_RefTS\\_t](#) RefTsIn, out [TsPacketIndexerID\\_Data\\_t](#) TsPacketIndexerID\_Data) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get the Packet Indexer Id of an input TS.*

#### 8.70.1 Detailed Description

This contains types, enums and methods to configure IndexPacketInterpreter functionality.

## 8.70.2 Typedef Documentation

## 8.70.2.1 typedef sequence&lt;InTS\_IPI\_Settings\_t&gt; DCM::DeviceControl::InTS\_IPI\_Settings\_List\_t

A sequence of InTS\_IndexPacketInterpreterSettings\_t\_t entries.

Definition at line 29389 of file DCM.idl.

## 8.70.3 Function Documentation

8.70.3.1 void DCM::DeviceControl::GetDefaultIPI\_Settings ( in unsigned short *SlotNbr*, out boolean *IPI\_Enabled* ) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get current default IndexPacketInterpreter setting.

## Parameters

|     |                    |                                           |
|-----|--------------------|-------------------------------------------|
| in  | <i>SlotNbr</i>     | BoardNr of which we want the information. |
| out | <i>IPI_Enabled</i> | boolean setting for new input TSs.        |

## Exceptions

|                          |                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"> <li>When called for non-ASI/non-ASI-SFN/non-ASI-SFN-MkII boards</li> </ul> |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>When parse errors occur</li> </ul>                                     |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>When invalid references are passed</li> </ul>                          |

## Version

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8.70.3.2 void DCM::DeviceControl::GetTsPacketIndexerId ( in IPS\_RefTS\_t *RefTsIn*, out TsPacketIndexerID\_Data\_t *TsPacketIndexerID\_Data* ) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the Packet Indexer Id of an input TS.

## Parameters

|     |                                |                                              |
|-----|--------------------------------|----------------------------------------------|
| in  | <i>RefTsIn</i>                 | The input TS                                 |
| out | <i>TsPacket-IndexerID_Data</i> | The Packet Indexer Id and validity indicator |

**Exceptions**

|                          |                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"> <li>• When called for non-ASI/non-ASI-SFN/non-ASI-SFN-MkII boards</li> </ul> |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>• When parse errors occur</li> </ul>                                     |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>• When invalid references are passed</li> </ul>                          |

**Version**

Release 9.0

**8.70.3.3** void DCM::DeviceControl::InTS\_IPI\_SettingsDelL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Revert the IndexPacketInterpreter setting to default for a list of input TSs.

**Parameters**

|    |                  |                                              |
|----|------------------|----------------------------------------------|
| in | <i>RefPhys</i>   | The port for which to change to settings     |
| in | <i>RefTsList</i> | List of TSs for which to delete the settings |

**Exceptions**

|                          |                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"> <li>• When called for non-ASI/non-ASI-SFN/non-ASI-SFN-MkII boards</li> </ul> |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>• When parse errors occur</li> </ul>                                     |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>• When invalid references are passed</li> </ul>                          |

**Version**

Release 9.0

**8.70.3.4** InTS\_IPI\_Settings\_List\_t DCM::DeviceControl::InTS\_IPI\_SettingsGetL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefTsList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the IndexPacketInterpreter settings of one or more input TS.

**Parameters**

|    |                  |                                                         |
|----|------------------|---------------------------------------------------------|
| in | <i>RefPhys</i>   | The port of which you want the information.             |
| in | <i>RefTsList</i> | A Ref_List_t, sequence of TS Ref's you want info about. |

**Returns**

InTS\_IPI\_Settings\_List\_t A sequence of ChangePrioBitInputTS\_t entries.

**Exceptions**

|                          |                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"> <li>When called for non-ASI/non-ASI-SFN/non-ASI-SFN-MkII boards</li> </ul> |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>When parse errors occur</li> </ul>                                     |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>When invalid references are passed</li> </ul>                          |

- An empty ReTsfList means all TS refs.

**Version**

Release 9.0

**8.70.3.5** void DCM::DeviceControl::InTS\_IPI\_SettingsSetL ( in IPS\_Ref\_t *RefPhys*, in InTS\_IPI\_Settings\_List\_t *InTS\_IPI\_Settings\_List* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Change the IndexPacketInterpreter settings for one or more existing incoming TS.

**Parameters**

|    |                               |                                                      |
|----|-------------------------------|------------------------------------------------------|
| in | <i>RefPhys</i>                | The port for which parameters need to be changed.    |
| in | <i>InTS_IPI_Settings_List</i> | List of <a href="#">InTS_IPI_Settings_t</a> entries. |

**Exceptions**

|                          |                                                                                                                         |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"> <li>When called for non-ASI/non-ASI-SFN/non-ASI-SFN-MkII boards</li> </ul>           |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>When parse errors occur</li> </ul>                                               |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>When invalid references are passed</li> <li>When writing to FW failed</li> </ul> |

**Version**

Release 9.0

**8.70.3.6** void DCM::DeviceControl::SetDefaultIPI\_Settings ( in unsigned short *SlotNbr*, in boolean *IPI\_Enabled* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Set default IndexPacketInterpreter setting for new input TS.

**Parameters**

|    |                    |                                                         |
|----|--------------------|---------------------------------------------------------|
| in | <i>SlotNbr</i>     | Specifies the BoardNr on which to apply these defaults. |
| in | <i>IPI_Enabled</i> | boolean setting for new input TSs.                      |

**Exceptions**

|                          |                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"><li>• When called for non-ASI/non-ASI-SFN/non-ASI-SFN-MkII boards</li></ul> |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"><li>• When parse errors occur</li></ul>                                     |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"><li>• When invalid references are passed</li></ul>                          |

**Version**

Release 9.0

## 8.71 Deterministic Remux

This contains types, enums and methods to configure Deterministic Remultiplexing functionality.

### Classes

- struct [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_MDP\\_MultiplicationSettings\\_t](#)
- struct [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_RDCS\\_Settings\\_t](#)
- struct [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_TS\\_Output\\_Mode\\_t](#)

### Enumerations

- enum [DCM::DeviceControl::enASI\\_SFN\\_MKII\\_BoardMode](#) { [DCM::DeviceControl::eASI\\_SFN\\_MKII\\_Regular](#), [DCM::DeviceControl::eASI\\_SFN\\_MKII\\_DeterministicRemultiplexing](#) }
- enum [DCM::DeviceControl::enASI\\_SFN\\_MKII\\_TS\\_Output\\_Mode](#) { [DCM::DeviceControl::eASI\\_SFN\\_MKII\\_TS\\_Output\\_Main](#), [DCM::DeviceControl::eASI\\_SFN\\_MKII\\_TS\\_Output\\_RDCS](#), [DCM::DeviceControl::eASI\\_SFN\\_MKII\\_TS\\_Output\\_MainandRDCS](#) }

### Functions

- void [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_GetBoardMode](#) (in unsigned short BoardNr, out enASI\_SFN\_MKII\_BoardMode BoardMode) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get ASI SFN MKII board mode.*
- void [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_SetBoardMode](#) (in unsigned short BoardNr, in enASI\_SFN\_MKII\_BoardMode BoardMode) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Set ASI SFN MKII board mode.*
- void [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_GetTsOutputMode](#) (in IPS\_RefTS\_t RefTsOut, out ASI\_SFN\_MKII\_TS\_Output\_Mode\_t TS\_Mode) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get the TS output mode.*
- void [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_SetTsOutputMode](#) (in IPS\_RefTS\_t RefTsOut, in ASI\_SFN\_MKII\_TS\_Output\_Mode\_t TS\_Mode) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Set the TS output mode.*
- void [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_GetMasterMuxId](#) (in unsigned short BoardNr, out unsigned short MasterMuxId) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get the MasterMux ID of an ASI SFN MKII board.*
- void [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_SetMasterMuxId](#) (in unsigned short BoardNr, in unsigned short MasterMuxId) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Set the MasterMux ID of an ASI SFN MKII board.*
- void [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_GetRDCS\\_Settings](#) (in IPS\_RefTS\_t RefTsOut, out ASI\_SFN\_MKII\_RDCS\_Settings\_t RDCS\_Settings) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get the RDCS Settings of an output TS.*

- void `DCM::DeviceControl::ASI_SFN_MKII_SetRDCS_Settings` (in `IPS_RefTS_t RefTsOut`, in `ASI_SFN_MKII_RDCS_Settings_t RDCS_Settings`) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported)

*Set the RDCS Settings of an output TS.*

### 8.71.1 Detailed Description

This contains types, enums and methods to configure Deterministic Remultiplexing functionality.

### 8.71.2 Enumeration Type Documentation

#### 8.71.2.1 enum `DCM::DeviceControl::enASI_SFN_MKII_BoardMode`

Enumerator:

*eASI\_SFN\_MKII\_Regular* Generic ASI SFN mode.

*eASI\_SFN\_MKII\_DeterministicRemultiplexing* Deterministic Re-multiplexing mode.

Definition at line 29515 of file DCM.idl.

#### 8.71.2.2 enum `DCM::DeviceControl::enASI_SFN_MKII_TS_Output_Mode`

Enumerator:

*eASI\_SFN\_MKII\_TS\_Output\_Main* Main SFN TS.

*eASI\_SFN\_MKII\_TS\_Output\_RDCS* RDCS TS of configured TS.

*eASI\_SFN\_MKII\_TS\_Output\_MainandRDCS* Main SFN TS and RDCS TS.

Definition at line 29521 of file DCM.idl.

### 8.71.3 Function Documentation

- 8.71.3.1 void `DCM::DeviceControl::ASI_SFN_MKII_GetBoardMode` ( in unsigned short *BoardNr*, out `enASI_SFN_MKII_BoardMode BoardMode` ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get ASI SFN MKII board mode.

Parameters

|     |                  |  |
|-----|------------------|--|
| in  | <i>BoardNr</i>   |  |
| out | <i>BoardMode</i> |  |

Exceptions

|                         |                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i> | <ul style="list-style-type: none"> <li>• When called for non-ASI-SFN-MkII boards</li> </ul> |
| <i>OpNotSucceeded,:</i> | <ul style="list-style-type: none"> <li>• When parse errors occur</li> </ul>                 |

|                          |                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------|
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>• When invalid references are passed</li> </ul> |
|--------------------------|----------------------------------------------------------------------------------------|

**Version**

Release 9.0

**8.71.3.2** void DCM::DeviceControl::ASI\_SF\_N\_MKII\_GetMasterMuxId ( in unsigned short *BoardNr*, out unsigned short *MasterMuxId* ) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the MasterMux ID of an ASI SFN MKII board.

**Parameters**

|     |                    |                              |
|-----|--------------------|------------------------------|
| in  | <i>BoardNr</i>     |                              |
| out | <i>MasterMuxId</i> | MasterMux ID(range 0..65535) |

**Exceptions**

|                          |                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"> <li>• When called for non-ASI-SFN-MkII boards</li> </ul> |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>• When parse errors occur</li> </ul>                 |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>• When invalid references are passed</li> </ul>      |

**Version**

Release 9.0

**8.71.3.3** void DCM::DeviceControl::ASI\_SF\_N\_MKII\_GetRDCS\_Settings ( in IPS\_RefTS\_t *RefTsOut*, out ASI\_SF\_N\_MKII\_RDCS\_Settings\_t *RDCS\_Settings* ) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported)

Get the RDCS Settings of an output TS.

**Parameters**

|     |                      |                           |
|-----|----------------------|---------------------------|
| in  | <i>RefTsOut</i>      | The output TS             |
| out | <i>RDCS_Settings</i> | settings of a RDCS TS Out |

**Exceptions**

|                         |                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i> | <ul style="list-style-type: none"> <li>• When called for non-ASI-SFN-MkII boards</li> </ul> |
|-------------------------|---------------------------------------------------------------------------------------------|



|                          |                                                                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>• When parse errors occur</li> </ul>                                                                               |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>• When board is not in Deterministic Re-multiplexing mode</li> <li>• When invalid references are passed</li> </ul> |

**Version**

Release 9.0

**8.71.3.4** void DCM::DeviceControl::ASI\_SF\_N\_MKII\_GetTsOutputMode ( in IPS\_RefTS\_t *RefTsOut*, out ASI\_SF\_N\_MKII\_TS\_Output\_Mode\_t *TS\_Mode* ) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Get the TS output mode.

**Parameters**

|     |                 |               |
|-----|-----------------|---------------|
| in  | <i>RefTsOut</i> | The output TS |
| out | <i>TS_Mode</i>  |               |

**Exceptions**

|                          |                                                                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"> <li>• When called for non-ASI-SFN-MkII boards</li> </ul>                                                               |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>• When parse errors occur</li> </ul>                                                                               |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>• When board is not in Deterministic Re-multiplexing mode</li> <li>• When invalid references are passed</li> </ul> |

**Version**

Release 9.0

**8.71.3.5** void DCM::DeviceControl::ASI\_SF\_N\_MKII\_SetBoardMode ( in unsigned short *BoardNr*, in enASI\_SF\_N\_MKII\_BoardMode *BoardMode* ) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Set ASI SFN MKII board mode.

**Parameters**

|    |                  |  |
|----|------------------|--|
| in | <i>BoardNr</i>   |  |
| in | <i>BoardMode</i> |  |

**Exceptions**

|                          |                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"> <li>When called for non-ASI-SFN-MkII boards</li> </ul> |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>When parse errors occur</li> </ul>                 |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>When invalid references are passed</li> </ul>      |

**Version**

Release 9.0

**8.71.3.6** void DCM::DeviceControl::ASI\_SFN\_MKII\_SetMasterMuxId ( in unsigned short *BoardNr*, in unsigned short *MasterMuxId* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Set the MasterMux ID of an ASI SFN MKII board.

**Parameters**

|    |                    |                              |
|----|--------------------|------------------------------|
| in | <i>BoardNr</i>     |                              |
| in | <i>MasterMuxId</i> | MasterMux ID(range 0..65535) |

**Exceptions**

|                          |                                                                                                                                                                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"> <li>When called for non-ASI-SFN-MkII boards</li> </ul>                                                                                                                                           |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>When parse errors occur</li> </ul>                                                                                                                                                           |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>When board is not in Deterministic Re-multiplexing mode</li> <li>When invalid references are passed</li> <li>When invalid output mode is given</li> <li>When writing to FW failed</li> </ul> |

**Version**

Release 9.0

**8.71.3.7** void DCM::DeviceControl::ASI\_SFN\_MKII\_SetRDCS\_Settings ( in IPS\_RefTS\_t *RefTsOut*, in ASI\_SFN\_MKII\_RDCS\_Settings\_t *RDCS\_Settings* ) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported)

Set the RDCS Settings of an output TS.

**Parameters**

|    |                      |                           |
|----|----------------------|---------------------------|
| in | <i>RefTsOut</i>      | The output TS             |
| in | <i>RDCS_Settings</i> | settings of a RDCS TS Out |

**Exceptions**

|                          |                                                                                                                                                                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"> <li>When called for non-ASI-SFN-MkII boards</li> </ul>                                                                                                                                               |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>When parse errors occur</li> </ul>                                                                                                                                                               |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>When board is not in Deterministic Re-multiplexing mode</li> <li>When invalid references are passed</li> <li>When invalid RDCS settings are passed</li> <li>When writing to FW failed</li> </ul> |

**Version**

Release 9.0

**8.71.3.8** void DCM::DeviceControl::ASI\_SFN\_MKII\_SetTsOutputMode ( in IPS\_RefTS\_t *RefTsOut*, in ASI\_SFN\_MKII\_TS\_Output\_Mode\_t *TS\_Mode* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

Set the TS output mode.

**Parameters**

|    |                 |               |
|----|-----------------|---------------|
| in | <i>RefTsOut</i> | The output TS |
| in | <i>TS_Mode</i>  |               |

**Exceptions**

|                          |                                                                                                                                                                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported,:</i>  | <ul style="list-style-type: none"> <li>When called for non-ASI-SFN-MkII boards</li> </ul>                                                                                                                                           |
| <i>OpNotSucceeded,:</i>  | <ul style="list-style-type: none"> <li>When parse errors occur</li> </ul>                                                                                                                                                           |
| <i>OperationFailed,:</i> | <ul style="list-style-type: none"> <li>When board is not in Deterministic Re-multiplexing mode</li> <li>When invalid references are passed</li> <li>When invalid output mode is given</li> <li>When writing to FW failed</li> </ul> |

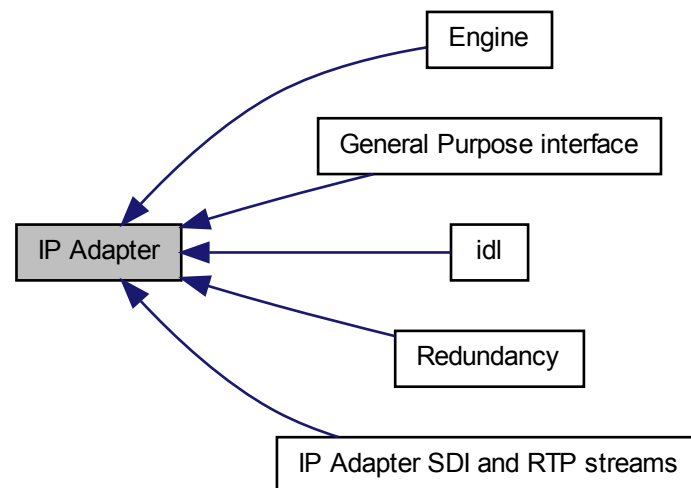
**Version**

Release 9.0

## 8.72 IP Adapter

This contains types, enums and methods to configure the IP Gateway.

Collaboration diagram for IP Adapter:



### Classes

- struct [DCM::DCM\\_Notifications::Messages](#)  
*Notification sent by MB when a new message is available (alarms)*
- struct [DCM::DCM\\_Notifications::DCM\\_TsIdOnIdChange](#)  
*Notification sent by IO when an alarm configured as trigger changes current state (alarms) No parameters given.*
- struct [DCM::DCM\\_Notifications::Output\\_TS\\_Change](#)
- struct [DCM::DCM\\_Notifications::Output\\_TS\\_Delete](#)  
*Notification sent when a TS is deleted (removed from DCM).*
- struct [DCM::DCM\\_Notifications::Output\\_SI\\_TableChng](#)  
*Notification sent when a Table is added (starts streaming) or changed.*
- struct [DCM::DCM\\_Notifications::Output\\_SI\\_TableDel](#)  
*Notification sent when a Table is deleted (stops streaming).*

### Modules

- [IP Adapter SDI and RTP streams](#)  
*This contains types, enums and methods to configure the TSs of the multiplexer part in the device.*
- [General Purpose interface](#)  
*This contains types, enums and methods to get/set GPI settings.*

- [Engine](#)  
*Contains methods to control the Script Engine.*
- [Redundancy](#)  
*Contains methods to for the Anycast Redundancy feature.*
- [idl](#)  
*Contains methods to for engineering tests.*

## Typedefs

- typedef sequence< long > [DCM::DeviceCallback::LongStream](#)  
*A sequence of longs.*
- typedef sequence< LongStream > [DCM::DeviceCallback::NotifDataList](#)

## Enumerations

- enum [DCM::DeviceControl::eGbeSpeedMode\\_t](#) { [DCM::DeviceControl::e1Gbps](#), [DCM::DeviceControl::e10Gbps](#), [DCM::DeviceControl::eGbeSpeed\\_Reserved1](#), [DCM::DeviceControl::eGbeSpeed\\_Reserved2](#) }
- enum [DCM::DeviceControl::eSDI\\_NoStreamMode\\_t](#) { [DCM::DeviceControl::eBlackFrame](#), [DCM::DeviceControl::e0Vdc](#), [DCM::DeviceControl::eNoStream\\_Reserved1](#), [DCM::DeviceControl::eNoStream\\_Reserved2](#), [DCM::DeviceControl::eNoStream\\_Reserved3](#), [DCM::DeviceControl::eNoStream\\_Reserved4](#), [DCM::DeviceControl::eNoStream\\_Reserved5](#) }
- enum [DCM::DeviceControl::enDCG\\_BoardMode\\_t](#) { [DCM::DeviceControl::eDCG\\_BoardMode\\_IP\\_GW](#), [DCM::DeviceControl::eDCG\\_BoardMode\\_ASI\\_GW](#), [DCM::DeviceControl::eDCG\\_BoardMode\\_Reserved\\_1](#), [DCM::DeviceControl::eDCG\\_BoardMode\\_Reserved\\_2](#), [DCM::DeviceControl::eDCG\\_BoardMode\\_Reserved\\_3](#), [DCM::DeviceControl::eDCG\\_BoardMode\\_Reserved\\_4](#), [DCM::DeviceControl::eDCG\\_BoardMode\\_Reserved\\_5](#) }
- enum [DCM::DeviceControl::enMValue\\_t](#) { [DCM::DeviceControl::eM1\\_000](#), [DCM::DeviceControl::eM1\\_001](#) }

## Functions

- void [DCM::DeviceControl::BoardCfgSetSpeedMode](#) (in unsigned short SlotNumber, in eGbeSpeedMode\_t SpeedMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)  
*Set Gbe port pair speed to be used.*
- void [DCM::DeviceControl::BoardCfgGetSpeedMode](#) (in unsigned short SlotNumber, out eGbeSpeedMode\_t SpeedMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get the Gbe port pair speed that is currently used.*
- void [DCM::DeviceControl::HotSwapIO\\_Board](#) (in unsigned short BoardNr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Prepare a board for hot swap.*
- void [DCM::DeviceControl::SetMonitoredPort](#) (in unsigned short SlotNumber, in unsigned short SdiPortNbr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Mirror an (SDI) port, so that it can be monitored.*
- void [DCM::DeviceControl::GetMonitoredPort](#) (in unsigned short SlotNumber, out unsigned short PortNbr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get Mirror an (SDI) port, so that it can be monitored.*

- void [DCM::DeviceControl::SetVideoClockSync](#) (in unsigned short SlotNumber, in boolean bUseExtRef) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Indicate if the external clock reference input should be used or not to synchronize the output video or audio signals on.*
- void [DCM::DeviceControl::GetVideoClockSync](#) (in unsigned short SlotNumber, out boolean bUseExtRef) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Check if the external clock reference input is used or not to synchronize the output video or audio signals on.*
- void [DCM::DeviceControl::SetStreamClockSync](#) (in unsigned short SlotNumber, in boolean bUseExtRef) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Indicate if the external clock reference input should be used or not to synchronize the output video or audio signals on.*
- void [DCM::DeviceControl::GetStreamClockSync](#) (in unsigned short SlotNumber, out boolean bUseExtRef) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Check if the external clock reference input is used or not to synchronize the output video or audio signals on.*
- void [DCM::DeviceControl::SetSDI\\_NoStreamMode](#) (in unsigned short SlotNumber, in eSDI\_NoStreamMode\_t Mode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Specify output SDI or AES no stream mode.*
- void [DCM::DeviceControl::GetSDI\\_NoStreamMode](#) (in unsigned short SlotNumber, out eSDI\_NoStreamMode\_t Mode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Gets the output SDI no stream mode.*
- void [DCM::DeviceControl::DCG\\_GetBoardMode](#) (in unsigned short BoardNr, out enDCG\_BoardMode\_t enBoardMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get the Gateway board mode.*
- void [DCM::DeviceControl::DCG\\_SetBoardMode](#) (in unsigned short BoardNr, in enDCG\_BoardMode\_t enBoardMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Set the gateway board mode.*
- void [DCM::DeviceControl::DCG\\_SetMValue](#) (in unsigned short BoardNr, in enMValue\_t enMValue) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- enMValue\_t [DCM::DeviceControl::DCG\\_GetMValue](#) (in unsigned short BoardNr) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- void [DCM::DeviceCallback::Notify](#) (in string NotificationName, in NotifDataList EventDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Notifies changes in the server that can be used as trigger.*

### Variables

- unsigned short [DCM::DeviceControl::IPS\\_Ref\\_t::BoardNr](#)  
*The board location the board sits in.*
- unsigned short [DCM::DeviceControl::IPS\\_Ref\\_t::PortNr](#)  
*The physical port.*
- IPS\_Ref\_t [DCM::DeviceControl::IPS\\_RefTS\\_t::PhysRef](#)  
*See [IPS\\_Ref\\_t](#).*
- unsigned long [DCM::DeviceControl::IPS\\_RefTS\\_t::Ref](#)

*This is the TS index.*

- unsigned short `DCM::DeviceControl::MM_ID_t::MM_TypeID`  
*input/output + type of message or measurement*
- `IPS_RefTS_t` `DCM::DeviceControl::MM_ID_t::Ref`  
*board + port + TSIndex*
- unsigned short `DCM::DeviceControl::MM_ID_t::SubID1`
- unsigned short `DCM::DeviceControl::MM_ID_t::SubID2`
- long `DCM::DeviceControl::Time::Year`  
*From year 0 onwards.*
- octet `DCM::DeviceControl::Time::Month`  
*From 1 to 12.*
- octet `DCM::DeviceControl::Time::DayOfMonth`  
*From 1 to 28, 29, 30 or 31.*
- octet `DCM::DeviceControl::Time::Hour`  
*From 0 to 23.*
- octet `DCM::DeviceControl::Time::Minute`  
*From 0 to 59.*
- octet `DCM::DeviceControl::Time::Second`  
*From 0 to 59.*
- eNTP\_TallyCodes `DCM::DeviceControl::NTP_Stats_t::TallyCode`
- string `DCM::DeviceControl::NTP_Stats_t::RefID`  
*Reference Clock Identifier.*
- octet `DCM::DeviceControl::NTP_Stats_t::Stratum`  
*Defines the distance to the reference clock.*
- eNTP\_RefClockTypes `DCM::DeviceControl::NTP_Stats_t::RefClockType`
- long `DCM::DeviceControl::NTP_Stats_t::LastPoll`  
*Time that elapsed since last poll attempt.*
- long `DCM::DeviceControl::NTP_Stats_t::PollInterval`  
*Current interval between poll attempts, in seconds.*
- string `DCM::DeviceControl::NTP_Stats_t::Reachability`  
*Indicates the reachability status of the peer as an octal number.*
- double `DCM::DeviceControl::NTP_Stats_t::Delay`  
*Indicates the roundtrip delay of the peer clock relative to the local clock over the network path between them, in seconds.*
- double `DCM::DeviceControl::NTP_Stats_t::Offset`  
*Indicates the offset of the peer clock relative to the local clock, in seconds.*
- double `DCM::DeviceControl::NTP_Stats_t::Jitter`  
*The estimated time error of the system clock measured as an exponential average of RMS time differences.*
- string `DCM::DeviceControl::NTP_Info_t::IP`
- `NTP_Stats_t` `DCM::DeviceControl::NTP_Info_t::Stats`
- `IPS_RefTS_t` `DCM::DeviceControl::Table_Sync_Info_t::RefTS`  
*input TS where table has to be retrieved from*
- unsigned long `DCM::DeviceControl::Table_Sync_Info_t::TableId`  
*0x70 for TDT of 0x73 for TOT or 0xCD for STT*
- unsigned short `DCM::DeviceControl::Table_Sync_Info_t::Pid`  
*pid value. Typically 0x14 for TDT/TOT and 0x1FFB for STT < If INVALID\_PID\_VALUE (0xFFFF) is specified then typical pid value < will be used automatically*



- short `DCM::DeviceControl::Table_Sync_Info_t::Offset`  
*value in ms that is added to the T\*T time before applying it to the system clock. < Can be a negative value!  
Value in seconds (steps of 1000ms) to correct GPS < time to UTC time. Not supported for the moment and  
always reset to 0.*
- string `DCM::DeviceControl::NotifData_t::Name`
- unsigned long `DCM::DeviceControl::NotifData_t::Behaviour`  
*0: send buffered, 1: send directly*
- string `DCM::DeviceControl::TrapDestination::IPAddress`
- string `DCM::DeviceControl::TrapDestination::TrapCommunity`  
*Max 40 char.*
- string `DCM::DeviceControl::SNMPCommunity::Community`  
*Max 40 char.*
- SNMPOperationRights `DCM::DeviceControl::SNMPCommunity::Rights`
- char `DCM::DeviceControl::VersionParts::VersionType`  
*'A' for a, 'B' for b, D for demo and V for release*
- short `DCM::DeviceControl::VersionParts::MajorNumber`
- short `DCM::DeviceControl::VersionParts::MinorNumber`
- short `DCM::DeviceControl::VersionParts::BuildNumber`
- string `DCM::DeviceControl::VersionInfo::ComponentName`  
*MAX string length = 20.*
- string `DCM::DeviceControl::VersionInfo::VersionName`  
*MAX string length = 20.*
- VersionParts `DCM::DeviceControl::VersionInfo::VersParts`
- string `DCM::DeviceControl::BoardIdentification::BoardName`
- string `DCM::DeviceControl::BoardIdentification::OrderNumber`
- string `DCM::DeviceControl::BoardIdentification::SerialNumber`
- string `DCM::DeviceControl::BoardIdentification::UserName`
- string `DCM::DeviceControl::BoardIdentification::SlotName`  
*Max 40 chars e.g. Input, Output, Aggregate, ... (refers to the backplane name)*
- string `DCM::DeviceControl::BoardIdentification::SlotId`  
*Max 5 chars e.g. 1A (refers to the backplane id)*
- VersionInfoList `DCM::DeviceControl::BoardIdentification::BoardVersion`
- string `DCM::DeviceControl::UniqueDeviceId_t::Id`  
*The ID of the info field.*
- string `DCM::DeviceControl::UniqueDeviceId_t::Info`  
*Unique device identifier info field.*
- unsigned long `DCM::DeviceControl::ModuleExceptionTrace_t::ModuleId`
- string `DCM::DeviceControl::ModuleExceptionTrace_t::ModuleName`
- boolean `DCM::DeviceControl::ModuleExceptionTrace_t::ExceptionTraceEnabled`
- unsigned short `DCM::DeviceControl::BoardInfo_t::BoardNumber`  
*The board location the board sits in.*
- eBoardType `DCM::DeviceControl::BoardInfo_t::BoardType`  
*The type. See DCM\_Types.idl.*
- unsigned short `DCM::DeviceControl::BoardInfo_V2_t::BoardNumber`  
*The board location the board sits in.*
- eBoardType\_V2 `DCM::DeviceControl::BoardInfo_V2_t::BoardType`  
*The type. See DCM\_Types.idl.*
- IPS\_Ref\_t `DCM::DeviceControl::BoardCfg_t::Location`

- The board location and port.*

  - IPS\_Ref\_t [DCM::DeviceControl::BoardCfg\\_t::BackupLocation](#)

*For ASI a backup input can be specified.*
  - string [DCM::DeviceControl::BoardCfg\\_t::UserName](#)

*A user defined name. Max. 40 characters.*
  - eIOInterfaceType [DCM::DeviceControl::BoardCfg\\_t::IOInterfaceType](#)

*The type of the port (ASI/GbE).*
  - eIOType [DCM::DeviceControl::BoardCfg\\_t::IOType](#)

*The direction of the port.*
  - boolean [DCM::DeviceControl::BoardCfg\\_t::Enabled](#)

*Whether this port is enabled or disabled.*
  - unsigned long [DCM::DeviceControl::BoardCfg\\_t::PortProperty](#)

*Read only Bitmap used by GUI to display specific icons. Bit: 0 Individual GbE port streaming state Bit: 1 This port is an SFP port (GbE, Sdi, ...). A user can plug in an appropriate SFP. Bit: 2 This port is a DetMux RDCS TS port. Bit: 31 Monitoring port, restricted functionality Other bits: Future use. (0 for the moment)*
- IPS\_Ref\_t [DCM::DeviceControl::BoardCfg\\_V2\\_t::Location](#)

*The board location and port.*
- IPS\_Ref\_t [DCM::DeviceControl::BoardCfg\\_V2\\_t::BackupLocation](#)

*For ASI a backup input can be specified.*
- string [DCM::DeviceControl::BoardCfg\\_V2\\_t::UserName](#)

*A user defined name. Max. 40 characters.*
- eIOInterfaceType\_V2 [DCM::DeviceControl::BoardCfg\\_V2\\_t::IOInterfaceType](#)

*The type of the port (ASI/GbE).*
- eIOType\_V2 [DCM::DeviceControl::BoardCfg\\_V2\\_t::IOType](#)

*The direction of the port.*
- ePortEnabledMode [DCM::DeviceControl::BoardCfg\\_V2\\_t::PortEnabledMode](#)

*How the port mode is configured.*
- boolean [DCM::DeviceControl::BoardCfg\\_V2\\_t::EnabledStatus](#)

*Whether the status of this port is enabled or disabled.*
- unsigned long [DCM::DeviceControl::BoardCfg\\_V2\\_t::PortProperty](#)

*Read only Bitmap used by GUI to display specific icons. Bit: 0 Individual GbE port streaming state Bit: 1 This port is an SFP port (GbE, Sdi, ...). A user can plug in an appropriate SFP. Bit: 2 This port is a DetMux RDCS TS port. Bit: 31 Monitoring port, restricted functionality Other bits: Future use. (0 for the moment)*
- string [DCM::DeviceControl::ComponentTemperature\\_t::Name](#)

*Possible values: "FEC Die" (I/O board, DaughterBoard 2) "FEC Ambient" (I/O board, DaughterBoard 2) "Ambient 1" (Main board, DaughterBoard 0) "Ambient 2" (Main board, DaughterBoard 0)*
- long [DCM::DeviceControl::ComponentTemperature\\_t::Temperature](#)

*The temperature of this component in degrees centigrade.*
- unsigned short [DCM::DeviceControl::BoardTemperature\\_t::DaughterBoard](#)

*The daughter board identification as returned in BoardsConnected.*
- ComponentTemperature\_List\_t [DCM::DeviceControl::BoardTemperature\\_t::ComponentTemperature\\_List](#)
- unsigned long [DCM::DeviceControl::IP\\_Subnet\\_t::Properties](#)

*Read only bitmap containing properties for this Subnet Bit 0: Read only This subnet is automatically configured and cannot be changed Bit 1: Main - This subnet is the main subnet.*
- string [DCM::DeviceControl::IP\\_Subnet\\_t::IP\\_Addr](#)
- unsigned short [DCM::DeviceControl::IP\\_Subnet\\_t::PrefixLength](#)
- string [DCM::DeviceControl::IP\\_Subnet\\_t::DefaultGateway](#)

- IP\_List\_t [DCM::DeviceControl::IP\\_Subnet\\_t::AliasList](#)
- boolean [DCM::DeviceControl::NicTeam\\_Settings::bNicTeam\\_Enabled](#)
- eNicTeamMode [DCM::DeviceControl::NicTeam\\_Settings::Mode](#)
- NicTeam\_MemberList\_t [DCM::DeviceControl::NicTeam\\_Settings::MemberList](#)
- unsigned long [DCM::DeviceControl::NicTeam\\_Settings::UpDelay](#)
- unsigned long [DCM::DeviceControl::NicTeam\\_Settings::DownDelay](#)
- IPS\_Ref\_t [DCM::DeviceControl::NicTeam\\_MemberStatus\\_t::Port](#)
- eLinkStatus [DCM::DeviceControl::NicTeam\\_MemberStatus\\_t::Status](#)
- unsigned long [DCM::DeviceControl::NicTeam\\_MemberStatus\\_t::FailureCount](#)
- IPS\_Ref\_t [DCM::DeviceControl::NicTeamStatus::ActivePort](#)
- NicTeam\_MemberStatusList\_t [DCM::DeviceControl::NicTeamStatus::MemberStatusList](#)
- string [DCM::DeviceControl::IPS\\_UDP\\_Socket\\_t::IP](#)
- unsigned short [DCM::DeviceControl::IPS\\_UDP\\_Socket\\_t::Port](#)  
*Recommended UDP Port range: 1024 (0X400) .. 65535 (0xFFFF).*
- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_InputTS\\_t::RefIn](#)  
*The location of the TS (Board, Port and Ref).*
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::IPS\\_InputTS\\_t::Socket](#)  
*Unique IP-Address and UDP port combination.*
- unsigned long [DCM::DeviceControl::IPS\\_InputTS\\_t::TSID](#)  
*TSID range: [0..65535].*
- unsigned long [DCM::DeviceControl::IPS\\_InputTS\\_t::ONID](#)  
*ONID range: [0..65535].*
- unsigned long [DCM::DeviceControl::IPS\\_InputTS\\_t::NumberOfServices](#)  
*Number of services present on this input TS.*
- unsigned long [DCM::DeviceControl::IPS\\_InputTS\\_t::TS\\_InProperty](#)  
*Read only Bitmap used by GUI to display specific icons (. . .)*
- eEsTypeStandard [DCM::DeviceControl::IPS\\_InputTS\\_t::InputStandard](#)  
*Indicates how different PID (ES) types must be interpreted.*
- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_Gbe\\_InputTS\\_t::RefIn](#)  
*The location of the TS (Board, Port and Ref).*
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::IPS\\_Gbe\\_InputTS\\_t::Socket](#)  
*Unique IP-Address and UDP port combination.*
- string [DCM::DeviceControl::IPS\\_Gbe\\_InputTS\\_t::SourceIP](#)  
*The source IP-Address of the incoming TS.*
- IPS\_RefTS\_t [DCM::DeviceControl::Debug\\_Gbe\\_InputTS\\_t::RefIn](#)  
*The location of the TS (Board, Port and Ref).*
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::Debug\\_Gbe\\_InputTS\\_t::Socket](#)  
*Unique IP-Address and UDP port combination.*
- string [DCM::DeviceControl::Debug\\_Gbe\\_InputTS\\_t::SourceIP](#)  
*The source IP-Address of the incoming TS.*
- unsigned long [DCM::DeviceControl::Debug\\_Gbe\\_InputTS\\_t::HwIndex](#)  
*The hardware index for a stream.*
- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_ChangeInputTS\\_t::RefIn](#)  
*The location of the TS (Board, Port and Ref).*
- eEsTypeStandard [DCM::DeviceControl::IPS\\_ChangeInputTS\\_t::InputStandard](#)  
*Indicates how different PID (ES) types must be interpreted.*
- IPS\_RefTS\_t [DCM::DeviceControl::Debug\\_Gbe\\_OutputTS\\_t::RefOut](#)

- The location of the TS (Board, Port and Ts Ident).*

  - IPS\_UDP\_Socket\_t [DCM::DeviceControl::Debug\\_Gbe\\_OutputTS\\_t::DestSocket](#)

*Unique destination IP-Address and UDP port combination.*
- unsigned long [DCM::DeviceControl::Debug\\_Gbe\\_OutputTS\\_t::HwIndex](#)

*The hardware index for a stream.*
- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_OutputTS\\_t::Ref](#)

*The location of the TS (Board, Port and Ref).*
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::IPS\\_OutputTS\\_t::Socket](#)

*Unique IPv4-Address and UDP port combination.*
- unsigned long [DCM::DeviceControl::IPS\\_OutputTS\\_t::Bitrate](#)

*Bitrate of the outgoing TS (in bps).*
- eIPS\_StreamingState [DCM::DeviceControl::IPS\\_OutputTS\\_t::State](#)
- unsigned long [DCM::DeviceControl::IPS\\_OutputTS\\_t::TSID](#)

*TSID range: 0..65535.*
- unsigned long [DCM::DeviceControl::IPS\\_OutputTS\\_t::ONID](#)

*ONID range: 0..65535.*
- unsigned long [DCM::DeviceControl::IPS\\_OutputTS\\_t::NumberOfServices](#)

*Number of services present on this output TS.*
- unsigned long [DCM::DeviceControl::IPS\\_OutputTS\\_t::TS\\_OutProperty](#)

*Read only Bitmap used by GUI to display specific icons (.).*
- eEsTypeStandard [DCM::DeviceControl::IPS\\_OutputTS\\_t::OutputStandard](#)

*Indicates how different PID (ES) types must be interpreted.*
- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_OutputTS\\_V2\\_t::Ref](#)

*The location of the TS (Board, Port and Ref).*
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::IPS\\_OutputTS\\_V2\\_t::Socket](#)

*Unique IPv4-Address and UDP port combination.*
- unsigned long [DCM::DeviceControl::IPS\\_OutputTS\\_V2\\_t::Bitrate](#)

*Bitrate of the outgoing TS (in bps).*
- enStreamingSetting\_t [DCM::DeviceControl::IPS\\_OutputTS\\_V2\\_t::Setting](#)

*Streaming setting of the outgoing TS.*
- eIPS\_StreamingState [DCM::DeviceControl::IPS\\_OutputTS\\_V2\\_t::State](#)
- unsigned long [DCM::DeviceControl::IPS\\_OutputTS\\_V2\\_t::TSID](#)

*Read only state.*
- unsigned long [DCM::DeviceControl::IPS\\_OutputTS\\_V2\\_t::ONID](#)

*ONID range: 0..65535.*
- unsigned long [DCM::DeviceControl::IPS\\_OutputTS\\_V2\\_t::NumberOfServices](#)

*Number of services present on this output TS.*
- unsigned long [DCM::DeviceControl::IPS\\_OutputTS\\_V2\\_t::TS\\_OutProperty](#)

*Read only Bitmap used by GUI to display specific icons (.).*
- eEsTypeStandard [DCM::DeviceControl::IPS\\_OutputTS\\_V2\\_t::OutputStandard](#)

*Indicates how different PID (ES) types must be interpreted.*
- boolean [DCM::DeviceControl::IPS\\_LookupTS\\_t::bInput](#)

*Indicates if it is an input or output TS.*
- IPS\_Ref\_t [DCM::DeviceControl::IPS\\_LookupTS\\_t::Ref](#)

*The location to search (Board, Port). Board number is ignored.*
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::IPS\\_LookupTS\\_t::Socket](#)

*Will be ignored on ASI board.*

- IPS\_LookupTS\_t DCM::DeviceControl::IPS\_ReferenceTS\_t::LookUpTS
- unsigned long DCM::DeviceControl::IPS\_ReferenceTS\_t::Ref
- IPS\_RefTS\_t DCM::DeviceControl::IPS\_OutPID\_Data\_t::RefOut
- IPS\_RefTS\_t DCM::DeviceControl::IPS\_OutPID\_Data\_t::RefIn
- unsigned short DCM::DeviceControl::IPS\_OutPID\_Data\_t::InputPID
- unsigned short DCM::DeviceControl::IPS\_OutPID\_Data\_t::OutputPID
- IPS\_RefTS\_t DCM::DeviceControl::IPS\_OutPID\_Data2\_t::RefOut
- IPS\_RefTS\_t DCM::DeviceControl::IPS\_OutPID\_Data2\_t::RefIn
- unsigned short DCM::DeviceControl::IPS\_OutPID\_Data2\_t::InputPID
- unsigned short DCM::DeviceControl::IPS\_OutPID\_Data2\_t::OutputPID
- boolean DCM::DeviceControl::IPS\_OutPID\_Data2\_t::FixedPIDRemap
 

*If Output PID is fixed, this variable is true.*
- unsigned long DCM::DeviceControl::IPS\_OutPID\_Data2\_t::PID\_Property
 

*Read only Bitmap used by GUI to display specific icons < Bit 0: PID present in input TS or not < TRUE means present < FALSE: PID not present < Remark: present or not present is based on SI < For unreferenced pids based upon presence of input pid < Bit 1: ignore bit (used as scrambling bit in valid component/service) < Bit 4: input pid scrambled < TRUE means scrambled.*
- long DCM::DeviceControl::IPS\_OutPID\_Data2\_t::CASystemID
 

*Only for EMMs: to which CA system does the EMM belong.*
- IPS\_RefTS\_t DCM::DeviceControl::IPS\_InPID\_Data\_t::RefIn
- unsigned short DCM::DeviceControl::IPS\_InPID\_Data\_t::InputPID
- long DCM::DeviceControl::IPS\_InPID\_Data\_t::CASystemID
 

*Only for EMMs: to which CA system does the EMM belong.*
- IPS\_RefTS\_t DCM::DeviceControl::IPS\_InPID\_Data\_V2\_t::RefIn
- unsigned short DCM::DeviceControl::IPS\_InPID\_Data\_V2\_t::InputPID
- long DCM::DeviceControl::IPS\_InPID\_Data\_V2\_t::CASystemID
 

*Only for EMMs: to which CA system does the EMM belong.*
- unsigned long DCM::DeviceControl::IPS\_InPID\_Data\_V2\_t::PID\_Property
 

*Read-only bitmap used by GUI to display specific icons < Bit 0: input signal present (true) or not (false)*
- IPS\_RefTS\_t DCM::DeviceControl::InEMM\_Ref\_t::m\_RefTS
 

*The Slot, Port and Index of the input TS.*
- unsigned short DCM::DeviceControl::InEMM\_Ref\_t::m\_usPID
 

*The reference to the input EMM pid.*
- string DCM::DeviceControl::EMM\_Data\_t::ProxyName
- ePID\_Type DCM::DeviceControl::EMM\_Data\_t::Type
- unsigned long DCM::DeviceControl::EMM\_Data\_t::ClientID
- unsigned long DCM::DeviceControl::EMM\_Data\_t::ChannelID
- unsigned long DCM::DeviceControl::EMM\_Data\_t::StreamID
- unsigned long DCM::DeviceControl::EMM\_Data\_t::DataID
- InEMM\_Ref\_t DCM::DeviceControl::EMM\_Data\_t::EMM\_Ref
- eMpegStandard DCM::DeviceControl::Ref\_SI\_table\_ext\_t::Standard
- unsigned short DCM::DeviceControl::Ref\_SI\_table\_ext\_t::table\_id
- unsigned short DCM::DeviceControl::Ref\_SI\_table\_ext\_t::table\_type
- string DCM::DeviceControl::Ref\_SI\_table\_ext\_t::TableName
- Ref\_SI\_table\_ext\_t DCM::DeviceControl::SI\_Table\_Period\_t::Ref
- unsigned long DCM::DeviceControl::SI\_Table\_Period\_t::Period
- Ref\_SI\_table\_ext\_t DCM::DeviceControl::SI\_Table\_GenerationMode\_t::Ref
- ePIDPassingStatus DCM::DeviceControl::SI\_Table\_GenerationMode\_t::Mode
- IPS\_RefTS\_t DCM::DeviceControl::TS\_SI\_Table\_Periods\_t::TS

- SI\_Table\_Period\_List\_t DCM::DeviceControl::TS\_SI\_Table\_Periods\_t::Periods
- unsigned long DCM::DeviceControl::TableKeys\_t::TableId
- unsigned long DCM::DeviceControl::TableKeys\_t::OnId  
*Set to 0xFFFFFFFF when not used.*
- unsigned long DCM::DeviceControl::TableKeys\_t::TsId  
*Set to 0xFFFFFFFF when not used.*
- unsigned long DCM::DeviceControl::TableKeys\_t::TableIdExt  
*SID,.... Set to 0xFFFFFFFF when not used.*
- string DCM::DeviceControl::TOT\_Timezone\_t::m\_CountryCode
- octet DCM::DeviceControl::TOT\_Timezone\_t::m\_CountryRegionId
- string DCM::DeviceControl::TOT\_Timezone\_t::m\_Timezone
- IPS\_RefTS\_t DCM::DeviceControl::TS\_TOT\_Timezone\_t::TS
- TOT\_Timezone\_List\_t DCM::DeviceControl::TS\_TOT\_Timezone\_t::Timezones
- long DCM::DeviceControl::RoutingStatusRecord\_t::LineNumber  
*Line number on which error occurred.*
- eRoutingStatusSeverity DCM::DeviceControl::RoutingStatusRecord\_t::Severity  
*Warning, Error, Fatal.*
- string DCM::DeviceControl::RoutingStatusRecord\_t::Message  
*Text description of the error.*
- IPS\_RefTS\_t DCM::DeviceControl::IPS\_RefPid\_t::RefTS  
*The location (slot, port) and stream.*
- unsigned short DCM::DeviceControl::IPS\_RefPid\_t::Pid  
*Value of the PID.*
- IPS\_RefPid\_t DCM::DeviceControl::CompPidES\_t::InputPid  
*Value of the PID at the input TS.*
- unsigned long DCM::DeviceControl::CompPidES\_t::Sid  
*Value of the SID at the output TS.*
- octet DCM::DeviceControl::CompPidES\_t::streamtype  
*streamtype as it will be added in the PMT. Value: 0..255*
- IPS\_RefPid\_t DCM::DeviceControl::CompPidES\_V2\_t::InputPid  
*Value of the PID at the input TS. < If in the pid ref, board and port are set to 0xFFFF and input TS ref is 0xFFFFFFFF, < this means it is a dummy output elementary stream. A reference for this < ES will be created in the outgoing PMT. On the output TS, the input pid value < will be used as unique identifier and preferred output pid for the dummy ES.*
- unsigned long DCM::DeviceControl::CompPidES\_V2\_t::Sid  
*Value of the SID at the output TS.*
- octet DCM::DeviceControl::CompPidES\_V2\_t::streamtype  
*streamtype as it will be added in the PMT. Value: 0..255*
- eEsTypeStandard DCM::DeviceControl::CompPidES\_V2\_t::EsTypeStandard  
*The standard of the input TS : DVB, ATSC or Motorola < (necessary to correctly interpret the ES type during matching) < Will only be used for dummy ES, else the real input TS standard < be used.*
- IPS\_RefTS\_t DCM::DeviceControl::TS\_AutoPassRules::InputRef  
*The input TS to monitor/subscribe to.*
- boolean DCM::DeviceControl::TS\_AutoPassRules::PassDeleteUnref  
*read-write; true = unreferenced pids auto passed/deleted; false = no auto pass/delete of unreferenced pids*
- boolean DCM::DeviceControl::TS\_AutoPassRules::PassKeepEMMs  
*read-write; true = EMMs auto passed ; false = no auto pass of EMMs*
- boolean DCM::DeviceControl::TS\_AutoPassRules::PassKeepServices



- read-write; true = services auto passed ; false = no auto pass of services*
- boolean [DCM::DeviceControl::TS\\_AutoPassRulesDisableFlags::UnrefRuleDisabled](#)  
*read-only; true = the unref PID rule is disabled by system; false = the unref PID rule can be configured by the user;*
- boolean [DCM::DeviceControl::TS\\_AutoPassRulesDisableFlags::EMM\\_RuleDisabled](#)  
*read-only; true = the EMM rule is disabled by system; false = the EMM rule can be configured by the user;*
- boolean [DCM::DeviceControl::TS\\_AutoPassRulesDisableFlags::ServiceRuleDisabled](#)  
*read-only; true = the service rule is disabled by system; false the service rule can be configured by the user;*
- boolean [DCM::DeviceControl::DefaultAutoPassRules::PassDeleteESs](#)  
*read-write; true = ESs are auto passed/deleted; false = block of ESs; default true*
- boolean [DCM::DeviceControl::DefaultAutoPassRules::PassDeleteECMs](#)  
*read-write; true = ECMs are auto passed/deleted; false = block of ECMs; default true*
- boolean [DCM::DeviceControl::DefaultAutoPassRules::PassDeleteES\\_ECMs](#)  
*read-write; true = ES\_ECMs are auto passed/deleted; false = block of ES\_ECMs*
- boolean [DCM::DeviceControl::Service\\_AutoPassRules::PassDeleteESs](#)  
*read-write; true = ESs are auto passed/deleted; false = block of ESs; default true*
- boolean [DCM::DeviceControl::Service\\_AutoPassRules::PassDeleteECMs](#)  
*read-write; true = ECMs are auto passed/deleted; false = block of ECMs; default true*
- boolean [DCM::DeviceControl::Service\\_AutoPassRules::PassDeleteES\\_ECMs](#)  
*read-write; true = ES\_ECMs are auto passed/deleted; false = block of ES\_ECMs*
- boolean [DCM::DeviceControl::Service\\_AutoPassRules::ES\\_RuleDisabled](#)  
*read-only; true = ES rule is disabled and PassDeleteESs cannot be changed by the user; false = PassDeleteESs can be configured by the user;*
- boolean [DCM::DeviceControl::Service\\_AutoPassRules::ECM\\_RuleDisabled](#)  
*read-only; true = ECM rule is disabled and PassDeleteECMs cannot be changed by the user; false = PassDeleteECMs can be configured by the user;*
- boolean [DCM::DeviceControl::Service\\_AutoPassRules::ES\\_ECM\\_RuleDisabled](#)  
*read-only; true = ES\_ECM rule is disabled and PassDeleteES\_ECMs cannot be changed by the user; false = PassDeleteES\_ECMs can be configured by the user;*
- IPS\_RefTS\_t [DCM::DeviceControl::SI\\_AutoPassRules\\_t::InputRef](#)  
*TS from which to auto-pass.*
- unsigned short [DCM::DeviceControl::SI\\_AutoPassRules\\_t::InputPid](#)  
*PID from which to auto-pass.*
- unsigned long [DCM::DeviceControl::SI\\_AutoPassRules\\_t::TableId](#)  
*TID to auto-pass - Use 0x4F for EITo p/f.*
- unsigned short [DCM::DeviceControl::SI\\_AutoPassRules\\_t::OutputPid](#)  
*PID on which to play out autopassed tables.*
- TableKeys\_List\_t [DCM::DeviceControl::SI\\_AutoPassRules\\_t::ExceptionList](#)  
*List of tables which will not be auto-passed.*
- IPS\_RefTS\_t [DCM::DeviceControl::OutTS\\_InsertCATDescriptors\\_t::RefTsOut](#)
- eInsertCATDescriptors [DCM::DeviceControl::OutTS\\_InsertCATDescriptors\\_t::InsertCATDescriptors](#)
- eTimeBaseSelectionMode [DCM::DeviceControl::TimeBaseSelectionMode\\_t::Mode](#)
- unsigned long [DCM::DeviceControl::TimeBaseSelectionMode\\_t::SID](#)  
*Only for eTBS\_ForcedPCR: the ServiceId to be used/that is in use.*
- boolean [DCM::DeviceControl::TimeBaseSelectionMode\\_t::FollowDefaultRule](#)  
*Indicates if the TS follows the board level default.*
- IPS\_RefTS\_t [DCM::DeviceControl::InTS\\_TimeBaseSelectionMode\\_t::RefTSIn](#)
- TimeBaseSelectionMode\_t [DCM::DeviceControl::InTS\\_TimeBaseSelectionMode\\_t::TBS\\_Mode](#)

- unsigned short [DCM::DeviceControl::BoardDejitterCfg\\_t::VbrLatency](#)  
*The VBR dejitter latency in msec, should be 110ms <= latency <= 180.*
- unsigned short [DCM::DeviceControl::BoardDejitterCfg\\_t::CbrLatency](#)  
*The CBR dejitter latency in msec, should be 10 <= latency <= 110.*
- boolean [DCM::DeviceControl::BoardDejitterCfg\\_t::EnableCbrLatency](#)  
*If true, CBR dejittered streams will use the CBR latency.*
- eTimeBaseSelectionMode\_V2 [DCM::DeviceControl::TimeBaseSelectionMode\\_V2\\_t::Mode](#)
- unsigned long [DCM::DeviceControl::TimeBaseSelectionMode\\_V2\\_t::SID](#)  
*Only for eTBS\_ForcedPCR: the ServiceId to be used/that is in use.*
- boolean [DCM::DeviceControl::TimeBaseSelectionMode\\_V2\\_t::FollowDefaultRule](#)  
*Indicates if the TS follows the board level default.*
- boolean [DCM::DeviceControl::TimeBaseSelectionMode\\_V2\\_t::FastLockMode](#)
- IPS\_RefTS\_t [DCM::DeviceControl::InTS\\_TimeBaseSelectionMode\\_V2\\_t::RefTSIn](#)
- TimeBaseSelectionMode\_V2\_t [DCM::DeviceControl::InTS\\_TimeBaseSelectionMode\\_V2\\_t::TBS-Mode](#)
- IPS\_RefTS\_t [DCM::DeviceControl::InTsExistenceReasons\\_t::RefTs](#)
- unsigned long [DCM::DeviceControl::InTsExistenceReasons\\_t::ExistenceBitmap](#)
- IPS\_RefTS\_t [DCM::DeviceControl::GbeIO\\_IP\\_Settings\\_t::Ref](#)  
*Reference to the output stream.*
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::GbeIO\\_IP\\_Settings\\_t::DestSocket](#)  
*Unique destination IPv4 or IPv6-Address and UDP port combination.*
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::GbeIO\\_IP\\_Settings\\_t::SrcSocket](#)  
*for future use*
- unsigned short [DCM::DeviceControl::GbeIO\\_IP\\_Settings\\_t::TrafficClass\\_TOS](#)  
*for future use - default value 0*
- unsigned short [DCM::DeviceControl::GbeIO\\_IP\\_Settings\\_t::HopLimit\\_TTL](#)  
*for future use - default value 64*
- unsigned long [DCM::DeviceControl::GbeIO\\_IP\\_Settings\\_t::IPv6\\_FlowLabel](#)  
*for future use - default value 0*
- unsigned short [DCM::DeviceControl::ForbiddenPidRange\\_t::LowerPidValue](#)  
*Lower limit of the forbidden pid range.*
- unsigned short [DCM::DeviceControl::ForbiddenPidRange\\_t::UpperPidValue](#)  
*Upper limit of the forbidden pid range (should be > LowerPidValue)*
- IPS\_RefTS\_t [DCM::DeviceControl::OutTS\\_NitInPat\\_t::RefTsOut](#)
- eNitInPat [DCM::DeviceControl::OutTS\\_NitInPat\\_t::NitInPat](#)
- ePriorityBitMode [DCM::DeviceControl::PriorityBitMode\\_t::Mode](#)
- boolean [DCM::DeviceControl::PriorityBitMode\\_t::FollowDefaultRule](#)  
*readonly flag indicating if default priority bit settings are used*
- IPS\_RefTS\_t [DCM::DeviceControl::InTS\\_PriorityBit\\_t::RefIn](#)  
*The location of the input TS (Board, Port and Ref).*
- PriorityBitMode\_t [DCM::DeviceControl::InTS\\_PriorityBit\\_t::PriorityBitSetting](#)  
*Indicates how the priority bit should be handled.*
- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_t::OutRef](#)  
*The location of the OutputTS (Board, Port and Ref).*
- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_t::InRef](#)  
*The location of the InputTS (Board, Port and Ref).*
- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_t::ActiveInRef](#)



*The location of the ActiveInputTS (Board, Port and Ref).*

- IPS\_UDP\_Socket\_t [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_t::Socket](#)

*Unique IP-Address and UDP port combination.*

- eIPS\_StreamingState [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_t::State](#)
- unsigned long [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_t::TS\\_OutProperty](#)

*Read only Bitmap used by GUI to display specific icons. < Bit 3: TRUE if RTP is streamed < Bit 4: TRUE if VLAN is enabled < Bit 9: TRUE if FEC column stream is enabled < Bit 10: TRUE if FEC row stream is enabled.*

- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_V2\\_t::OutRef](#)

*The location of the OutputTS (Board, Port and Ref).*

- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_V2\\_t::InRef](#)

*The location of the InputTS (Board, Port and Ref).*

- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_V2\\_t::ActiveInRef](#)

*The location of the ActiveInputTS (Board, Port and Ref).*

- IPS\_UDP\_Socket\_t [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_V2\\_t::Socket](#)

*Unique IP-Address and UDP port combination.*

- enStreamingSetting\_t [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_V2\\_t::Setting](#)

*Streaming setting of the outgoing TS.*

- eIPS\_StreamingState [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_V2\\_t::State](#)
- unsigned long [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_V2\\_t::TS\\_OutProperty](#)

*Read only state.*

- IPS\_Ref\_t [DCM::DeviceControl::PortTsSvcProps\\_t::RefPhys](#)
- unsigned long [DCM::DeviceControl::PortTsSvcProps\\_t::TsProps](#)

*Bit map of aggregated TS Properties on a port.*

- unsigned long [DCM::DeviceControl::PortTsSvcProps\\_t::SvcProps](#)
- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_Service\\_t::Ref](#)

*Identifies the unique location (Board, Port, TS).*

- ServiceId\_t [DCM::DeviceControl::IPS\\_Service\\_t::SID](#)

*SID range: 0..65535.*

- IPS\_RefTS\_t [DCM::DeviceControl::IPS\\_Service\\_In\\_t::RefIn](#)
- ServiceId\_t [DCM::DeviceControl::IPS\\_Service\\_In\\_t::InputSID](#)
- unsigned long [DCM::DeviceControl::IPS\\_Service\\_In\\_t::ServiceInProperty](#)

*Read only Bitmap used by GUI to display specific icons (.*

- DvbString\_t [DCM::DeviceControl::IPS\\_Service\\_In\\_t::SystemName](#)

*Maximum string length 255 characters.*

- DvbString\_t [DCM::DeviceControl::IPS\\_Service\\_In\\_t::UserName](#)

*Maximum string length 255 characters.*

- eEsTypeStandard [DCM::DeviceControl::IPS\\_Service\\_In\\_t::m\\_EsTypeStandard](#)

*The standard of the input TS.*

- boolean [DCM::DeviceControl::IPS\\_SDT\\_Data\\_t::InputSDTPresent](#)

*RO flag.*

- boolean [DCM::DeviceControl::IPS\\_SDT\\_Data\\_t::OutputSDTPresent](#)

*RW flag. false = Follow Input; true = Override.*

- boolean [DCM::DeviceControl::IPS\\_SDT\\_Data\\_t::EITscheduleIn](#)

*RO provides EIT\_schedule\_flag of input (Present = 1)*

- eEitSchedule [DCM::DeviceControl::IPS\\_SDT\\_Data\\_t::EITschOut](#)

*RW (Transparent, Schedule Present, Schedule Not Present)*

- boolean `DCM::DeviceControl::IPS_SDT_Data_t::EITpresFollowIn`  
*RO provides EIT\_present\_following flag of input (Present = 1)*
- eEitPresentFollow `DCM::DeviceControl::IPS_SDT_Data_t::EITpfOut`  
*RW (Transparent, Sch. PF Present, Sch. PF Not Present)*
- boolean `DCM::DeviceControl::IPS_SDT_Data_t::FreeCAmode`  
*RO provides free\_CA\_mode of input (Scrambled = 1)*
- eCaMode `DCM::DeviceControl::IPS_SDT_Data_t::CAmodeOut`  
*RW (Transparent, Not Scrambled, CA Present)*
- eRunningStatus `DCM::DeviceControl::IPS_SDT_Data_t::RunStatusIn`  
*RO provides running status of input.*
- eRunningStatus `DCM::DeviceControl::IPS_SDT_Data_t::RunStatusOut`  
*RW (Transparent or configurable status)*
- eServiceType `DCM::DeviceControl::IPS_SDT_Data_t::ServiceTypeIn`  
*RO provides service type of input.*
- eServiceType `DCM::DeviceControl::IPS_SDT_Data_t::ServiceTypeOut`  
*RW (Transparent or configurable)*
- boolean `DCM::DeviceControl::IPS_SDT_Data_t::UseOutputUserName`  
*User forced change of output service name.*
- DvbString\_t `DCM::DeviceControl::IPS_SDT_Data_t::OutputUserName`  
*Maximum string length 255 characters.*
- boolean `DCM::DeviceControl::IPS_SDT_Data_t::UseOutputServiceProviderName`  
*User forced change of output service provider name.*
- DvbString\_t `DCM::DeviceControl::IPS_SDT_Data_t::ServiceProviderNameIn`
- DvbString\_t `DCM::DeviceControl::IPS_SDT_Data_t::ServiceProviderNameOut`
- IPS\_RefTS\_t `DCM::DeviceControl::IPS_ServiceData_Out_t::RefOut`
- ServiceId\_t `DCM::DeviceControl::IPS_ServiceData_Out_t::OutputSID`  
*ID of an outgoing service.*
- unsigned long `DCM::DeviceControl::IPS_ServiceData_Out_t::ServiceOutProperty`  
*Read only Bitmap used by GUI to display specific icons (.).*
- boolean `DCM::DeviceControl::IPS_ServiceData_Out_t::FixedRemap`  
*User forced change of output service ID.*
- boolean `DCM::DeviceControl::IPS_ServiceData_Out_t::HDSERVICE`  
*Read/Write: Holds true if service is High definition service false for Standard definition service.*
- boolean `DCM::DeviceControl::IPS_ServiceData_Out_t::DVB_ScramblingLicense`  
*Read/Write: Holds true if service wants/has DVB\_SCRAMBLING license false if no license.*
- IPS\_SDT\_Data\_t `DCM::DeviceControl::IPS_ServiceData_Out_t::SDTData`
- IPS\_Service\_In\_t `DCM::DeviceControl::IPS_ServiceData_Out_t::Service`  
*Reference to the incoming service.*
- IPS\_RefTS\_t `DCM::DeviceControl::IPS_RefSvc_t::RefOut`  
*RefTS of the service TS, not necessarily an output TS as the name wrongly suggests.*
- unsigned long `DCM::DeviceControl::IPS_RefSvc_t::SvcIdent`  
*For the moment this value equals the service ID.*
- IPS\_Service\_t `DCM::DeviceControl::IPS_Service_In_V2_t::Service`
- DvbString\_t `DCM::DeviceControl::IPS_Service_In_V2_t::Name`  
*Read only: The name of the service.*
- IPS\_RefSvc\_t `DCM::DeviceControl::IPS_ServiceData_Out_V2_t::ServiceOut`  
*Identifies the output service.*

- ServiceId\_t [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V2\\_t::NewOutputSID](#)  
*Requested Service ID for an outgoing service.*
- unsigned long [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V2\\_t::ServiceOutProperty](#)  
*Read only Bitmap used by GUI to display specific icons < Bit 0: Service present at input (true) or not (false). < Bit 1: Service scrambled by DCM (true means scrambled) < Bit 2: Service Active (Session Based) < Bit 3: Service is merged < Bit 4: at least one of the source input PIDs of this service is scrambled < Bit 5: True if output service is in backup < Bit 6: True if output service loss is active < Bit 7: True if output service is streaming < Bit 8: True if Service Redundancy Alarm is active < Other bits for future use.*
- boolean [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V2\\_t::FixedRemap](#)  
*User forced change of output service ID.*
- boolean [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V2\\_t::HDSERVICE](#)  
*Read/Write: Holds true if service is High definition service false for Standard definition service.*
- boolean [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V2\\_t::DVB\\_ScramblingLicense](#)  
*Read/Write: Holds true if service wants/has DVB\_SCRAMBLING license; false if no license.*
- IPS\_SDT\_Data\_t [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V2\\_t::SDTData](#)
- IPS\_Service\_In\_V2\_t [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V2\\_t::MainInputService](#)  
*Read only : Reference to the main input service that was used to create the output service.*
- IPS\_Service\_In\_V2\_t [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V2\\_t::ActiveInputService](#)  
*Read only : can be different from main input service e.g. when service is in backup, ...*
- IPS\_RefSvc\_t [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V3\\_t::ServiceOut](#)  
*Identifies the output service.*
- ServiceId\_t [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V3\\_t::NewOutputSID](#)  
*Requested Service ID for an outgoing service.*
- unsigned long [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V3\\_t::ServiceOutProperty](#)  
*Read only Bitmap used by GUI to display specific icons < Bit 0: Service present at input (true) or not (false). < Bit 1: Service scrambled by DCM (true means scrambled) < Bit 2: Service Active (Session Based) < Bit 3: Service is merged < Bit 4: at least one of the source input PIDs of this service is scrambled < Bit 5: True if output service is in backup < Bit 6: True if output service loss is active < Bit 7: True if output service is streaming < Bit 8: True if Service Redundancy Alarm is active < Other bits for future use.*
- boolean [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V3\\_t::FixedRemap](#)  
*User forced change of output service ID.*
- boolean [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V3\\_t::HDSERVICE](#)  
*Read/Write: Holds true if service is High definition service false for Standard definition service.*
- boolean [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V3\\_t::DVB\\_ScramblingLicense](#)  
*Read/Write: Holds true if service wants/has DVB\_SCRAMBLING license; false if no license.*
- IPS\_SDT\_Data\_t [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V3\\_t::SDTData](#)
- IPS\_Service\_In\_V2\_t [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V3\\_t::MainInputService](#)  
*Read only : Reference to the main input service that was used to create the output service.*
- IPS\_Service\_In\_V2\_t [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V3\\_t::ActiveInputService](#)  
*Read only : can be different from main input service e.g. when service is in backup, ...*
- AlternateSrcId\_t [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V3\\_t::ActiveSourceId](#)  
*Read only: the source ID of the currently active alternate source.*
- IPS\_Service\_t [DCM::DeviceControl::ServiceBlockCAInfo\\_t::RefServ](#)
- boolean [DCM::DeviceControl::ServiceBlockCAInfo\\_t::blockCAInfo](#)  
*Indicates if the CA info needs to be blocked for the service If true, the EIT, SDT and PMT table is updates and ECM components are blocked.*
- IPS\_RefSvc\_t [DCM::DeviceControl::TC\\_ServiceData\\_t::RefSvc](#)  
*Read only : The RefSvc of this service, either main or PIP (PIP not supported in Version 7.01)*
- IPS\_RefSvc\_t [DCM::DeviceControl::TC\\_ServiceData\\_t::ParentRefSvc](#)

*Read only : The RefSvc of the main service. If RefSvc == ParentRefSvc, this is a main service. For PIP RefSvc <> ParentRefSvc.*

- ServiceId\_t [DCM::DeviceControl::TC\\_ServiceData\\_t::SID](#)

*Read only : The SID of the service.*

- unsigned long [DCM::DeviceControl::TC\\_ServiceData\\_t::TC\\_Property](#)

*Read only Bitmap used by GUI to display < Bit 0: Service present at input (true) or not (false). < Bit 4: at least one of the source input PIDs of this service is scrambled < Bit 5: TRUE if service is in backup < Bit 6: TRUE if Service Loss Alarm is active. < Bit 29: TRUE if service can't be deleted (e.g. because it's passed to an output) < Bit 30: TRUE if transcoding is enabled on one of the components of the Service < TRUE if service on a MFP board is processing (transrating/transcoding) audio or video < Bit 31: TRUE if Service contains VBI (future) (same bit as in IPS\_Service\_In\_t)*

- IPS\_Service\_In\_V2\_t [DCM::DeviceControl::TC\\_ServiceData\\_t::MainInputService](#)

*Read only : Reference to the main input service that was used to create the service.*

- IPS\_Service\_In\_V2\_t [DCM::DeviceControl::TC\\_ServiceData\\_t::ActiveInputService](#)

*Read only : can be different from main input service e.g. when service is in backup, ...*

- DvbString\_t [DCM::DeviceControl::TC\\_ServiceData\\_t::UserTag](#)

*Maximum string length 255 characters.*

- enumTrackTypeV2 [DCM::DeviceControl::TrackingCriterium\\_t::enTrackType](#)

- octet [DCM::DeviceControl::TrackingCriterium\\_t::oComponentTag](#)

- octet [DCM::DeviceControl::TrackingCriterium\\_t::oStreamType](#)

- string [DCM::DeviceControl::TrackingCriterium\\_t::strLanguage](#)

- unsigned long [DCM::DeviceControl::TrackingCriterium\\_t::ulDescriptorTag](#)

- unsigned short [DCM::DeviceControl::TrackingCriterium\\_t::usInputPid](#)

- unsigned short [DCM::DeviceControl::TrackingCriterium\\_t::usParentEsOutputPid](#)

- unsigned short [DCM::DeviceControl::TrackingCriterium\\_t::usCasId](#)

- TrackingCriterium\_t [DCM::DeviceControl::MergeCriterium\\_t::TrackingCriterium](#)

- IPS\_RefPidList\_t [DCM::DeviceControl::MergeCriterium\\_t::MergedComponents](#)

*a list of IPS\_RefPid\_t's of components merged in by this TrackingCriterium*

- AlternateSrcId\_t [DCM::DeviceControl::ComponentMergeCriterium\\_t::AlternateSrcId](#)

- IPS\_RefSvc\_t [DCM::DeviceControl::ComponentMergeCriterium\\_t::ServiceIn](#)

- MergeCriteriumList\_t [DCM::DeviceControl::ComponentMergeCriterium\\_t::MergeCriteriumList](#)

*For the set call this is the new complete list of merge criteria for an input service.*

- IPS\_Service\_t [DCM::DeviceControl::IPS\\_MergedInService\\_t::Service](#)

- unsigned long [DCM::DeviceControl::IPS\\_MergedInService\\_t::ServiceProperty](#)

- AlternateSrcId\_t [DCM::DeviceControl::AltSrcMergedSetting\\_t::AlternateSrcId](#)

- IPS\_MergedInServiceList\_t [DCM::DeviceControl::AltSrcMergedSetting\\_t::MergedInServiceList](#)

- IPS\_Service\_t [DCM::DeviceControl::IPS\\_Serv\\_Dest\\_t::OutputService](#)

- IPS\_Serv\_Source\_List\_t [DCM::DeviceControl::IPS\\_Serv\\_Dest\\_t::SourceList](#)

- IPS\_RefSvc\_t [DCM::DeviceControl::TC\\_ServiceDataV2\\_t::RefSvc](#)

*Read only : The RefSvc of this service, either main or PIP (PIP not supported in Version 7.01)*

- IPS\_RefSvc\_t [DCM::DeviceControl::TC\\_ServiceDataV2\\_t::ParentRefSvc](#)

*Read only : The RefSvc of the main service. If RefSvc == ParentRefSvc, this is a main service. For PIP RefSvc <> ParentRefSvc.*

- ServiceId\_t [DCM::DeviceControl::TC\\_ServiceDataV2\\_t::SID](#)

*Read only : The SID of the service.*

- unsigned long [DCM::DeviceControl::TC\\_ServiceDataV2\\_t::TC\\_Property](#)

*Read only Bitmap used by GUI to display < Bit 0: Service present at input (true) or not (false). < Bit 4: at least one of the source input PIDs of this service is scrambled < Bit 5: TRUE if service is in backup < Bit 6: TRUE if Service Loss Alarm is active. < Bit 29: TRUE if service can't be deleted (e.g. because it's passed to an output) < Bit 30: TRUE if transcoding is enabled on one of the components of the Service < TRUE if service on a MFP board is processing (transrating/transcoding) audio or video < Bit 31: TRUE if Service contains VBI (future) (same bit as in IPS\_Service\_In\_t)*

- IPS\_Service\_In\_V2\_t [DCM::DeviceControl::TC\\_ServiceDataV2\\_t::MainInputService](#)

*Read only : Reference to the main input service that was used to create the service.*

- IPS\_Service\_In\_V2\_t [DCM::DeviceControl::TC\\_ServiceDataV2\\_t::ActiveInputService](#)

*Read only : can be different from main input service e.g. when service is in backup, ...*

- DvbString\_t [DCM::DeviceControl::TC\\_ServiceDataV2\\_t::UserTag](#)

*Maximum string length 255 characters < For multires services this tag can be overwritten if settings change.*

- boolean [DCM::DeviceControl::TC\\_ServiceDataV2\\_t::bUseTagAsSvcName](#)

*True (default) use usertag as service name (will be inserted in the SDT). TODO exact behaviour < Default false for main/pip services, default true for multires services.*

- IPS\_RefTS\_t [DCM::DeviceControl::InPID\\_Data\\_t::m\\_RefTS](#)

*The Slot, Port and Index of the input TS.*

- unsigned short [DCM::DeviceControl::InPID\\_Data\\_t::m\\_usPID](#)

*The reference to the input pid to be blocked Is a service ES pid or EMM pid at TS level when m\_ulOutputSID is INVALID\_SID\_VALUE.*

- unsigned short [DCM::DeviceControl::InPID\\_Data\\_t::m\\_usECM\\_PID](#)

*Value of the ES ECMPID at the input TS when PID is valid or the ECM pid at service level.*

- ePIDPassingStatus [DCM::DeviceControl::ServicePIDStatus\\_t::m\\_ePID\\_Status](#)

*The new passing status.*

- unsigned long [DCM::DeviceControl::ServicePIDStatus\\_t::m\\_ulOutputSID](#)

*Output service ID value.*

- unsigned long [DCM::DeviceControl::ServicePIDStatus\\_t::m\\_ulPCR](#)

*1 means (un)block the PCR PID in this service (other information will be ignored).*

- InPID\_Data\_t [DCM::DeviceControl::ServicePIDStatus\\_t::m\\_PidRef](#)

*Reference to the input pid to be blocked.*

- unsigned long [DCM::DeviceControl::ServiceCompSettings\\_t::m\\_ulOutputSID](#)

*Output service ID value. Will be ignored if INVALID\_SID\_VALUE.*

- unsigned long [DCM::DeviceControl::ServiceCompSettings\\_t::m\\_ulPCR](#)

*1 means (un)block the PCR PID in this service (other information will be ignored).*

- InPID\_Data\_t [DCM::DeviceControl::ServiceCompSettings\\_t::m\\_PidRef](#)

*Reference to the input pid to be blocked.*

- ePIDPassingStatus [DCM::DeviceControl::ServiceCompSettings\\_t::m\\_ePID\\_Status](#)

*The new passing status.*

- unsigned short [DCM::DeviceControl::ServiceCompSettings\\_t::m\\_usOutputPid](#)

- boolean [DCM::DeviceControl::ServiceCompSettings\\_t::m\\_bForced](#)

- boolean [DCM::DeviceControl::ServiceCompSettings\\_t::m\\_bTracked](#)

- unsigned long [DCM::DeviceControl::ServiceCompSettings\\_t::m\\_ulTrackRuleID](#)

- IPS\_RefTS\_t [DCM::DeviceControl::ComponentTag\\_t::m\\_RefTsOut](#)

*The Slot, Port and Index.*

- unsigned long [DCM::DeviceControl::ComponentTag\\_t::m\\_ulOutputSid](#)

- unsigned short [DCM::DeviceControl::ComponentTag\\_t::m\\_usOutputPid](#)

- octet [DCM::DeviceControl::ComponentTag\\_t::m\\_ocComponentTag](#)

- unsigned long [DCM::DeviceControl::ComponentTrackRule\\_t::m\\_ulID](#)

- IPS\_Service\_t [DCM::DeviceControl::ComponentTrackRule\\_t::m\\_Service](#)

- Sid can be INVALID\_SID\_VALUE in case of a TS PID.*
- enumTrackType `DCM::DeviceControl::ComponentTrackRule_t::m_eTrackType`
- octet `DCM::DeviceControl::ComponentTrackRule_t::m_ocComponentTag`  
*valid if component tag tracking*
- octet `DCM::DeviceControl::ComponentTrackRule_t::m_ocStreamType`  
*valid if stream type tracking*
- string `DCM::DeviceControl::ComponentTrackRule_t::m_strLanguage`  
*valid if stream type tracking and audio streamtype*
- unsigned long `DCM::DeviceControl::ComponentTrackRule_t::m_ulDescriptorTag`  
*0x56 for teletext descriptor*
- unsigned short `DCM::DeviceControl::ComponentTrackRule_t::m_usInputPid`  
*valid is pid tracking (ES, ECM and ES-ECM: always THE input pid)*
- unsigned short `DCM::DeviceControl::ComponentTrackRule_t::m_usEsPreferredOutputPid`  
*valid if pid tracking for ECM pid: parent must exist.*
- unsigned short `DCM::DeviceControl::ComponentTrackRule_t::m_usPreferredOutputPid`
- enumRuleSetting `DCM::DeviceControl::ComponentTrackRule_t::m_eRuleSetting`
- unsigned long `DCM::DeviceControl::ComponentTrackRule_V2_t::m_ulID`
- IPS\_Service\_t `DCM::DeviceControl::ComponentTrackRule_V2_t::m_Service`  
*Sid can be INVALID\_SID\_VALUE in case of a TS PID.*
- TrackingCriterium\_t `DCM::DeviceControl::ComponentTrackRule_V2_t::m_TrackCriterium`
- unsigned short `DCM::DeviceControl::ComponentTrackRule_V2_t::m_usPreferredOutputPid`
- enumRuleSetting `DCM::DeviceControl::ComponentTrackRule_V2_t::m_eRuleSetting`
- unsigned long `DCM::DeviceControl::DefaultTrackRule_t::m_ulID`
- enumTrackType `DCM::DeviceControl::DefaultTrackRule_t::m_eTrackType`
- octet `DCM::DeviceControl::DefaultTrackRule_t::m_ocComponentTag`  
*valid if component tag tracking*
- octet `DCM::DeviceControl::DefaultTrackRule_t::m_ocStreamType`  
*valid if stream type tracking*
- string `DCM::DeviceControl::DefaultTrackRule_t::m_strLanguage`  
*valid if stream type tracking and audio streamtype*
- unsigned long `DCM::DeviceControl::DefaultTrackRule_t::m_ulDescriptorTag`  
*0x56 for teletext descriptor*
- unsigned short `DCM::DeviceControl::DefaultTrackRule_t::m_usInputPid`  
*valid is pid tracking (ES, ECM and ES-ECM: always THE input pid)*
- unsigned short `DCM::DeviceControl::DefaultTrackRule_t::m_usEsPreferredOutputPid`  
*valid if pid tracking for ECM pid: parent must exist.*
- unsigned short `DCM::DeviceControl::DefaultTrackRule_t::m_usPreferredOutputPid`
- enumDefaultRuleSetting `DCM::DeviceControl::DefaultTrackRule_t::m_eRuleSetting`
- unsigned short `DCM::DeviceControl::ES_TypeSetting_t::OutputPid`
- octet `DCM::DeviceControl::ES_TypeSetting_t::ES_Type`
- IPS\_Service\_t `DCM::DeviceControl::SvcOutES_TypeSetting_t::RefServ`
- ES\_TypeSettingList\_t `DCM::DeviceControl::SvcOutES_TypeSetting_t::ES_TypeSettingList`
- unsigned long `DCM::DeviceControl::ServiceES_t::OutputSID`
- IPS\_RefTS\_t `DCM::DeviceControl::ServiceES_t::RefTSIn`
- unsigned long `DCM::DeviceControl::ServiceES_t::InputSID`
- long `DCM::DeviceControl::ServiceES_t::OldPID`
- string `DCM::DeviceControl::IPS_LanguageSettings_t::LanguageCode`  
*ISO\_639\_language\_code.*



- octet `DCM::DeviceControl::IPS_LanguageSettings_t::AudioType`
- `IPS_RefTS_t` `DCM::DeviceControl::IPS_Out_PIDSettings_t::RefIn`  
*The location (slot, port) and stream.*
- unsigned long `DCM::DeviceControl::IPS_Out_PIDSettings_t::InputSID`  
*Input Service ID. (Not used : always 0 now)*
- unsigned short `DCM::DeviceControl::IPS_Out_PIDSettings_t::OldPID`  
*Value of the PID at the input TS.*
- unsigned short `DCM::DeviceControl::IPS_Out_PIDSettings_t::NewPID`  
*New output PID value: 0xFFFF means unassigned.*
- boolean `DCM::DeviceControl::IPS_Out_PIDSettings_t::FixedPIDRemap`  
*If Output PID is fixed, this variable is true.*
- `ePIDPassingStatus` `DCM::DeviceControl::IPS_Out_PIDSettings_t::PIDStatus`  
*Measurement, can be different from setting.*
- `ePIDPassingStatus` `DCM::DeviceControl::IPS_Out_PIDSettings_t::PIDSetting`  
*Set by user, can only be `ePID_StatusBlockedByUser` or `ePID_StatusPassed`.*
- unsigned long `DCM::DeviceControl::IPS_Out_PIDSettings_t::PID_Property`  
*Read only Bitmap used by GUI to display specific icons < Bit 0: PID present in input TS or not < TRUE means present < FALSE: PID not present < Remark: present or not present is based on SI < Bit 1: Service scrambled by DCM < TRUE means scrambled by DCM < FALSE means not scrambled by DCM < Bit 2: PID descrambled by DCM (TRUE = descrambled) < Bit 3: PID is not correctly descrambled (when descrambled by `DCM`) < TRUE means that not descrambled alarm is active < Bit 4: PID is scrambled at input < TRUE means scrambled at input.*
- long `DCM::DeviceControl::IPS_Out_ECMSettings_t::CASystemID`  
*To which CA system does the ECM belong.*
- string `DCM::DeviceControl::IPS_Out_ECMSettings_t::ECM_Info`  
*Additional info for ECM (AC, ...)*
- `IPS_Out_PIDSettings_t` `DCM::DeviceControl::IPS_Out_ECMSettings_t::ECM_PID`  
*Setting of an individual ECM PID.*
- `IPS_Out_PIDSettings_t` `DCM::DeviceControl::IPS_Out_ESSettings_t::ES_PID`
- octet `DCM::DeviceControl::IPS_Out_ESSettings_t::ES_Type`  
*dvb streamtype.*
- string `DCM::DeviceControl::IPS_Out_ESSettings_t::strEsType`  
*Interpretation of `Es_Type` in regard to `m_EsTypeStandard` of the output TS. Read only.*
- `IPS_Out_ECMSettingsTree_t` `DCM::DeviceControl::IPS_Out_ESSettings_t::ES_ECMSettings`  
*Settings for each ES ECM PID.*
- `LanguageList_t` `DCM::DeviceControl::IPS_Out_ESSettings_t::ES_Languages`  
*Language descriptors: will be 0 in first version.*
- `IPS_RefTS_t` `DCM::DeviceControl::IPS_Out_ServiceComponents_t::Ref_Out`
- unsigned long `DCM::DeviceControl::IPS_Out_ServiceComponents_t::OutputSID`
- `IPS_Out_PIDSettings_t` `DCM::DeviceControl::IPS_Out_ServiceComponents_t::PMT_PID`
- `IPS_Out_PIDSettings_t` `DCM::DeviceControl::IPS_Out_ServiceComponents_t::PCR_PID`
- `IPS_Out_ECMSettingsTree_t` `DCM::DeviceControl::IPS_Out_ServiceComponents_t::ECM_Info`
- `IPS_Out_ESSettingsTree_t` `DCM::DeviceControl::IPS_Out_ServiceComponents_t::ES_Info`  
*Contains a list of `ECM_Info`.*
- `IPS_Out_PIDSettings_t` `DCM::DeviceControl::IPS_Out_ESSettings_V2_t::ES_PID`
- octet `DCM::DeviceControl::IPS_Out_ESSettings_V2_t::SrcES_Type`  
*dvb streamtype of the source of the output TS.*
- string `DCM::DeviceControl::IPS_Out_ESSettings_V2_t::strSrcES_Type`

*Interpretation of Es\_Type in regard to m\_EsTypeStandard of the source of the output TS. Read only.*

- octet [DCM::DeviceControl::IPS\\_Out\\_ESSettings\\_V2\\_t::OutES\\_Type](#)  
*dvb streamtype of the output TS.*
- string [DCM::DeviceControl::IPS\\_Out\\_ESSettings\\_V2\\_t::strOutES\\_Type](#)  
*Interpretation of Es\_Type in regard to m\_EsTypeStandard of the output TS. Read only.*
- [IPS\\_Out\\_ECMSettingsTree\\_t](#) [DCM::DeviceControl::IPS\\_Out\\_ESSettings\\_V2\\_t::ES\\_ECMSettings](#)

*Settings for each ES ECM PID.*

- [LanguageList\\_t](#) [DCM::DeviceControl::IPS\\_Out\\_ESSettings\\_V2\\_t::ES\\_Languages](#)
- [IPS\\_RefTS\\_t](#) [DCM::DeviceControl::IPS\\_Out\\_ServiceComponents\\_V2\\_t::Ref\\_Out](#)
- unsigned long [DCM::DeviceControl::IPS\\_Out\\_ServiceComponents\\_V2\\_t::OutputSID](#)
- [IPS\\_Out\\_PIDSettings\\_t](#) [DCM::DeviceControl::IPS\\_Out\\_ServiceComponents\\_V2\\_t::PMT\\_PID](#)
- [IPS\\_Out\\_PIDSettings\\_t](#) [DCM::DeviceControl::IPS\\_Out\\_ServiceComponents\\_V2\\_t::PCR\\_PID](#)
- [IPS\\_Out\\_ECMSettingsTree\\_t](#) [DCM::DeviceControl::IPS\\_Out\\_ServiceComponents\\_V2\\_t::ECM\\_Info](#)
- [IPS\\_Out\\_ESSettingsTree\\_V2\\_t](#) [DCM::DeviceControl::IPS\\_Out\\_ServiceComponents\\_V2\\_t::ES\\_Info](#)

*Contains a list of ECM\_Info.*

- [AlternateSrcId\\_t](#) [DCM::DeviceControl::PcrSetting\\_t::AlternateSrcId](#)  
*Identifies the alternate service for a specific output service.*
- [IPS\\_RefPid\\_t](#) [DCM::DeviceControl::PcrSetting\\_t::InputPidRef](#)  
*If Board, Port and TS Reference are invalid (0xFFFFFFFF), < this meanse it's a "dummy" PCR. Input PID value is used as < preferred output PID value. When set to INVALID\_PID\_VALUE < this means that the PCR will be removed.*
- long [DCM::DeviceControl::IPS\\_In\\_ECMSettings\\_t::CASystemID](#)  
*To which CA system does the ECM belong.*
- unsigned short [DCM::DeviceControl::IPS\\_In\\_ECMSettings\\_t::ECM\\_PID](#)  
*Setting of an individual ECM PID.*
- unsigned short [DCM::DeviceControl::IPS\\_In\\_ESSettings\\_t::ES\\_PID](#)
- octet [DCM::DeviceControl::IPS\\_In\\_ESSettings\\_t::ESType](#)  
*Dvb stream type.*
- string [DCM::DeviceControl::IPS\\_In\\_ESSettings\\_t::strEsType](#)  
*Interpretation of EsType in regard to m\_EsTypeStandard of the input TS. Read only.*
- [IPS\\_In\\_ECMSettingsTree\\_t](#) [DCM::DeviceControl::IPS\\_In\\_ESSettings\\_t::ES\\_ECMSettings](#)  
*Settings for each ES ECM PID.*
- [LanguageList\\_t](#) [DCM::DeviceControl::IPS\\_In\\_ESSettings\\_t::ES\\_Languages](#)  
*Language descriptors: will be zero in first version.*
- unsigned long [DCM::DeviceControl::IPS\\_In\\_ESSettings\\_t::PID\\_Property](#)  
*Read only Bitmap used by GUI to display specific icons < Bit 0: PID present in input TS or not < TRUE means present < FALSE: PID not present < Remark: present or not present is based on SI < Bit 4: PID scrambled at input <.*
- [IPS\\_RefTS\\_t](#) [DCM::DeviceControl::IPS\\_In\\_ServiceComponents\\_t::Ref\\_In](#)
- unsigned long [DCM::DeviceControl::IPS\\_In\\_ServiceComponents\\_t::InputSID](#)
- unsigned short [DCM::DeviceControl::IPS\\_In\\_ServiceComponents\\_t::PMT\\_PID](#)
- unsigned short [DCM::DeviceControl::IPS\\_In\\_ServiceComponents\\_t::PCR\\_PID](#)
- [IPS\\_In\\_ECMSettingsTree\\_t](#) [DCM::DeviceControl::IPS\\_In\\_ServiceComponents\\_t::ECM\\_Info](#)
- [IPS\\_In\\_ESSettingsTree\\_t](#) [DCM::DeviceControl::IPS\\_In\\_ServiceComponents\\_t::ES\\_Info](#)  
*Contains a list of ECM\_Info.*
- [TableKeys\\_t](#) [DCM::DeviceControl::TableGenerationData\\_t::OutKeys](#)



- Keys to locate the output table.*

  - unsigned short `DCM::DeviceControl::TableGenerationData_t::OutPid`  
*Pid on which the output table should be played out PMT Pid range: 0x0020 .*
  - boolean `DCM::DeviceControl::TableGenerationData_t::ForcedOutputPid`  
*Indicates if the output pid should be forced or not (=0)*
  - ePIDPassingStatus `DCM::DeviceControl::TableGenerationData_t::GenerationMode`  
*Specifies what should happen wiht the output table.*
  - IPS\_RefTS\_t `DCM::DeviceControl::TableGenerationData_t::InRefTs`  
*Slot, port and index of the input TS where the table to be be used can be found.*
  - TableKeys\_t `DCM::DeviceControl::TableGenerationData_t::InKeys`  
*Keys to locate the desired input table.*
  - unsigned short `DCM::DeviceControl::TableGenerationData_t::InPid`  
*Pid on which the specified input table should be found.*
  - TableKeys\_t `DCM::DeviceControl::TableGenerationData_V2_t::OutKeys`  
*Keys to locate the output table.*
  - unsigned short `DCM::DeviceControl::TableGenerationData_V2_t::OutPid`  
*Pid on which the output table should be played out PMT Pid range: 0x0020 .*
  - boolean `DCM::DeviceControl::TableGenerationData_V2_t::ForcedOutputPid`  
*Indicates if the output pid should be forced or not (=0)*
  - ePIDPassingStatus\_V2 `DCM::DeviceControl::TableGenerationData_V2_t::GenerationMode`  
*Specifies what should happen wiht the output table.*
  - IPS\_RefTS\_t `DCM::DeviceControl::TableGenerationData_V2_t::InRefTs`  
*Slot, port and index of the input TS where the table to be be used can be found.*
  - TableKeys\_t `DCM::DeviceControl::TableGenerationData_V2_t::InKeys`  
*Keys to locate the desired input table.*
  - unsigned short `DCM::DeviceControl::TableGenerationData_V2_t::InPid`  
*Pid on which the specified input table should be found.*
  - IPS\_Service\_t `DCM::DeviceControl::SvcOutStreamingSetting_t::RefServ`
  - boolean `DCM::DeviceControl::SvcOutStreamingSetting_t::StreamingState`
  - IPS\_Ref\_t `DCM::DeviceControl::AsiFormatData_t::Location`
  - eAsiPacketFormat `DCM::DeviceControl::AsiFormatData_t::PacketFormat`
  - eAsiOutputMode `DCM::DeviceControl::AsiFormatData_t::OutputMode`
  - unsigned short `DCM::DeviceControl::ASI_MirrorCfg_t::MirrorPortNr`  
*Output port to where the data is mirrored.*
  - unsigned short `DCM::DeviceControl::ASI_MirrorCfg_t::MainPortNr`  
*Mirror source port from where content is routed.*
  - string `DCM::DeviceControl::IpCfg_t::IpAddress`
  - string `DCM::DeviceControl::IpCfg_t::SubnetMask`
  - IPS\_Ref\_t `DCM::DeviceControl::VlanPortSet_t::RefPhysPortSet`  
*Underlying Physical (GbE) Port Set.*
  - IPS\_Ref\_t `DCM::DeviceControl::VlanPortSet_t::RefVlanPortSet`  
*Handle to identify a VlanPortSet.*
  - unsigned short `DCM::DeviceControl::VlanPortSet_t::VLANID`  
*valid range: 1-4094*
  - IpCfgList\_t `DCM::DeviceControl::VlanPortSet_t::ItfAddresses`  
*Configured addresses of the vlan interfaces.*
  - boolean `DCM::DeviceControl::VlanPortSet_t::bCanBeDeleted`

- true if the configured VLAN can be deleted.*
- IPS\_Ref\_t [DCM::DeviceControl::ASI\\_BW\\_LimitData\\_t::Location](#)
- boolean [DCM::DeviceControl::ASI\\_BW\\_LimitData\\_t::Enabled](#)
- unsigned long [DCM::DeviceControl::ASI\\_BW\\_LimitData\\_t::Bitrate](#)
- IPS\_Ref\_t [DCM::DeviceControl::InPort\\_8VSB\\_TuningParams\\_t::InputPortRef](#)  
*Reference of the input port.*
- short [DCM::DeviceControl::InPort\\_8VSB\\_TuningParams\\_t::ChannelNbr](#)  
*A value from 1 to 82. Negative if frequency is used.*
- unsigned long [DCM::DeviceControl::InPort\\_8VSB\\_TuningParams\\_t::Frequency](#)  
*In KHz. Valid range is 47000 to 885000, multiples of 125.*
- boolean [DCM::DeviceControl::InPort\\_8VSB\\_TuningParams\\_t::IsLocked](#)  
*Output parameter indicating whether tuner is locked to channel.*
- long [DCM::DeviceControl::InPort\\_8VSB\\_TuningParams\\_t::InputLevel](#)  
*Output parameter indicating signal level in dBm. If the input level is out of range the InputLevel is set to the minimum or maximum long value, e.g. 2147483647 in case of above measurement range or -2147483648 in case of below measurement range.*
- IPS\_Ref\_t [DCM::DeviceControl::InPort\\_8VSB\\_Config\\_t::InputPortRef](#)  
*Reference of the 8VSB input port.*
- long [DCM::DeviceControl::InPort\\_8VSB\\_Config\\_t::SignalLowThreshold](#)  
*In dBm. Valid range is -80 to -20.*
- long [DCM::DeviceControl::InPort\\_8VSB\\_Config\\_t::SignalHighThreshold](#)  
*In dBm. Valid range is -80 to -20.*
- unsigned long [DCM::DeviceControl::InPort\\_8VSB\\_Config\\_t::MER\\_Threshold](#)  
*in dB. Valid range is 15 to 35.*
- IPS\_Ref\_t [DCM::DeviceControl::InPort\\_8VSB\\_Statistics\\_t::InputPortRef](#)  
*Reference of the 8VSB input port.*
- long [DCM::DeviceControl::InPort\\_8VSB\\_Statistics\\_t::InputLevel](#)  
*Signal level in dBm. If the input level is out of range the InputLevel is set to the minimum or maximum long value, e.g. 2147483647 in case of above measurement range or -2147483648 in case of below measurement range.*
- unsigned long [DCM::DeviceControl::InPort\\_8VSB\\_Statistics\\_t::MER](#)  
*Modulation Error Ratio in dB.*
- long [DCM::DeviceControl::InPort\\_8VSB\\_Statistics\\_t::BER](#)  
*(future) Bit Error Rate (errored bits per second).*
- unsigned long long [DCM::DeviceControl::InPort\\_8VSB\\_Statistics\\_t::RS\\_FEC\\_Correctable](#)  
*Number of correctable RS FEC errors.*
- unsigned long long [DCM::DeviceControl::InPort\\_8VSB\\_Statistics\\_t::RS\\_FEC\\_Uncorrectable](#)  
*Number of uncorrectable RS FEC errors.*
- unsigned long long [DCM::DeviceControl::InPort\\_8VSB\\_Statistics\\_t::RS\\_FEC\\_Clean](#)  
*Number of clean RS blocks.*
- IPS\_Ref\_t [DCM::DeviceControl::InPort\\_DvbS2\\_PortConfig\\_t::RefPhys](#)  
*port identifier*
- eDvbS2\_RxMode\_t [DCM::DeviceControl::InPort\\_DvbS2\\_PortConfig\\_t::RxMode](#)  
*single stream of multi-stream mode.*
- IPS\_Ref\_t [DCM::DeviceControl::InPort\\_DvbS2\\_TunerCfg\\_t::RefPhys](#)  
*port identifier*
- eDvbS2\_Mode\_t [DCM::DeviceControl::InPort\\_DvbS2\\_TunerCfg\\_t::Mode](#)  
*auto, DVB-S, DVB-S2*

- unsigned long `DCM::DeviceControl::InPort_DvbS2_TunerCfg_t::SatFrequency`  
*in KHz*
- unsigned long `DCM::DeviceControl::InPort_DvbS2_TunerCfg_t::SymbolRate`  
*in KSym/s (1000..45000)*
- `eDvbS2_Polarization_t` `DCM::DeviceControl::InPort_DvbS2_TunerCfg_t::Polarization`  
*horizontal or vertical*
- `eDvbS2_BandSelection_t` `DCM::DeviceControl::InPort_DvbS2_TunerCfg_t::BandSelection`  
*auto, forced low, forced high*
- long `DCM::DeviceControl::InPort_DvbS2_TunerCfg_t::SignalLowThreshold`
- long `DCM::DeviceControl::InPort_DvbS2_TunerCfg_t::SignalHighThreshold`
- unsigned short `DCM::DeviceControl::InPort_DvbS2_TunerCfg_t::CN_MarginLowThreshold`  
*1..10 dB. Units of 0.1 dB. Eg. 105 represents 10,5 dB*
- unsigned long `DCM::DeviceControl::InPort_DvbS2_TunerCfg_t::BER_HighThreshold`  
*units of 1E-10. Valid values : 1, 10, 100, 1000, 10000, 100000, 1000000, 2000000 (corresponds to 1E-10 1E-9 1E-8 1E-7 1E-6 1E-5 1E-4 2E-4).*
- unsigned long `DCM::DeviceControl::InPort_DvbS2_TunerCfg_t::PL_ScramblingSeqIndex`  
*0..262141*
- `IPS_Ref_t` `DCM::DeviceControl::InPort_DvbS2_LncCfg_t::RefPhys`  
*port identifier*
- `eDvbS2_LncType_t` `DCM::DeviceControl::InPort_DvbS2_LncCfg_t::LncType`  
*single band / dual band*
- unsigned long `DCM::DeviceControl::InPort_DvbS2_LncCfg_t::LoFrequency`  
*(single + dual) 1000000..20000000 KHz, step 125 KHz*
- unsigned long `DCM::DeviceControl::InPort_DvbS2_LncCfg_t::LoFrequencyHigh`  
*(dual only) 1000000..20000000 KHz, step 125 KHz*
- boolean `DCM::DeviceControl::InPort_DvbS2_LncCfg_t::bLncBias`  
*true to enable, false to disable (default)*
- `IPS_Ref_t` `DCM::DeviceControl::InPort_DvbS2_Status_t::RefPhys`  
*port identifier*
- boolean `DCM::DeviceControl::InPort_DvbS2_Status_t::bIsLocked`  
*true if locked, false if not locked*
- long `DCM::DeviceControl::InPort_DvbS2_Status_t::InputLevel`
- short `DCM::DeviceControl::InPort_DvbS2_Status_t::CN_Level`
- short `DCM::DeviceControl::InPort_DvbS2_Status_t::CN_Margin`
- unsigned long `DCM::DeviceControl::InPort_DvbS2_Status_t::BER`  
*units of 1E-10. Eg. 1000 represents 1E-7.*
- `eDvbS2_Mode_t` `DCM::DeviceControl::InPort_DvbS2_Status_t::DVBS_Mode`  
*Detected mode: DVB-S or DVB-S2.*
- `eDvbS2_Constellation_t` `DCM::DeviceControl::InPort_DvbS2_Status_t::Constellation`  
*Constellation.*
- `eDvbS2_FEC_CodeRate_t` `DCM::DeviceControl::InPort_DvbS2_Status_t::FEC_CodeRate`  
*FEC code rate.*
- unsigned long `DCM::DeviceControl::InPort_DvbS2_Status_t::TunerFrequency`  
*950000 ' 2150000 KHz*
- `eDvbS2_LNC_Band_t` `DCM::DeviceControl::InPort_DvbS2_Status_t::LNC_Band`  
*actual RF band (low or high)*
- `eDvbS2_SpectrumInversion_t` `DCM::DeviceControl::InPort_DvbS2_Status_t::SpectrumInversion`

- eDvbS2\_RxMode\_t [DCM::DeviceControl::InPort\\_DvbS2\\_Status\\_t::DetectedMode](#)  
*single stream or multi-stream detected.*
- eDvbS2\_MA\_Type\_t [DCM::DeviceControl::InPort\\_DvbS2\\_Status\\_t::MA\\_Type](#)  
*Coding and modulation type.*
- IPS\_Ref\_t [DCM::DeviceControl::InPort\\_DvbS2\\_Counters\\_t::RefPhys](#)  
*port identifier*
- unsigned long long [DCM::DeviceControl::InPort\\_DvbS2\\_Counters\\_t::BCH\\_UncorrectedErrors](#)
- unsigned long long [DCM::DeviceControl::InPort\\_DvbS2\\_Counters\\_t::RS\\_UncorrectedErrors](#)
- unsigned long long [DCM::DeviceControl::InPort\\_DvbS2\\_Counters\\_t::ErroredSeconds](#)
- unsigned long long [DCM::DeviceControl::InPort\\_DvbS2\\_Counters\\_t::SeverelyErroredSeconds](#)
- unsigned long long [DCM::DeviceControl::InPort\\_DvbS2\\_Counters\\_t::PacketsErrorCount](#)
- unsigned long long [DCM::DeviceControl::InPort\\_DvbS2\\_Counters\\_t::TotalPacketsCount](#)
- IPS\_Ref\_t [DCM::DeviceControl::DvbS2\\_LookupTS\\_t::RefPhys](#)  
*Identifies the DVB-S2 port.*
- DvbS2\_Isi\_t [DCM::DeviceControl::DvbS2\\_LookupTS\\_t::Isi](#)  
*Input stream identifier.*
- DvbS2\_LookupTS\_t [DCM::DeviceControl::DvbS2\\_RefTS\\_t::LookupTS](#)  
*the TS that needed looking up.*
- IPS\_RefTS\_t [DCM::DeviceControl::DvbS2\\_RefTS\\_t::RefTS](#)  
*TS references of the looked up TS. If not found, RefTS.Ref is set to INVALID\_ITF\_REF.*
- IPS\_RefTS\_t [DCM::DeviceControl::DvbS2\\_InputTS\\_t::RefIn](#)  
*Identifies the input stream (Board, Port and Ref).*
- DvbS2\_Isi\_t [DCM::DeviceControl::DvbS2\\_InputTS\\_t::Isi](#)  
*Input stream identifier (INVALID\_ISI in case of single stream).*
- IPS\_RefTS\_t [DCM::DeviceControl::Debug\\_DvbS2\\_InputTS\\_t::RefIn](#)  
*The location of the TS (Board, Port and Ref).*
- DvbS2\_Isi\_t [DCM::DeviceControl::Debug\\_DvbS2\\_InputTS\\_t::Isi](#)  
*Input stream identifier (INVALID\_ISI in case of single stream).*
- unsigned long [DCM::DeviceControl::Debug\\_DvbS2\\_InputTS\\_t::HwIndex](#)  
*The hardware index for a stream.*
- TableKeys\_t [DCM::DeviceControl::TableKeysExt\\_t::TableKey](#)
- unsigned long [DCM::DeviceControl::TableKeysExt\\_t::Location](#)  
*e.g. Event ID, TS\_ID, SID, PID,*
- TableKeysExt\_t [DCM::DeviceControl::DescriptorData\\_t::TableKey](#)
- eDescriptorType [DCM::DeviceControl::DescriptorData\\_t::DescriptorType](#)
- long [DCM::DeviceControl::DescriptorData\\_t::ID](#)
- string [DCM::DeviceControl::DescriptorData\\_t::UserName](#)
- octet [DCM::DeviceControl::DescriptorData\\_t::Tag](#)
- ByteStream [DCM::DeviceControl::DescriptorData\\_t::DescriptorData](#)
- octet [DCM::DeviceControl::DescriptorRule\\_t::Tag](#)
- ByteStream [DCM::DeviceControl::DescriptorRule\\_t::AdditionalBytes](#)
- TableKeysExt\_t [DCM::DeviceControl::DescriptorRuleSet\\_t::Key](#)
- DescriptorRuleList\_t [DCM::DeviceControl::DescriptorRuleSet\\_t::RulesList](#)
- unsigned short [DCM::DeviceControl::MergedESDescriptorData\\_t::OutputSid](#)
- IPS\_RefPid\_t [DCM::DeviceControl::MergedESDescriptorData\\_t::MergedES\\_InputPid](#)
- long [DCM::DeviceControl::MergedESDescriptorData\\_t::ID](#)
- string [DCM::DeviceControl::MergedESDescriptorData\\_t::UserName](#)
- octet [DCM::DeviceControl::MergedESDescriptorData\\_t::Tag](#)

- ByteStream [DCM::DeviceControl::MergedESDescriptorData\\_t::DescriptorData](#)
- eCompactCaMode [DCM::DeviceControl::CompactCaMode\\_t::Mode](#)
- boolean [DCM::DeviceControl::CompactCaMode\\_t::FollowDefaultRule](#)  
*readonly flag indicating if default compact CA settings are used*
- IPS\_RefTS\_t [DCM::DeviceControl::InTS\\_CompactCaMode\\_t::RefTSIn](#)
- CompactCaMode\_t [DCM::DeviceControl::InTS\\_CompactCaMode\\_t::CompactCaMode](#)
- unsigned long [DCM::DeviceControl::PSIGSubTable\\_t::OnId](#)  
*As in PSIG channel setup.*
- unsigned long [DCM::DeviceControl::PSIGSubTable\\_t::TsId](#)  
*As in PSIG channel setup.*
- ePsigType [DCM::DeviceControl::PSIGSubTable\\_t::PsigType](#)  
*Property of this PSIG connection (SA specific or not)*
- long [DCM::DeviceControl::PSIGSubTable\\_t::PsigId](#)  
*Identification of the PSIG connection (as used in the scrambler.idl functions)*
- unsigned short [DCM::DeviceControl::PSIGSubTable\\_t::ChannelId](#)  
*PSIG protocol channel ID.*
- unsigned short [DCM::DeviceControl::PSIGSubTable\\_t::StreamId](#)  
*PSIG protocol stream ID.*
- TableKeys\_t [DCM::DeviceControl::PSIGSubTable\\_t::Keys](#)  
*Table Keys (extracted from the sections which were provisioned)*
- unsigned short [DCM::DeviceControl::PSIGSubTable\\_t::Pid](#)  
*As in PSIG stream setup.*
- unsigned long [DCM::DeviceControl::IIOP\\_SubTable\\_t::OnId](#)  
*original network ID of targeted output TS.*
- unsigned long [DCM::DeviceControl::IIOP\\_SubTable\\_t::TsId](#)  
*transport stream ID of targeted output TS.*
- TableKeys\_t [DCM::DeviceControl::IIOP\\_SubTable\\_t::TableKeys](#)  
*identifies the sub-table.*
- unsigned short [DCM::DeviceControl::IIOP\\_SubTable\\_t::Pid](#)  
*the output PID where the sub-table is played out.*
- boolean [DCM::DeviceControl::IIOP\\_SubTable\\_t::bPureImport](#)  
*indicates if playout is identical to binary data. This parameter is not taken into account in the Delete-ImportedSubTableL call.*
- octet [DCM::DeviceControl::PspUpdateLocation\\_t::Id](#)
- unsigned long [DCM::DeviceControl::PspUpdateLocation\\_t::Detail](#)
- octet [DCM::DeviceControl::PspUpdateRule\\_t::Rule](#)
- string [DCM::DeviceControl::PspUpdateRule\\_t::RuleName](#)
- PspUpdateLocation\_t [DCM::DeviceControl::PspUpdateRule\\_t::Location](#)
- string [DCM::DeviceControl::PspUpdateRule\\_t::RuleData](#)
- IPS\_RefSvc\_t [DCM::DeviceControl::SvcOutPspUpdateRule\\_t::RefSvc](#)
- PspUpdateRuleList\_t [DCM::DeviceControl::SvcOutPspUpdateRule\\_t::PspUpdateRuleList](#)
- enRedusSwitchSource [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_t::REDUS\\_1\\_state](#)
- enRedusSwitchMode [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_t::REDUS\\_1\\_autoswitch](#)
- enRedusSwitchSource [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_t::REDUS\\_2\\_state](#)
- enRedusSwitchMode [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_t::REDUS\\_2\\_autoswitch](#)
- enRedusSwitchSource [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_t::REDUS\\_3\\_state](#)
- enRedusSwitchMode [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_t::REDUS\\_3\\_autoswitch](#)
- enRedusSwitchSource [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_t::REDUS\\_4\\_state](#)

- enRedusSwitchMode [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_t::REDUS\\_4\\_autoswitch](#)
- unsigned short [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_Single\\_t::REDUS\\_id](#)
- enRedusSwitchSource [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_Single\\_t::REDUS\\_state](#)
- enRedusSwitchMode [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_Single\\_t::REDUS\\_autoswitch](#)
- enTsInputSwitchSource [DCM::DeviceControl::Scte35Data\\_DCM\\_input\\_switch\\_t::DCM\\_radio\\_input](#)
- enTsInputSwitchMode [DCM::DeviceControl::Scte35Data\\_DCM\\_input\\_switch\\_t::DCM\\_radio\\_autoswitch](#)
- enTsInputSwitchSource [DCM::DeviceControl::Scte35Data\\_DCM\\_input\\_switch\\_t::DCM\\_local\\_input](#)
- enTsInputSwitchMode [DCM::DeviceControl::Scte35Data\\_DCM\\_input\\_switch\\_t::DCM\\_local\\_autoswitch](#)
- unsigned long [DCM::DeviceControl::Scte35Data\\_Select\\_now\\_t::SID](#)

*A.k.a. Program number.*

- enNetworkFeedActiveIndicator [DCM::DeviceControl::Scte35Data\\_Network\\_active\\_t::Network\\_active-indicator](#)
  - boolean [DCM::DeviceControl::Scte35Data\\_Network\\_active\\_t::SelectService](#)
  - enLocalFeedAvailableIndicator [DCM::DeviceControl::Scte35Data\\_Local\\_avail\\_t::Local\\_avail\\_indicator](#)
  - unsigned long [DCM::DeviceControl::Scte35Data\\_Keyer\\_t::Keyer\\_id](#)
  - boolean [DCM::DeviceControl::Scte35Data\\_Keyer\\_t::Keyer\\_on\\_indicator](#)
  - unsigned long [DCM::DeviceControl::Scte35Data\\_Keyer\\_config\\_t::Keyer\\_id](#)
  - unsigned long [DCM::DeviceControl::Scte35Data\\_Keyer\\_config\\_t::Logo\\_file\\_number](#)
  - enMotionMode [DCM::DeviceControl::Scte35Data\\_Keyer\\_config\\_t::Motion\\_mode](#)
  - boolean [DCM::DeviceControl::Scte35Data\\_Keyer\\_config\\_t::Update\\_flag](#)
  - unsigned short [DCM::DeviceControl::Scte35Data\\_Keyer\\_config\\_t::Position\\_x\\_offset](#)
  - unsigned short [DCM::DeviceControl::Scte35Data\\_Keyer\\_config\\_t::Position\\_y\\_offset](#)
  - unsigned short [DCM::DeviceControl::Scte35Data\\_Keyer\\_config\\_t::Transition\\_rate\\_on](#)
  - unsigned short [DCM::DeviceControl::Scte35Data\\_Keyer\\_config\\_t::Transition\\_rate\\_off](#)
  - unsigned short [DCM::DeviceControl::Scte35Data\\_Keyer\\_config\\_t::Opacity](#)
  - boolean [DCM::DeviceControl::Scte35Data\\_Logo\\_enable\\_t::Logo\\_enable](#)
  - Scte35Data\_REDUS\_Switch\_t [DCM::DeviceControl::Scte35CommandAndData\\_t::Data\\_REDUS-Switch](#)
  - Scte35Data\_DCM\_input\_switch\_t [DCM::DeviceControl::Scte35CommandAndData\\_t::Data\\_DCM-input\\_switch](#)
  - Scte35Data\_Select\_now\_t [DCM::DeviceControl::Scte35CommandAndData\\_t::Data\\_Select\\_now](#)
  - Scte35Data\_Network\_active\_t [DCM::DeviceControl::Scte35CommandAndData\\_t::Data\\_Network-active](#)
  - Scte35Data\_Local\_avail\_t [DCM::DeviceControl::Scte35CommandAndData\\_t::Data\\_Local\\_avail](#)
  - Scte35Data\_Keyer\_t [DCM::DeviceControl::Scte35CommandAndData\\_t::Data\\_Keyer](#)
  - Scte35Data\_Keyer\_config\_t [DCM::DeviceControl::Scte35CommandAndData\\_t::Data\\_Keyer\\_config](#)
  - Scte35Data\_Logo\_enable\_t [DCM::DeviceControl::Scte35CommandAndData\\_t::Data\\_Logo\\_Enable](#)
  - Scte35Data\_REDUS\_Switch\_Single\_t [DCM::DeviceControl::Scte35CommandAndData\\_t::Data\\_REDUS\\_Switch\\_single](#)
  - IPS\_RefSvc\_t [DCM::DeviceControl::FCS\\_Scte35\\_CommandSelect\\_t::SvcOut](#)
  - enFCS\_Scte35\_Commands [DCM::DeviceControl::FCS\\_Scte35\\_CommandSelect\\_t::CommandSelect](#)
  - IPS\_RefSvc\_t [DCM::DeviceControl::FCS\\_Scte35\\_CommandSelect\\_t::SwitchToLocalSvc](#)
  - octet [DCM::DeviceControl::MultipleStringSegment\\_t::CompressionType](#)
  - octet [DCM::DeviceControl::MultipleStringSegment\\_t::Mode](#)
  - ByteStream [DCM::DeviceControl::MultipleStringSegment\\_t::Data](#)
- String segment in UTF-8 format.*
- string [DCM::DeviceControl::MultipleStringElement\\_t::LanguageCode](#)
  - sequence< MultipleStringSegment\_t > [DCM::DeviceControl::MultipleStringElement\\_t::Segments](#)
  - IPS\_RefTS\_t [DCM::DeviceControl::OutTsStandard\\_t::RefTs](#)
  - eTableStandard\_t [DCM::DeviceControl::OutTsStandard\\_t::eStandard](#)



- IPS\_RefTS\_t [DCM::DeviceControl::OutTS\\_SttTimeZone\\_t::RefTs](#)
- string [DCM::DeviceControl::OutTS\\_SttTimeZone\\_t::TimeZone](#)
- eTriBool [DCM::DeviceControl::VCT\\_Data\\_t::VCT\\_Present](#)  
*Follow Input, Generate (Present), Block (Not Present) < status: true = VCT fragment is present at input (either CVCT or TVCT)*
- DvbString\_t [DCM::DeviceControl::VCT\\_Data\\_t::ShortName](#)  
*setting: actually the service user name < status: the short name as taken from input*
- MultipleString\_t [DCM::DeviceControl::VCT\\_Data\\_t::LongName](#)  
*more describing channel name optionally passed as descriptor. Empty string*
- unsigned short [DCM::DeviceControl::VCT\\_Data\\_t::MajorChannelNumber](#)  
*first part of channel number (10 bits)*
- unsigned short [DCM::DeviceControl::VCT\\_Data\\_t::MinorChannelNumber](#)  
*second part of channel number (10 bits)*
- eVctModulation [DCM::DeviceControl::VCT\\_Data\\_t::ModulationMode](#)  
*see eVctModulation, defaults: if modulation is not according to table*
- eVctEtmLocation [DCM::DeviceControl::VCT\\_Data\\_t::ETM\\_Location](#)  
*see VCT\_ETMLOCATION\_xxxx*
- eTriBool [DCM::DeviceControl::VCT\\_Data\\_t::AccessControlled](#)  
*true: channel is scrambled*
- eTriBool [DCM::DeviceControl::VCT\\_Data\\_t::Hidden](#)  
*true: channel is inactive, should not be listed*
- eTriBool [DCM::DeviceControl::VCT\\_Data\\_t::PathSelect](#)  
*(CVCT only) false: path 1, true: path 2*
- eTriBool [DCM::DeviceControl::VCT\\_Data\\_t::OutOfBand](#)  
*(CVCT only) true: out of band physical transmission*
- eTriBool [DCM::DeviceControl::VCT\\_Data\\_t::HideGuide](#)  
*(only valid when hidden flag is true) true: program may not be listed in program guide*
- eVctServiceType [DCM::DeviceControl::VCT\\_Data\\_t::ServiceType](#)  
*see VCT\_SERVICETYPE\_xxxx*
- unsigned short [DCM::DeviceControl::VCT\\_Data\\_t::SourceId](#)  
*internal reference, used for ETT-V and EIT's*
- IPS\_Service\_t [DCM::DeviceControl::VCT\\_SvcInput\\_t::RefServ](#)
- VCT\_Data\_t [DCM::DeviceControl::VCT\\_SvcInput\\_t::Data](#)
- boolean [DCM::DeviceControl::VCT\\_Forcing\\_t::ForceUserName](#)  
*true = use service user name as short name, false = use input short name*
- boolean [DCM::DeviceControl::VCT\\_Forcing\\_t::ForceLongName](#)  
*true = use filled in long name, false = use input long name*
- boolean [DCM::DeviceControl::VCT\\_Forcing\\_t::ForceChannelNumber](#)  
*true = use filled in channel number, false = use input channel number*
- boolean [DCM::DeviceControl::VCT\\_Forcing\\_t::ForceSourceId](#)  
*true = use filled in source id, false = use input source id*
- IPS\_Service\_t [DCM::DeviceControl::VCT\\_SvcSetting\\_t::RefServ](#)
- VCT\_Data\_t [DCM::DeviceControl::VCT\\_SvcSetting\\_t::Setting](#)
- VCT\_Forcing\_t [DCM::DeviceControl::VCT\\_SvcSetting\\_t::Forcing](#)
- VCT\_SvcSetting\_t [DCM::DeviceControl::VCT\\_SvcData\\_t::Setting](#)
- VCT\_Data\_t [DCM::DeviceControl::VCT\\_SvcData\\_t::Input](#)
- IPS\_RefTS\_t [DCM::DeviceControl::OutTsServiceLocationAdded\\_t::RefTs](#)

- boolean `DCM::DeviceControl::OutTsServiceLocationAdded_t::Added`
- `IPS_RefTS_t` `DCM::DeviceControl::OutTS_PsipEitStartPid_t::RefTs`
- unsigned short `DCM::DeviceControl::OutTS_PsipEitStartPid_t::StartPid`
- `IPS_RefTS_t` `DCM::DeviceControl::OutTS_PsipEttStartPid_t::RefTs`
- unsigned short `DCM::DeviceControl::OutTS_PsipEttStartPid_t::StartPid`
- `IPS_Service_t` `DCM::DeviceControl::Svc_PsipEitRegenerationInfo_t::RefServ`
- unsigned short `DCM::DeviceControl::Svc_PsipEitRegenerationInfo_t::NbrOfTables`
- `IPS_Service_t` `DCM::DeviceControl::Svc_PsipEttRegenerationInfo_t::RefServ`
- unsigned short `DCM::DeviceControl::Svc_PsipEttRegenerationInfo_t::NbrOfTables`
- `IPS_RefTS_t` `DCM::DeviceControl::OutTS_PsipEttvPid_t::RefTs`
- unsigned short `DCM::DeviceControl::OutTS_PsipEttvPid_t::Pid`
- `IPS_Service_t` `DCM::DeviceControl::ETTV_ContentSetting_t::RefServ`
- `MultipleString_t` `DCM::DeviceControl::ETTV_ContentSetting_t::Content`
- boolean `DCM::DeviceControl::ETTV_ContentSetting_t::Forcing`
- `ETTV_ContentSetting_t` `DCM::DeviceControl::ETTV_ContentData_t::Setting`
- `MultipleString_t` `DCM::DeviceControl::ETTV_ContentData_t::Input`
- unsigned short `DCM::DeviceControl::PsipMgtInfo_t::PID`
- unsigned short `DCM::DeviceControl::PsipMgtInfo_t::TableType`
- unsigned short `DCM::DeviceControl::PsipMgtInfo_t::VersionNumber`
- `IPS_RefTS_t` `DCM::DeviceControl::TS_PsipMgtInfo_t::RefTs`
- `PsipMgtInfoList_t` `DCM::DeviceControl::TS_PsipMgtInfo_t::PsipMgtInfoList`
- unsigned long `DCM::DeviceControl::BitRateMeasurement_t::CurBitRate`  
*Current BitRate: 1 bit/s resolution - max  $2^{32}-1$ .*
- unsigned long `DCM::DeviceControl::BitRateMeasurement_t::AvgBitRate`
- unsigned long `DCM::DeviceControl::BitRateMeasurement_t::MinBitRate`
- unsigned long `DCM::DeviceControl::BitRateMeasurement_t::MaxBitRate`
- `IPS_RefTS_t` `DCM::DeviceControl::TS_BitRateMeasurement_t::RefTS`
- `BitRateMeasurement_t` `DCM::DeviceControl::TS_BitRateMeasurement_t::TotalRate`
- `BitRateMeasurement_t` `DCM::DeviceControl::TS_BitRateMeasurement_t::StuffingRate`
- `IPS_Service_t` `DCM::DeviceControl::ServiceBitRateMeasurement_t::Service`
- `BitRateMeasurement_t` `DCM::DeviceControl::ServiceBitRateMeasurement_t::Rate`
- `IPS_RefTS_t` `DCM::DeviceControl::TS_CompBitRateMeasurement_t::RefTS`
- unsigned short `DCM::DeviceControl::TS_CompBitRateMeasurement_t::PID`
- string `DCM::DeviceControl::TS_CompBitRateMeasurement_t::strCompType`  
*PAT, SDT.*
- `BitRateMeasurement_t` `DCM::DeviceControl::TS_CompBitRateMeasurement_t::Rate`
- `IPS_Service_t` `DCM::DeviceControl::ServiceCompBitRateMeasurement_t::Service`
- unsigned short `DCM::DeviceControl::ServiceCompBitRateMeasurement_t::PID`
- string `DCM::DeviceControl::ServiceCompBitRateMeasurement_t::strCompType`  
*PMT, ES, ES\_ECM, ECM.*
- octet `DCM::DeviceControl::ServiceCompBitRateMeasurement_t::ES_Type`  
*dvb streamtype.*
- string `DCM::DeviceControl::ServiceCompBitRateMeasurement_t::strEsType`  
*Interpretation of Es\_Type in regard to m\_EsTypeStandard of the TS. Read only.*
- `BitRateMeasurement_t` `DCM::DeviceControl::ServiceCompBitRateMeasurement_t::Rate`
- `IPS_Service_t` `DCM::DeviceControl::ServiceBitRateSample_t::Service`
- `BitRateSampleList_t` `DCM::DeviceControl::ServiceBitRateSample_t::Sample`
- `IPS_Ref_t` `DCM::DeviceControl::TRBitRateSample_t::Ref`  
*Identifies the unique location (Board, Port).*



- unsigned long `DCM::DeviceControl::TRBitRateSample_t::GroupID`
- BitRateSampleList\_t `DCM::DeviceControl::TRBitRateSample_t::Sample`
- IPS\_Ref\_t `DCM::DeviceControl::TR_BitRateMeasurement_t::PhysRef`
- unsigned long `DCM::DeviceControl::TR_BitRateMeasurement_t::GroupID`
- BitRateMeasurement\_t `DCM::DeviceControl::TR_BitRateMeasurement_t::TotalRate`
- BitRateMeasurement\_t `DCM::DeviceControl::TR_BitRateMeasurement_t::StuffingRate`
- ClipID\_t `DCM::DeviceControl::SlateData_t::ID`
- string `DCM::DeviceControl::SlateData_t::Description`
- unsigned short `DCM::DeviceControl::SlateData_t::Width`
- unsigned short `DCM::DeviceControl::SlateData_t::Height`
- unsigned short `DCM::DeviceControl::SlateData_t::FrameRate`
- boolean `DCM::DeviceControl::SlateData_t::IsInUse`
- string `DCM::DeviceControl::TC_CaptionInfo_t::LanguageCode`  
*ISO\_639\_language\_code. Fixed length of 3 bytes !*
- boolean `DCM::DeviceControl::TC_CaptionInfo_t::DigitalCC`  
*0 means line21 caption service*
- boolean `DCM::DeviceControl::TC_CaptionInfo_t::Line21_Field`  
*Only interpreted if DigitalCC == 0. 0 means field 1, else field 2.*
- octet `DCM::DeviceControl::TC_CaptionInfo_t::CaptionSvcNbr`  
*value in the range 1 to 63. Only interpreted if DigitalCC == 1*
- boolean `DCM::DeviceControl::TC_CaptionInfo_t::EasyReader`  
*1 means tailored for easy reading*
- boolean `DCM::DeviceControl::TC_CaptionInfo_t::WideAspectRatio`  
*1 means 16:9 format; 0 means 4:3 format*
- enMFPB\_AudioProcessingMode\_t `DCM::DeviceControl::MFPB_BoardCfg_t::enMFPB_AudioProcessing-Mode`  
*How audio will be handled.*
- enMFPB\_Resources `DCM::DeviceControl::ResourcesLoad_t::Resources`  
*The type of resources.*
- unsigned long `DCM::DeviceControl::ResourcesLoad_t::Load100`  
*The relative load of resources times 100. If the value is 3456, the load is 34.56%.*
- unsigned short `DCM::DeviceControl::RefProcessorEngineUnit_t::EngineNr`  
*The processing engine.*
- unsigned short `DCM::DeviceControl::RefProcessorEngineUnit_t::UnitNr`  
*The unit within a processing engine.*
- RefProcessorEngineUnit\_t `DCM::DeviceControl::MFPB_EngineUnitCfg_t::RefEngineUnit`  
*unique reference to an engine unit*
- enMFPB\_EngineUnitType\_t `DCM::DeviceControl::MFPB_EngineUnitCfg_t::enMFPB_EngineUnit-Type`  
*read only engine unit type*
- enMFPB\_EngineUnitMode\_t `DCM::DeviceControl::MFPB_EngineUnitCfg_t::enMFPB_EngineUnit-Mode`  
*processing unit mode*
- unsigned long `DCM::DeviceControl::MFPB_EngineUnitCfg_t::Delay`  
*For VideoAudio engines 3000 - 5000 ms (Total delay), in ms. 4000 by default. (For 10.0 and 10.10 with delays < 3000 are set to 3000) < For AudioOnly engine 500 - 1500 ms (Total delay), in ms. 1500 by default.*
- unsigned long `DCM::DeviceControl::MFPB_EngineUnitCfg_t::MFPBEngineUnitProperty`  
*Read only Bitmap.*

- IPS\_RefSvc\_t [DCM::DeviceControl::MFPB\\_ServiceCfg\\_t::Service](#)
- RefProcessorEngineUnit\_t [DCM::DeviceControl::MFPB\\_ServiceCfg\\_t::RefEngineUnit](#)  
*The processor engine handling this service (engine nr == 0xFFFFE can be used to delay services)*
- enMFPB\_SlotType\_t [DCM::DeviceControl::MFPB\\_ServiceCfg\\_t::enMFPB\\_SlotType](#)  
*The slot type a service belongs to.*
- unsigned long [DCM::DeviceControl::MFPB\\_ServiceCfg\\_t::Delay](#)  
*For 500 - 5000 ms (Total delay), in ms. 4000 by default. The value is only used if engine nr == 0xFFFFE, else the engine end to end delay is used.*
- unsigned long [DCM::DeviceControl::MFPB\\_ServiceCfg\\_t::PCR\\_Interval](#)  
*10 - 100 ms, in ms. 37 by default.*
- boolean [DCM::DeviceControl::MFPB\\_ServiceCfg\\_t::PCR\\_InVideo](#)  
*Reserved for future use: Should the PCR be part of a video packet or should it use an empty packet (on the same PID).*
- enMFPB\_AdaptSI\_t [DCM::DeviceControl::MFPB\\_ServiceCfg\\_t::AdaptSI\\_Tables](#)  
*Default Adapt SI using DVB : will automatically adapt PMT, EIT and SDT content where necessary.*
- enMFPB\_MaxBitrateDescrMode\_t [DCM::DeviceControl::MFPB\\_ServiceCfg\\_t::enMaxBitrateDescriptor-Mode](#)
- RefProcessorEngineUnit\_t [DCM::DeviceControl::MFPB\\_MPEG2FramePicturesCfg\\_t::RefEngine-Unit](#)  
*The processor engine handling this service (engine nr == 0xFFFFE can be used to delay services)*
- boolean [DCM::DeviceControl::MFPB\\_MPEG2FramePicturesCfg\\_t::bMPEG2FramePicture](#)  
*Enable (true) or default disable (false) MPEG-2 Frame Pictures.*
- IPS\_RefSvc\_t [DCM::DeviceControl::MFPB\\_ServiceTrackingID\\_t::Service](#)
- MFPB\_TrackingID\_t [DCM::DeviceControl::MFPB\\_ServiceTrackingID\\_t::TrackingID](#)
- unsigned short [DCM::DeviceControl::MFPB\\_Component\\_t::Pid](#)
- MFPB\_TrackingID\_t [DCM::DeviceControl::MFPB\\_Component\\_t::TrackingId](#)  
*0 if the component matches no tracking criteria.*
- IPS\_RefSvc\_t [DCM::DeviceControl::MFPB\\_ServiceComponents\\_t::Service](#)
- MFPB\_ComponentList\_t [DCM::DeviceControl::MFPB\\_ServiceComponents\\_t::VideoComponents](#)  
*The video pids which can be processed.*
- MFPB\_ComponentList\_t [DCM::DeviceControl::MFPB\\_ServiceComponents\\_t::AudioComponents](#)  
*The audio pids which can be processed.*
- unsigned short [DCM::DeviceControl::MFPB\\_VideoResolution\\_t::Height](#)
- unsigned short [DCM::DeviceControl::MFPB\\_VideoResolution\\_t::Width](#)
- enMFPB\_ClosedCaptionFormat\_t [DCM::DeviceControl::MFPB\\_VideoStatus\\_t::enClosedCaptionFormat](#)
- MFPB\_VideoResolution\_t [DCM::DeviceControl::MFPB\\_VideoStatus\\_t::Resolution](#)  
*Output resolution.*
- unsigned long [DCM::DeviceControl::MFPB\\_VideoStatus\\_t::FrameRate1000](#)  
*Framerate for 1000 seconds (fps\*1000 eg, 29.97 Hz becomes 29970)*
- enMFPB\_AspectRatio\_t [DCM::DeviceControl::MFPB\\_VideoStatus\\_t::enDecoderAspectRatio](#)  
*Aspect Ratio of the incoming video stream.*
- enMFPB\_VideoCodec\_t [DCM::DeviceControl::MFPB\\_VideoStatus\\_t::enVideoDecoderCodec](#)  
*Video codec of the incoming video stream.*
- MFPB\_TrackingID\_t [DCM::DeviceControl::MFPB\\_VideoInformation\\_t::TrackingId](#)
- MFPB\_VideoStatus\_t [DCM::DeviceControl::MFPB\\_VideoInformation\\_t::DecoderStatus](#)
- IPS\_RefSvc\_t [DCM::DeviceControl::MFPB\\_VideoServiceInformation\\_t::Service](#)
- MFPB\_VideoInformationList\_t [DCM::DeviceControl::MFPB\\_VideoServiceInformation\\_t::Video](#)

- MFPB\_TrackingID\_t [DCM::DeviceControl::MFPB\\_VideoDecode\\_t::TrackingId](#)  
*0 when creating a new entry*
- TrackingCriterium\_t [DCM::DeviceControl::MFPB\\_VideoDecode\\_t::TrackingCriterium](#)
- IPS\_RefSvc\_t [DCM::DeviceControl::MFPB\\_VideoDecodeCfg\\_t::Service](#)
- MFPB\_VideoDecodeList\_t [DCM::DeviceControl::MFPB\\_VideoDecodeCfg\\_t::VideoDecodeList](#)
- enMFPB\_VertResolution\_t [DCM::DeviceControl::MFPB\\_VideoEncoderTemplate\\_t::enMFPB\\_Vert-Resolution](#)  
*Vertical Resolution.*
- unsigned long [DCM::DeviceControl::MFPB\\_VideoEncoderTemplate\\_t::uCustomVertResolution](#)  
*Future usage: Custom vertical resolution only used if enMFPB\_VertResolution is.*
- enMFPB\_HorizResolution\_t [DCM::DeviceControl::MFPB\\_VideoEncoderTemplate\\_t::enMFPB\\_Horiz-Resolution](#)  
*Horizontal Resolution.*
- unsigned long [DCM::DeviceControl::MFPB\\_VideoEncoderTemplate\\_t::uCustomHorizResolution](#)  
*Future usage: Custom horizontal resolution only used if enMFPB\_HorizResolution is.*
- enMFPB\_FrameRate\_t [DCM::DeviceControl::MFPB\\_VideoEncoderTemplate\\_t::enMFPB\\_FrameRate](#)  
*Frame rate.*
- enMFPB\_FrameRateReduction\_t [DCM::DeviceControl::MFPB\\_VideoEncoderTemplate\\_t::enMFPB-FrameRateReduction](#)  
*Frame rate reduction, Reserved for future use.*
- enMFPB\_Profile\_t [DCM::DeviceControl::MFPB\\_VideoEncoderTemplate\\_t::enMFPB\\_Profile](#)  
*Profile: see enMFPB\_Profile\_t for Mpeg2/Avc, transrate/transcode, SD/HD defaults and constraints.*
- unsigned long [DCM::DeviceControl::MFPB\\_VideoEncoderTemplate\\_t::Bitrate](#)  
*Bitrate in bps The meaning of the bitrate depends on the enBitrateMode (.*
- enMFPB\_VideoEncodingMode\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t::enVideoEncoding-Mode](#)  
*Processing mode TR/TC.*
- enMFPB\_VideoEncoderCodec\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t::enVideoEncoder-Codec](#)  
*Indicate whether Mpeg2/AVC is used.*
- enMFPB\_VideoMode\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t::enVideoMode](#)  
*Indicate whether this is SD/HD.*
- enMFPB\_BitrateMode [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t::enBitrateMode](#)  
*Choose between CBR, Capped VBR and Statmux.*
- MFPB\_VideoEncoderTemplate\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t::SdOutput-EncoderTemplate](#)  
*Template for SD output.*
- MFPB\_VideoEncoderTemplate\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t::HdOutput-EncoderTemplate](#)  
*Template for HD output. Not used in SD mode.*
- enMFPB\_GopStructure\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t::enMFPB\\_GopStructure](#)  
*The mode of the GOP structure(ignored for transrating, KeepClosed is used)*
- boolean [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t::bHierarchical](#)  
*AVC only. Hierarchical layered structure, default disabled (ignored for transrating + see GopStructure constraints)*
- unsigned short [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t::GopBPictures](#)

*Amount of B pictures. Range 0 to 5, default 2. 0 means IPP. (ignored for transrating + see GopStructure constraints)*

- unsigned short [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t::GopSize](#)  
*Number of I coded frames per gop. Range: 1..600, default 15, 1 means no B or P frames (ignored for transrating + GopStructure constraints)*
- unsigned long [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t::AVCIDR\\_Interval](#)  
*AVCIDR\_Interval This field has a 2 fold meaning 1) AVC only: Insert nr of IDR frames per gop.*
- enMFPB\_ClosedCaptions\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t::enClosedCaptions](#)

*Disable, auto, transcode, test.*

- MFPB\_TrackingID\_t [DCM::DeviceControl::MFPB\\_VideoEncode\\_t::TrackingId](#)  
*Must be equal to the tracking ID of a video decode.*
- MFPB\_VideoEncodeSettings\_t [DCM::DeviceControl::MFPB\\_VideoEncode\\_t::Settings](#)
- IPS\_RefSvc\_t [DCM::DeviceControl::MFPB\\_VideoEncodeCfg\\_t::Service](#)
- MFPB\_VideoEncodeList\_t [DCM::DeviceControl::MFPB\\_VideoEncodeCfg\\_t::VideoEncodeList](#)
- IPS\_RefSvc\_t [DCM::DeviceControl::MFPB\\_MultiResABR\\_t::Service](#)  
*Main MFP service reference.*
- boolean [DCM::DeviceControl::MFPB\\_MultiResABR\\_t::FragmentsEnabled](#)  
*Enable ABR syncing via Fragments.*
- boolean [DCM::DeviceControl::MFPB\\_MultiResABR\\_t::SegmentsEnabled](#)  
*Enable ABR syncing via Segments.*
- unsigned long [DCM::DeviceControl::MFPB\\_MultiResABR\\_t::FragmentLength](#)  
*Fragment length in seconds (range: 1 to 60s)*
- unsigned long [DCM::DeviceControl::MFPB\\_MultiResABR\\_t::SegmentLength](#)  
*Segment length in seconds (range: 1 to 60)*
- enMFPB\_VideoEncodingMode\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::enVideoEncodingMode](#)  
*Processing mode TR/TC.*
- enMFPB\_VideoEncoderCodec\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::enVideoEncoderCodec](#)  
*Indicate whether Mpeg2/AVC is used.*
- enMFPB\_VideoMode\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::enVideoMode](#)  
*Indicate whether this is SD/HD.*
- enMFPB\_BitrateMode [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::enBitrateMode](#)  
*Choose between CBR, Capped VBR and Statmux.*
- MFPB\_VideoEncoderTemplate\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::SdOutputEncoderTemplate](#)  
*Template for SD output.*
- MFPB\_VideoEncoderTemplate\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::HdOutputEncoderTemplate](#)  
*Template for HD output. Not used in SD mode.*
- enMFPB\_GopStructure\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::enMFPB\\_GopStructure](#)  
*The mode of the GOP structure(ignored for transrating, KeepClosed is used)*
- boolean [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::bHierarchical](#)  
*AVC only. Hierarchical layered structure, default disabled (ignored for transrating + see GopStructure constraints)*
- unsigned short [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::GopBPictures](#)

*Amount of B pictures. Range 0 to 5, default 2. 0 means IPP. (ignored for transrating + see GopStructure constraints)*

- unsigned short [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::GopSize](#)

*Number of I coded frames per gop. Range: 1..600, default 15, 1 means no B or P frames (ignored for transrating + GopStructure constraints)*

- unsigned long [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::AVC IDR\\_Interval](#)

*AVC IDR\_Interval This field has a 2 fold meaning 1) AVC only: Insert nr of IDR frames per gop.*

- enMFPB\_ClosedCaptions\_t [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::enClosedCaptions](#)

*Disable, auto, transcode, test.*

- enMFPB\_AspectRatioSigMode [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::enAspectRatioSigMode](#)

*Aspect Ratio Signaling mode. Auto (fixed for HD->HD, SD->SD), manual (fixed for HD->SD)*

- enMFPB\_AspectRatioSig [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::enAspectRatioSig](#)

*Aspect Ratio Signaling value. The value set in manual mode or fallback value for auto enAspectRatioSig-Mode. (4:3 SD default, 16:9 HD default)*

- enMFPB\_AfdMode [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::enAfdMode](#)

*Active format descriptor mode, only used for HD->SD downconversion. Manual | auto (Default)*

- enMFPB\_Afd [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::enAfd](#)

*Active format descriptor value. The value set in manual mode or fallback value for auto enAfdMode. (enMFPB\_Afd\_16\_9\_sp\_4\_3 by default)*

- enMFPB\_PAFF [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t::enPAFF](#)

*Reserved for future use, Picture Adaptive Frame Field Encoding MBAFF (default) | PAFF.*

- MFPB\_TrackingID\_t [DCM::DeviceControl::MFPB\\_VideoEncodeV2\\_t::TrackingId](#)

*Must be equal to the tracking ID of a video decode.*

- MFPB\_VideoEncodeSettingsV2\_t [DCM::DeviceControl::MFPB\\_VideoEncodeV2\\_t::Settings](#)

- IPS\_RefSvc\_t [DCM::DeviceControl::MFPB\\_VideoEncodeCfgV2\\_t::Service](#)

- MFPB\_VideoEncodeV2List\_t [DCM::DeviceControl::MFPB\\_VideoEncodeCfgV2\\_t::VideoEncodeList](#)

- enMFPB\_BitrateMode [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeSettings\\_t::enBitrateMode](#)

*Choose between CBR and Capped VBR.*

- unsigned long [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeSettings\\_t::uCustomVertResolution](#)

*Range: [1080-96] Multiple of 16 or one of (1080,720,600,576,544,480,360,320,288,272,240,224,180,160)*

- unsigned long [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeSettings\\_t::uCustomHorizResolution](#)

*Range: [1920-96] Multiple of 16 or one of (1920,1440,1280,1080,960,800,720,640,544,528,480,400,352,320,240,208,176,160,128)*

- enMFPB\_MR\_FrameRate\_t [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeSettings\\_t::enMFPB\\_FrameRate](#)

- enMFPB\_Profile\_t [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeSettings\\_t::enMFPB\\_Profile](#)

- enMFPB\_Level\_t [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeSettings\\_t::enLevel](#)

- enMFPB\_EntropyEncoding\_t [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeSettings\\_t::enEntropyEncoding](#)

- unsigned long [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeSettings\\_t::Bitrate](#)

*(kbps) Range: 300 kbps-64 Mbps*

- enMFPB\_GopStructure\_t [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeSettings\\_t::enMFPB\\_GopStructure](#)

*The mode of the GOP structure (Follow input and keep closed GOP not allowed)*

- boolean `DCM::DeviceControl::MFPB_MultiResVideoEncodeSettings_t::bHierarchical`  
*AVC only. Hierarchical layered structure, default disabled.*
- unsigned short `DCM::DeviceControl::MFPB_MultiResVideoEncodeSettings_t::GopBPictures`  
*Amount of B pictures. Range 0 to 5, default 2. 0 means IPP.*
- unsigned short `DCM::DeviceControl::MFPB_MultiResVideoEncodeSettings_t::GopSize`  
*Number of I coded frames per gop. Range: 1..600, default 15, 1 means no B or P frames.*
- unsigned long `DCM::DeviceControl::MFPB_MultiResVideoEncodeSettings_t::AVCIDR_Interval`  
*Not used for the moment.*
- `enMFPB_ClosedCaptions_t` `DCM::DeviceControl::MFPB_MultiResVideoEncodeSettings_t::enClosed-Captions`  
*Disable, auto.*
- `MFPB_TrackingID_t` `DCM::DeviceControl::MFPB_MultiResVideoEncode_t::TrackingId`  
*Must be equal to the tracking ID of a video decode.*
- `MFPB_MultiResVideoEncodeSettings_t` `DCM::DeviceControl::MFPB_MultiResVideoEncode_t::Settings`
- `IPS_RefSvc_t` `DCM::DeviceControl::MFPB_MultiResVideoEncodeCfg_t::Service`  
*MultRes service reference.*
- `MFPB_MultiResVideoEncodeList_t` `DCM::DeviceControl::MFPB_MultiResVideoEncodeCfg_t::Video-EncodeList`
- `enMFPB_AudioFormat_t` `DCM::DeviceControl::MFPB_AudioStatus_t::AudioFormat`
- `enMFPB_AudioStatusChannelConfiguration_t` `DCM::DeviceControl::MFPB_AudioStatus_t::Input-ChannelConfig`
- `enMFPB_AudioStatusSampleRate_t` `DCM::DeviceControl::MFPB_AudioStatus_t::SampleRate`
- boolean `DCM::DeviceControl::MFPB_AudioStatus_t::bLfeEnable`  
*LFE on(true)/off, only for AAC and Dolby.*
- long `DCM::DeviceControl::MFPB_AudioStatus_t::AudioLevel`  
*Reserved for future.*
- `MFPB_TrackingID_t` `DCM::DeviceControl::MFPB_AudioInformation_t::TrackingId`
- `MFPB_AudioStatus_t` `DCM::DeviceControl::MFPB_AudioInformation_t::DecoderStatus`
- `IPS_RefSvc_t` `DCM::DeviceControl::MFPB_AudioServiceInformation_t::Service`
- `MFPB_AudioInformationList_t` `DCM::DeviceControl::MFPB_AudioServiceInformation_t::Audio-Information`
- `MFPB_TrackingID_t` `DCM::DeviceControl::MFPB_AudioDecode_t::TrackingId`  
*0 when creating a new entry*
- `TrackingCriterium_t` `DCM::DeviceControl::MFPB_AudioDecode_t::TrackingCriterium`
- `enMFPB_AudioFormat_t` `DCM::DeviceControl::MFPB_AudioDecode_t::InputFormat`  
*Format of the input.*
- `enMFPB_AudioChannelConfiguration_t` `DCM::DeviceControl::MFPB_AudioDecode_t::InputChannel-Config`  
*Input channel configuration.*
- `IPS_RefSvc_t` `DCM::DeviceControl::MFPB_AudioDecodeCfg_t::Service`
- `MFPB_AudioDecodeList_t` `DCM::DeviceControl::MFPB_AudioDecodeCfg_t::AudioDecodeList`
- `enMFPB_AudioFormat_t` `DCM::DeviceControl::MFPB_AudioEncodeSettings_t::enFormat`  
*Audio encoding format, see `enMFPB_AudioFormat_t` for supported formats.*
- unsigned long `DCM::DeviceControl::MFPB_AudioEncodeSettings_t::Bitrate`  
*Bitrate in bps.*
- long `DCM::DeviceControl::MFPB_AudioEncodeSettings_t::LevelAdjustment`  
*Unit in dB times 10, Gui range -20 to 20 this is equivalent to value range -200 to 200.*



- `enMFPB_AudioSampleRate_t` `DCM::DeviceControl::MFPB_AudioEncodeSettings_t::enSampleRate`

*Must be follow input.*

- `enMFPB_AudioChannelConfiguration_t` `DCM::DeviceControl::MFPB_AudioEncodeSettings_t::enStreamConfiguration`

*Number of output channels. If source contains less channels, basic up mix will be performed.*

- `long` `DCM::DeviceControl::MFPB_AudioEncodeSettings_t::LipSyncAdjustment`  
*+/- 300 ms for lipsync adjustment.*

- `boolean` `DCM::DeviceControl::MFPB_AudioEncodeSettings_t::bCopyright`

*Not used (behaviour is follow input, or true if not available), Copyright, [yes (true) by default].*

- `boolean` `DCM::DeviceControl::MFPB_AudioEncodeSettings_t::bOriginal`

*Not used (behaviour is follow input, or true if not available), Original, [yes (true) by default].*

- `MFPB_TrackingID_t` `DCM::DeviceControl::MFPB_AudioEncode_t::TrackingId`

*Must be equal to the tracking ID of a Audio decode.*

- `MFPB_AudioEncodeSettings_t` `DCM::DeviceControl::MFPB_AudioEncode_t::Settings`
- `IPS_RefSvc_t` `DCM::DeviceControl::MFPB_AudioEncodeCfg_t::Service`
- `MFPB_AudioEncodeList_t` `DCM::DeviceControl::MFPB_AudioEncodeCfg_t::AudioEncodeList`
- `MFPB_TrackingID_t` `DCM::DeviceControl::MFPB_MPEGL2_AudioSettings_t::TrackingId`

*Identifies the elementary streams encoder where the setting should be added to.*

- `boolean` `DCM::DeviceControl::MFPB_MPEGL2_AudioSettings_t::bJointStereoEnable`  
*Joint Stereo [true (enable) default, false (disable)].*

- `IPS_RefSvc_t` `DCM::DeviceControl::MFPB_MPEGL2AudioCfg_t::Service`
- `MFPB_MPEGL2_AudioSettingsList_t` `DCM::DeviceControl::MFPB_MPEGL2AudioCfg_t::MPEGL2_AudioSettingsList`

*MPEG1-L2 Audio settings per ES.*

- `MFPB_TrackingID_t` `DCM::DeviceControl::MFPB_AAC_AudioSettings_t::TrackingId`

*Identifies the elementary streams encoder where the setting should be added to.*

- `enMFPB_AAC_TransportPacketMode_t` `DCM::DeviceControl::MFPB_AAC_AudioSettings_t::enTransportPacketizationMode`

*Bit stream mode, [MPEG-4 LATM/LOAS by default].*

- `enMFPB_AAC_AdvancedEncodingTools` `DCM::DeviceControl::MFPB_AAC_AudioSettings_t::enAdvancedEncodingTools`

*enAdvancedEncodingTools is constrained by:*

- `boolean` `DCM::DeviceControl::MFPB_AAC_AudioSettings_t::bLfeChannelEnable`

*LFE Channel Enable default true.*

- `IPS_RefSvc_t` `DCM::DeviceControl::MFPB_AacAudioCfg_t::Service`
- `MFPB_AAC_AudioSettingsList_t` `DCM::DeviceControl::MFPB_AacAudioCfg_t::AAC_AudioSettingsList`

*AAC Audio settings per ES.*

- `MFPB_TrackingID_t` `DCM::DeviceControl::MFPB_Dolby_AudioSettings_t::TrackingId`

*Identifies the elementary streams encoder where the setting should be added to.*

- `enMFPB_Dolby_BitStreamMode` `DCM::DeviceControl::MFPB_Dolby_AudioSettings_t::enBitStreamMode`

*Bit stream mode, [CompleteMain by default].*

- `enMFPB_Dolby_DynamicRangeControl` `DCM::DeviceControl::MFPB_Dolby_AudioSettings_t::enDynamicRangeControlLine`

*Dynamic range control (line), [FilmStandard by default].*

- enMFPB\_Dolby\_DynamicRangeControl DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::enDynamicRangeControlRf  
*Dynamic range control (RF), [FilmStandard by default].*
- boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bBandwithLimitLowPassFilter  
*Bandwith Limit Low Pass Filter, [Off (false) by default].*
- boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bDcHighPassFilter  
*DC High Pass Filter, [Off (false) by default].*
- enMFPB\_Dolby\_DigitalDeEmphasis DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::enDigitalDeEmphasis  
*Digital De-Emphasis, [None by default].*
- enMFPB\_Dolby\_SurroundMode DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::enSurroundMode  
*Surround Mode, [NotIndicated by default].*
- long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::lCentreMixLevel  
*For Future functionality, Unit in [dB].*
- long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::lSurroundMixLevel  
*For Future functionality, Unit in [dB].*
- boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bLFE\_LowPassFilter  
*For Future functionality,.*
- boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bPhaseShift  
*For Future functionality.*
- boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bChannelAttenuation  
*For Future functionality.*
- boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bMainProductInfoExists  
*Production Information Exists, [No (false) by default].*
- enMFPB\_Dolby\_RoomType DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::enRoomType  
*Room Type, [SmallRoom by default].*
- long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::lMainMixingLevel  
*Mixing Level, Unit in [dB] - Range [80 <-> 111] - [105 by default].*
- long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::lMainDialogNormalizationLevel  
*Dialog Normalization Level, Unit in [dB] - Range [-31 <-> -1] - [-23 by default].*
- boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bAuxProductionInfoExists  
*Aux Production Information Exists, [No (false) by default].*
- enMFPB\_Dolby\_RoomType DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::enAuxRoomType  
*Aux Room Type, [SmallRoom by default].*
- long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::lAuxMixingLevel  
*Aux Mixing Level, Unit in [dB] - Range [80 <-> 111] - [105 by default].*
- long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::lAuxDialogNormalizationLevel  
*Aux Dialog Normalization Level, Unit in [dB] - Range [-31 <-> -1] - [-23 by default].*
- enMFPB\_Dolby\_BitStreamMode DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::enExtendedBSI\_BitStreamMode  
*For Future functionality,.*
- long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::lLtRtCentreMixLevel  
*For Future functionality, Unit in [dB].*
- long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::lLtRtSurroundMixLevel  
*For Future functionality, Unit in [dB].*



- long [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_t::lLoRoCentreMixLevel](#)  
*For Future functionality, Unit in [dB].*
- long [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_t::lLoRoSurroundMixLevel](#)  
*For Future functionality, Unit in [dB].*
- enMFPB\_Dolby\_SurroundMode [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_t::enSurround-ExMode](#)  
*For Future functionality.*
- IPS\_RefSvc\_t [DCM::DeviceControl::MFPB\\_DolbyAudioCfg\\_t::Service](#)
- MFPB\_Dolby\_AudioSettingsList\_t [DCM::DeviceControl::MFPB\\_DolbyAudioCfg\\_t::Dolby\\_Audio-SettingsList](#)  
*Dolby Audio settings per ES.*
- MFPB\_TrackingID\_t [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::TrackingId](#)  
*Identifies the elementary streams encoder where the setting should be added to.*
- enMFPB\_Dolby\_BitStreamMode [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::enBit-StreamMode](#)  
*Bit stream mode, [CompleteMain by default].*
- enMFPB\_Dolby\_DynamicRangeControl [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2-  
\\_t::enDynamicRangeControlLine](#)  
*Dynamic range control (line), [FilmStandard by default].*
- enMFPB\_Dolby\_DynamicRangeControl [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2-  
\\_t::enDynamicRangeControlRf](#)  
*Dynamic range control (RF), [FilmStandard by default].*
- boolean [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::bBandwithLimitLowPassFilter](#)  
  
*Bandwith Limit Low Pass Filter, [Off (false) by default].*
- boolean [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::bDcHighPassFilter](#)  
*DC High Pass Filter, [Off (false) by default].*
- enMFPB\_Dolby\_DigitalDeEmphasis [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::en-DigitalDeEmphasis](#)  
*Digital De-Emphasis, [None by default].*
- boolean [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::bLfeChannelEnable](#)  
*LFE Channel Enable, [On (true) default, Off].*
- enMFPB\_Dolby\_SurroundMode [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::enSurround-Mode](#)  
*Surround Mode, [NotIndicated by default].*
- long [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::lCentreMixLevel](#)  
*Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-3 (default), -4.5, -6]. Ignored if enExtendedBSI\_Mode is XBSI mode.*
- long [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::lSurroundMixLevel](#)  
*Surround Mix Level (dB) times 10 (eg. value -60 will be -6 in the GUI). Discrete values [-3 (default), -6, -99.9 (Infinite)]. Ignored if enExtendedBSI\_Mode is XBSI mode.*
- boolean [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::bLFE\\_LowPassFilter](#)  
*LFE Low Pass Filter, [On(true), Off default], Only used if LFE channel is enabled.*
- boolean [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::bPhaseShift](#)  
*Surround 90 deg Phase Shift, [On(true), Off default], Only used if LFE channel is enabled.*
- boolean [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::bChannelAttenuation](#)  
*Surround Channel Attenuation, [On(true), Off default], Only used if LFE channel is enabled.*
- boolean [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::bMainProductInfoExists](#)

*Production Information Exists, [No (false) by default].*

- enMFPB\_Dolby\_RoomType [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::enRoomType](#)

*Room Type, [SmallRoom by default].*

- long [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::lMainMixingLevel](#)

*Mixing Level, Unit in [dB] - Range [80 <-> 111] - [105 by default].*

- long [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::lMainDialogNormalizationLevel](#)
- boolean [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::bAuxProductionInfoExists](#)

*Aux Production Information Exists, [No (false) by default]. Only used for dual mono.*

- enMFPB\_Dolby\_RoomType [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::enAuxRoomType](#)

*Aux Room Type, [SmallRoom by default]. Only used for dual mono.*

- long [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::lAuxMixingLevel](#)

*Aux Mixing Level, Unit in [dB] - Range [80 <-> 111] - [105 by default]. Only used for dual mono.*

- long [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::lAuxDialogNormalizationLevel](#)

*Aux Dialog Normalization Level, Unit in [dB] - Range [-31 <-> -1] - [-23 by default]. Only used for dual mono.*

- enMFPB\_ExtendedBSI\_Mode [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::enExtBSI\\_Mode](#)

*Extended BSI Mode. [standard, XBSI default].*

- enMFPB\_Downmix\_ToStereo [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::enDownmix\\_ToStereo](#)

*Preferred Stereo Downmix Mode [LTRT, LORO, NotIndicated default].*

- long [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::lLtRtCentreMixLevel](#)

*Lt/Rt Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [3, 1.5, 0, -1.5, -3 (default), -4.5, -6, -99.9 (Infinite)].*

- long [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::lLtRtSurroundMixLevel](#)

*Lt/Rt Surround Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-1.5, -3 (default), -4.5, -6, -99.9 (Infinite)].*

- long [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::lLoRoCentreMixLevel](#)

*Lo/Ro Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [3, 1.5, 0, -1.5, -3 (default), -4.5, -6, -99.9 (Infinite)].*

- long [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::lLoRoSurroundMixLevel](#)

*Lo/Ro Surround Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-1.5, -3 (default), -4.5, -6, -99.9 (Infinite)].*

- enMFPB\_Dolby\_SurroundExMode [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t::enSurroundExMode](#)

*Dolby Surround Ex mode. Disabled default.*

- IPS\_RefSvc\_t [DCM::DeviceControl::MFPB\\_DolbyAudioCfg\\_V2\\_t::Service](#)

- MFPB\_Dolby\_AudioSettingsList\_V2\_t [DCM::DeviceControl::MFPB\\_DolbyAudioCfg\\_V2\\_t::Dolby\\_AudioSettingsList](#)

*Dolby Audio settings per ES.*

- MFPB\_TrackingID\_t [DCM::DeviceControl::MFPB\\_AudioDecodeExtraMPEGL2Settings\\_t::TrackingId](#)

*Identifies the elementary streams encoder where the setting should be added to (.*

- enMFPB\_Downmix\_ToMono [DCM::DeviceControl::MFPB\\_AudioDecodeExtraMPEGL2Settings\\_t::enDualMonoToMono](#)

*Select how to convert dual mono channels to mono. [Left by default].*

- unsigned short [DCM::DeviceControl::MFPB\\_AudioDecodeExtraMPEGL2Settings\\_t::Pid](#)

*For Future functionality. The new PID value for the extra right channel. Only used when enDualMonoToMono is split.*

- IPS\_RefSvc\_t [DCM::DeviceControl::MFPB\\_AudioDecodeExtraMPEGL2Cfg\\_t::Service](#)
- MFPB\_AudioDecodeExtraMPEGL2SettingsList\_t [DCM::DeviceControl::MFPB\\_AudioDecodeExtraMPEGL2Cfg\\_t::AudioDecodeExtraMPEGL2SettingsList](#)

*Extra decoder settings per ES.*

- MFPB\_TrackingID\_t [DCM::DeviceControl::MFPB\\_AudioDecodeExtraAACSettings\\_t::TrackingId](#)

*Identifies the elementary streams encoder where the setting should be added to (.*

- enMFPB\_Downmix\_ToStereo [DCM::DeviceControl::MFPB\\_AudioDecodeExtraAACSettings\\_t::en5\\_1ToStereo](#)

*Select channels to keep when converting to stereo. Allowed values are LTRT and [LORO default].*

- boolean [DCM::DeviceControl::MFPB\\_AudioDecodeExtraAACSettings\\_t::bIsCenterCoefficient](#)

*Center Coefficient Present Yes(true)/[No default].*

- long [DCM::DeviceControl::MFPB\\_AudioDecodeExtraAACSettings\\_t::lCenterCoefficient](#)

*Center Coefficient TODO: range and default.*

- boolean [DCM::DeviceControl::MFPB\\_AudioDecodeExtraAACSettings\\_t::bIsSurroundCoefficient](#)

*Surround Coefficient Present Yes(true)/[No default].*

- long [DCM::DeviceControl::MFPB\\_AudioDecodeExtraAACSettings\\_t::lSurroundCoefficient](#)

*Surround Coefficient TODO range and default.*

- IPS\_RefSvc\_t [DCM::DeviceControl::MFPB\\_AudioDecodeExtraAACCfg\\_t::Service](#)

- MFPB\_AudioDecodeExtraAACSettingsList\_t [DCM::DeviceControl::MFPB\\_AudioDecodeExtraAACCfg\\_t::AudioDecodeExtraAACSettingsList](#)

*Extra AAC decoder settings per ES.*

- MFPB\_TrackingID\_t [DCM::DeviceControl::MFPB\\_AudioDecodeExtraDolbySettings\\_t::TrackingId](#)

*Identifies the elementary streams encoder where the setting should be added to (.*

- enMFPB\_Downmix\_ToMono [DCM::DeviceControl::MFPB\\_AudioDecodeExtraDolbySettings\\_t::enDualMonoToMono](#)

*Select how to convert dual mono channels to mono. [Left by default].*

- unsigned short [DCM::DeviceControl::MFPB\\_AudioDecodeExtraDolbySettings\\_t::Pid](#)

*For Future functionality. The new PID value for the extra right channel. Only used when enDualMonoToMono is split.*

- enMFPB\_Downmix\_ToStereo [DCM::DeviceControl::MFPB\\_AudioDecodeExtraDolbySettings\\_t::en5\\_1ToStereo](#)

*Select channels to keep when converting to stereo. Allowed values are LTRT, [LORO default] and auto.*

- enMFPB\_DolbyDec\_DynComp [DCM::DeviceControl::MFPB\\_AudioDecodeExtraDolbySettings\\_t::enDynCompMode](#)

*Dynamic Compression Mode [Line by default].*

- unsigned short [DCM::DeviceControl::MFPB\\_AudioDecodeExtraDolbySettings\\_t::uCompressionCut10](#)

*Compression Cut times 10 (eg. value 9 will be 0.9 in the GUI). Range [0,10 default]. Only used in custom Dynamic Compression Mode, else ignored and set to 10 or 0 in case of DynComp\_None.*

- unsigned short [DCM::DeviceControl::MFPB\\_AudioDecodeExtraDolbySettings\\_t::uCompressionBoost10](#)

*Compression Boost times 10 (eg. value 9 will be 0.9 in the GUI). Range [0,10 default]. Only used in custom Dynamic Compression Mode, else ignored and set to 10 or 0 in case of DynComp\_None.*

- unsigned short [DCM::DeviceControl::MFPB\\_AudioDecodeExtraDolbySettings\\_t::uCompressionScalingFactor10](#)

*For Future functionality. Compression Scaling factor times 10 (eg. value 9 will be 0.9 in the GUI). Range [0,10 default]. Only used in line and custom Dynamic Compression Mode.*

- boolean `DCM::DeviceControl::MFPB_AudioDecodeExtraDolbySettings_t::bErrorConcealment`  
*Error Concealment: [On default]/Off(false)*
- `IPS_RefSvc_t` `DCM::DeviceControl::MFPB_AudioDecodeExtraDolbyCfg_t::Service`
- `MFPB_AudioDecodeExtraDolbySettingsList_t` `DCM::DeviceControl::MFPB_AudioDecodeExtraDolby-Cfg_t::AudioDecodeExtraDolbySettingsList`  
*Extra Dolby decoder settings per ES.*
- `MFPB_TrackingID_t` `DCM::DeviceControl::MFPB_ES_CaptionInfo_t::TrackingId`  
*Identifies the elementary stream where the Caption Service Descriptor should be added to.*
- unsigned short `DCM::DeviceControl::MFPB_ES_CaptionInfo_t::EncoderId`  
*Set to 0 (main service only)*
- `enTC_CaptionDescriptorMode_t` `DCM::DeviceControl::MFPB_ES_CaptionInfo_t::CaptionMode`
- `TC_CaptionInfoList_t` `DCM::DeviceControl::MFPB_ES_CaptionInfo_t::CaptionInfoList`  
*factory default: empty list. In "Add" mode, a non-empty list must be present.*
- `IPS_RefSvc_t` `DCM::DeviceControl::MFPB_Svc_CaptionInfo_t::Service`
- `MFPB_ES_CaptionInfoList_t` `DCM::DeviceControl::MFPB_Svc_CaptionInfo_t::ES_CaptionInfoList`
- `enMFPB_AudioFormat_t` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::enAudioFormat`  
*Dolby Digital or Dolby Digital Plus.*
- `enMFPB_AudioStatusChannelConfiguration_t` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::en-InputChannelConfig`  
*Channel configuration.*
- `enMFPB_AudioStatusSampleRate_t` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::enSampleRate`
- boolean `DCM::DeviceControl::MFPB_DD_MetaStatus_t::bLfeEnable`  
*LFE on(true)/off, only for AAC and Dolby.*
- long `DCM::DeviceControl::MFPB_DD_MetaStatus_t::lAudioLevel`  
*Reserved for future.*
- unsigned short `DCM::DeviceControl::MFPB_DD_MetaStatus_t::uBitStreamID`  
*Bit Stream ID.*
- `enMFPB_Dolby_BitStreamMode` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::enBitStreamMode`  
*Bit Stream Mode.*
- unsigned long `DCM::DeviceControl::MFPB_DD_MetaStatus_t::uDataRate`  
*Data Rate (bps)*
- boolean `DCM::DeviceControl::MFPB_DD_MetaStatus_t::bMainProductInfoExists`  
*Audio Production Info Exists.*
- long `DCM::DeviceControl::MFPB_DD_MetaStatus_t::lMainDialnorm`  
*Dialnorm (dB) times 10.*
- long `DCM::DeviceControl::MFPB_DD_MetaStatus_t::lMainMixLevel`  
*Mix Level (dB) times 10.*
- `enMFPB_Dolby_RoomType` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::enMainRoomType`  
*Room Type.*
- boolean `DCM::DeviceControl::MFPB_DD_MetaStatus_t::bAuxProductInfoExists`  
*Audio Production Info Exists.*
- long `DCM::DeviceControl::MFPB_DD_MetaStatus_t::lAuxDialnorm`  
*Dialnorm (dB) times 10.*
- long `DCM::DeviceControl::MFPB_DD_MetaStatus_t::lAuxMixLevel`

*Mix Level (dB) times 10.*

- `enMFPB_Dolby_RoomType` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::enAuxRoomType`  
*Room Type.*
- `enMFPB_Dolby_SurroundMode` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::enSurroundMode`

*Dolby Surround Mode.*

- `enMFPB_Dolby_SurroundExMode` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::enSurroundEx-Mode`

*Dolby Surround Ex mode.*

- `long` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::lCentreMixLevel`  
*Center Mix Level dB times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-3, -4.5, -6].*
- `long` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::lSurroundMixLevel`  
*Surround Mix Level dB times 10 (eg. value -60 will be -6 in the GUI). Discrete values [-3, -6, -99.9 (-Infinite)].*
- `enMFPB_ExtendedBSI_Mode` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::enExtBSI_Mode`  
*Extended BSI Mode.*
- `enMFPB_Downmix_ToStereo` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::enDownmix_ToStereo`

*Preferred Stereo Downmix Mode.*

- `long` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::lLtRtCentreMixLevel`  
*Lt/Rt Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [3, 1.5, 0, -1.5, -3, -4.5, -6, -99.9 (Infinite)].*
- `long` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::lLtRtSurroundMixLevel`  
*Lt/Rt Surround Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-1.5, -3, -4.5, -6, -99.9 (Infinite)].*
- `long` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::lLoRoCentreMixLevel`  
*Lo/Ro Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [3, 1.5, 0, -1.5, -3, -4.5, -6, -99.9 (Infinite)].*
- `long` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::lLoRoSurroundMixLevel`  
*Lo/Ro Surround Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-1.5, -3, -4.5, -6, -99.9 (Infinite)].*
- `boolean` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::bCopyright`  
*Copyright, yes (true)/no.*
- `boolean` `DCM::DeviceControl::MFPB_DD_MetaStatus_t::bOriginal`  
*Original, yes (true)/no.*
- `MFPB_TrackingID_t` `DCM::DeviceControl::MFPB_DD_MetaDecStatus_t::TrackingId`
- `MFPB_DD_MetaStatus_t` `DCM::DeviceControl::MFPB_DD_MetaDecStatus_t::DD_MetaStatus`  
*Status of the meta data.*
- `IPS_RefSvc_t` `DCM::DeviceControl::MFPB_ServiceDD_MetaDecStatus_t::Service`
- `MFPB_DD_MetaDecStatusList_t` `DCM::DeviceControl::MFPB_ServiceDD_MetaDecStatus_t::DD-  
_MetaDecStatusL`
- `MFPB_TrackingID_t` `DCM::DeviceControl::MFPB_MetaDataCfg_t::TrackingId`
- `enMFPB_MetaDataPass_t` `DCM::DeviceControl::MFPB_MetaDataCfg_t::enMetaDataPass`  
*Setting to determine how audio meta data is passed between decoder and encoder. Auto by default (Default manual for services set before 10.20)*
- `IPS_RefSvc_t` `DCM::DeviceControl::MFPB_ServiceMetaDataCfg_t::Service`
- `MFPB_MetaDataCfgList_t` `DCM::DeviceControl::MFPB_ServiceMetaDataCfg_t::MetaDataCfgL`
- `unsigned long` `DCM::DeviceControl::TC_BoardCfg_t::HD_Slots`
- `unsigned long` `DCM::DeviceControl::TC_BoardCfg_t::SD_Slots`

- unsigned long `DCM::DeviceControl::TC_BoardCfg_t::Audio_Slots`
- boolean `DCM::DeviceControl::TC_PossibleBoardCfg_t::isPossible`

*Is it possible to apply this board configuration.*

- `TC_BoardCfg_t` `DCM::DeviceControl::TC_PossibleBoardCfg_t::BoardCfg`
- unsigned long `DCM::DeviceControl::TC_BoardCfg_V2_t::HD_Slots`
- unsigned long `DCM::DeviceControl::TC_BoardCfg_V2_t::SD_Slots`
- unsigned long `DCM::DeviceControl::TC_BoardCfg_V2_t::Audio_Slots`
- unsigned long `DCM::DeviceControl::TC_BoardCfg_V2_t::Pip_Slots`
- boolean `DCM::DeviceControl::TC_PossibleBoardCfg_V2_t::isPossible`

*Is it possible to apply this board configuration.*

- `TC_BoardCfg_V2_t` `DCM::DeviceControl::TC_PossibleBoardCfg_V2_t::BoardCfg`
- `IPS_RefSvc_t` `DCM::DeviceControl::EsEntry_t::RefSvcOut`
- `IPS_RefPid_t` `DCM::DeviceControl::EsEntry_t::SrcPidRef`
- octet `DCM::DeviceControl::EsEntry_t::EsType`
- `SelectionId_t` `DCM::DeviceControl::SelectionListEntry_t::SelectionId`
- `EsList_t` `DCM::DeviceControl::SelectionListEntry_t::EsList`
- octet `DCM::DeviceControl::TC_Question_t::ChoicesToMake`
- `SelectionList_t` `DCM::DeviceControl::TC_Question_t::SelectionList`
- `SelectionIdList_t` `DCM::DeviceControl::TC_DependantQuestion_t::Answers`
- `TC_QuestionList_t` `DCM::DeviceControl::TC_DependantQuestion_t::Questions`
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_ServiceTrackingID_t::Service`
- `TrackingID_t` `DCM::DeviceControl::TC_ServiceTrackingID_t::TrackingID`
- `enTC_Profile_t` `DCM::DeviceControl::TC_VideoEncodeSettings_t::enProfile`

*Applies if the input is SD. The HD output is always high profile.*

- unsigned long `DCM::DeviceControl::TC_VideoEncodeSettings_t::SD_Bitrate`
- unsigned long `DCM::DeviceControl::TC_VideoEncodeSettings_t::HD_Bitrate`
- boolean `DCM::DeviceControl::TC_VideoEncodeSettings_t::LoopFilter`
- unsigned long `DCM::DeviceControl::TC_VideoEncodeSettings_t::CPB_Delay`

*Maximum CPB removal delay, in ms. 500 - 1500 ms, and between (service delay - 1306) and (service delay - 452).*

- `enTC_VBR_Quality_t` `DCM::DeviceControl::TC_VideoEncodeSettings_t::enVBR_Quality`
- `enTC_EncodingMode_t` `DCM::DeviceControl::TC_VideoEncodeSettings_t::enEncodingMode`
- `enTC_ClosedCaptionMode_t` `DCM::DeviceControl::TC_VideoEncodeSettings_t::enClosedCaption-Mode`
- `TrackingID_t` `DCM::DeviceControl::TC_VideoDecode_t::TrackingId`

*0 when creating a new entry*

- `TrackingCriterium_t` `DCM::DeviceControl::TC_VideoDecode_t::TrackingCriterium`
- boolean `DCM::DeviceControl::TC_VideoDecode_t::HD_Service`

*If set both SD and HD services can be transcoded.*

- `TrackingID_t` `DCM::DeviceControl::TC_VideoEncode_t::TrackingId`

*Must be equal to the tracking ID of a video decode.*

- `TC_VideoEncodeSettings_t` `DCM::DeviceControl::TC_VideoEncode_t::Settings`
- `enTC_Profile_t` `DCM::DeviceControl::TC_VideoSettings_t::enProfile`

*Applies if the input is SD. The HD output is always high profile.*

- unsigned long `DCM::DeviceControl::TC_VideoSettings_t::SD_Bitrate`
- unsigned long `DCM::DeviceControl::TC_VideoSettings_t::HD_Bitrate`



- 5.0 - 12.0Mbps, in bps.
- boolean `DCM::DeviceControl::TC_VideoSettings_t::HD_Service`  
*If set both SD and HD services can be transcoded. SD services will use SD\_Bitrate, HD services will use HD\_Bitrate.*
- boolean `DCM::DeviceControl::TC_VideoSettings_t::LoopFilter`
- unsigned long `DCM::DeviceControl::TC_VideoSettings_t::CPB_Delay`  
*Maximum CPB removal delay, in ms. 500 - 1500 ms, and between (service delay - 1306) and (service delay - 452).*
- `enTC_VBR_Quality_t` `DCM::DeviceControl::TC_VideoSettings_t::enVBR_Quality`
- `enTC_EncodingMode_t` `DCM::DeviceControl::TC_VideoSettings_t::enEncodingMode`
- `enTC_ClosedCaptionMode_t` `DCM::DeviceControl::TC_VideoSettings_t::enClosedCaptionMode`
- unsigned short `DCM::DeviceControl::TC_VideoResolution_t::Height`
- unsigned short `DCM::DeviceControl::TC_VideoResolution_t::Width`
- `enTC_ClosedCaptionFormat_t` `DCM::DeviceControl::TC_VideoStatus_t::enClosedCaptionFormat`
- `TC_VideoResolution_t` `DCM::DeviceControl::TC_VideoStatus_t::Resolution`
- `TrackingID_t` `DCM::DeviceControl::TC_Video_t::TrackingId`  
*0 when creating a new entry*
- `TrackingCriterium_t` `DCM::DeviceControl::TC_Video_t::TrackingCriterium`
- `TC_VideoSettings_t` `DCM::DeviceControl::TC_Video_t::Settings`
- `TrackingID_t` `DCM::DeviceControl::TC_VideoInformation_t::TrackingId`
- `TC_VideoStatus_t` `DCM::DeviceControl::TC_VideoInformation_t::Status`
- `enTC_PipResolution_t` `DCM::DeviceControl::TC_PipSettings_t::enResolution`  
*Output resolution.*
- unsigned long `DCM::DeviceControl::TC_PipSettings_t::Bitrate`  
*150 - 400kbps, in bps.*
- unsigned long `DCM::DeviceControl::TC_PipSettings_t::GOP_Length`  
*Length of the GOP. 1 - 30 frames.*
- unsigned long `DCM::DeviceControl::TC_PipSettings_t::CPB_Delay`  
*Maximum CPB removal delay, in ms. 500 - 1500 ms, and between (service delay - 1306) and (service delay - 452).*
- `enTC_ClosedCaptionMode_t` `DCM::DeviceControl::TC_PipSettings_t::enClosedCaptionMode`  
*Closed caption transcoding mode.*
- unsigned long `DCM::DeviceControl::TC_PipSettings_t::PCR_Interval`  
*10 - 300 ms, in ms.*
- boolean `DCM::DeviceControl::TC_PipSettings_t::PCR_InPip`  
*Should the PCR be part of a PIP packet or should it use an empty packet (on the same PID).*
- `TrackingID_t` `DCM::DeviceControl::TC_Pip_t::TrackingId`  
*Must be equal to the tracking ID of a video decode (preferred) or the tracking ID of a video transcode (deprecated).*
- `TC_PipSettings_t` `DCM::DeviceControl::TC_Pip_t::Settings`
- unsigned long `DCM::DeviceControl::TC_AudioSettings_t::Bitrate`  
*8 - 128 kbps for HE-AAC, 8 - 576 kbps < for AAC-LC or 8 - 192 kbps for VBR. In bps.*
- boolean `DCM::DeviceControl::TC_AudioSettings_t::bAllowAC3`  
*Transcode AC-3 input. Requires an AC3 extension license.*
- `enTC_EncodingMode_t` `DCM::DeviceControl::TC_AudioSettings_t::enAudioEncodingMode`  
*Remark: This setting is ignored, the audio output is always CBR.*
- `enTC_TemporalNoiseShaping_t` `DCM::DeviceControl::TC_AudioSettings_t::enTemporalNoiseShaping`
- `enTC_SpectralBandReplication_t` `DCM::DeviceControl::TC_AudioSettings_t::enSpectralBandReplication`

*Cannot be activated if Perceptual Noise Substitution is enabled.*

- `enTC_PerceptualNoiseSubstitution_t` `DCM::DeviceControl::TC_AudioSettings_t::enPerceptualNoiseSubstitution`

*Cannot be activated if Spectral Band Replication is enabled.*

- `enTC_TransportPacketizationMode_t` `DCM::DeviceControl::TC_AudioSettings_t::enTransportPacketizationMode`
- `short` `DCM::DeviceControl::TC_AudioSettings_t::LevelControl`
- `enTC_AudioSampleRate_t` `DCM::DeviceControl::TC_AudioStatus_t::enSampleRate`
- `enTC_AudioMode_t` `DCM::DeviceControl::TC_AudioStatus_t::enMode`
- `unsigned long` `DCM::DeviceControl::TC_AudioStatus_t::AdjustedBitrate`

*The real output bitrate, after input mode and sample rate have been taken into account.*

- `TrackingID_t` `DCM::DeviceControl::TC_Audio_t::TrackingId`

*0 when creating a new entry*

- `TrackingCriterium_t` `DCM::DeviceControl::TC_Audio_t::TrackingCriterium`
- `TC_AudioSettings_t` `DCM::DeviceControl::TC_Audio_t::Settings`
- `TrackingID_t` `DCM::DeviceControl::TC_AudioInformation_t::TrackingId`
- `TC_AudioStatus_t` `DCM::DeviceControl::TC_AudioInformation_t::Status`
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_ServiceCfg_t::Service`
- `enTC_MaximumBitrateDescriptorMode_t` `DCM::DeviceControl::TC_ServiceCfg_t::enMaximumBitrateDescriptorMode`
- `unsigned long` `DCM::DeviceControl::TC_ServiceCfg_t::Delay`

*1000 - 2800 ms (Total delay), in ms. See `TC_VideoSettings_t::CPB_Delay` for additional restrictions.*

- `unsigned long` `DCM::DeviceControl::TC_ServiceCfg_t::PCR_Interval`

*10 - 300 ms, in ms.*

- `boolean` `DCM::DeviceControl::TC_ServiceCfg_t::PCR_InVideo`

*Should the PCR be part of a video packet or should it use an empty packet (on the same PID).*

- `boolean` `DCM::DeviceControl::TC_ServiceCfg_t::AdaptSI_Tables`

*Default true : will automatically adapt PMT, EIT and SDT tables where necessary.*

- `IPS_RefSvc_t` `DCM::DeviceControl::TC_VideoDecodeCfg_t::Service`
- `TC_VideoDecodeList_t` `DCM::DeviceControl::TC_VideoDecodeCfg_t::VideoDecodeList`
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_VideoEncodeCfg_t::Service`
- `TC_VideoEncodeList_t` `DCM::DeviceControl::TC_VideoEncodeCfg_t::VideoEncodeList`
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_VideoCfg_t::Service`
- `TC_VideoList_t` `DCM::DeviceControl::TC_VideoCfg_t::Video`
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_VideoServiceInformation_t::Service`
- `TC_VideoInformationList_t` `DCM::DeviceControl::TC_VideoServiceInformation_t::Video`
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_PipCfg_t::Service`
- `TC_PipList_t` `DCM::DeviceControl::TC_PipCfg_t::Pip`
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_AudioCfg_t::Service`
- `TC_AudioList_t` `DCM::DeviceControl::TC_AudioCfg_t::Audio`
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_AudioServiceInformation_t::Service`
- `TC_AudioInformationList_t` `DCM::DeviceControl::TC_AudioServiceInformation_t::Audio`
- `unsigned short` `DCM::DeviceControl::TC_Component_t::Pid`
- `TrackingID_t` `DCM::DeviceControl::TC_Component_t::TrackingId`

*0 if the component matches no tracking criteria.*

- `IPS_RefSvc_t` `DCM::DeviceControl::TC_ServiceComponents_t::Service`
- `TC_ComponentList_t` `DCM::DeviceControl::TC_ServiceComponents_t::VideoPids`

*The video pids which can be transcoded.*

- `TC_ComponentList_t` `DCM::DeviceControl::TC_ServiceComponents_t::AudioPids`



*The audio pids which can be transcoded.*

- TrackingID\_t [DCM::DeviceControl::TC\\_ES\\_CaptionInfo\\_t::TrackingId](#)  
*Identifies the elementary stream where the Caption Service Descriptor should be added to.*
- boolean [DCM::DeviceControl::TC\\_ES\\_CaptionInfo\\_t::PipService](#)  
*0 means for main service; 1 means for PIP service*
- enTC\_CaptionDescriptorMode\_t [DCM::DeviceControl::TC\\_ES\\_CaptionInfo\\_t::CaptionMode](#)
- TC\_CaptionInfoList\_t [DCM::DeviceControl::TC\\_ES\\_CaptionInfo\\_t::CaptionInfoList](#)  
*factory default: empty list. In "Add" mode, a non-empty list must be present.*
- IPS\_RefSvc\_t [DCM::DeviceControl::TC\\_Svc\\_CaptionInfo\\_t::Service](#)
- TC\_ES\_CaptionInfoList\_t [DCM::DeviceControl::TC\\_Svc\\_CaptionInfo\\_t::ES\\_CaptionInfoList](#)
- FontCfgID\_t [DCM::DeviceControl::FontCfg\\_t::FontCfgID](#)  
*unique font configuration identifier (must be 0 when adding a new font configuration)*
- string [DCM::DeviceControl::FontCfg\\_t::FontCfgName](#)  
*font configuration name, maximum 64 characters*
- unsigned long [DCM::DeviceControl::FontCfg\\_t::FontProperty](#)  
*Read only Bitmap.*
- LogoCfgID\_t [DCM::DeviceControl::LogoCfg\\_t::LogoCfgID](#)  
*unique logo configuration identifier (must be 0 when adding a new logo configuration)*
- string [DCM::DeviceControl::LogoCfg\\_t::LogoCfgName](#)  
*logo configuration name, maximum 64 characters*
- unsigned short [DCM::DeviceControl::LogoCfg\\_t::X\\_Position](#)  
*X position in pixels (range [0, 1920[), left is 0.*
- unsigned short [DCM::DeviceControl::LogoCfg\\_t::Y\\_Position](#)  
*Y position in pixels (range [0, 1080[), top is 0.*
- unsigned short [DCM::DeviceControl::LogoCfg\\_t::Opacity](#)  
*10 \* opacity in % and in steps of .5 % (e.g. Opacity = 105 means 10.5 %), < 100% opaque means not transparent at all.*
- boolean [DCM::DeviceControl::LogoCfg\\_t::DefaultShow](#)  
*True if the logo should be displayed by default.*
- unsigned short [DCM::DeviceControl::LogoCfg\\_t::FadeIn](#)  
*in frames, max 300 frames, 0 is instant display*
- unsigned short [DCM::DeviceControl::LogoCfg\\_t::FadeOut](#)  
*in frames, max 300 frames, 0 is instant removal*
- boolean [DCM::DeviceControl::LogoCfg\\_t::AnimatedLogo](#)  
*False: static logo, true: animated logo.*
- enLogoPlayoutMode\_t [DCM::DeviceControl::LogoCfg\\_t::enPlayoutMode](#)  
*Playout mode for animated logos.*
- unsigned short [DCM::DeviceControl::LogoCfg\\_t::LoopCount](#)  
*Number of times an animated logo should be displayed: loop count of 0 means animation is played continuously, loop count of 3 means animation is played three times.*
- boolean [DCM::DeviceControl::LogoCfg\\_t::RemoteLogo](#)  
*Is the logo locally or remotely stored.*
- string [DCM::DeviceControl::LogoCfg\\_t::UrlRemoteLogo](#)  
*URL to remote logo.*
- unsigned long [DCM::DeviceControl::LogoCfg\\_t::LogoProperty](#)  
*Read only Bitmap.*
- unsigned short [DCM::DeviceControl::MaximumLogoSize\\_t::MaxLogoWidth](#)

- unsigned short [DCM::DeviceControl::MaximumLogoSize\\_t::MaxLogoHeight](#)  
*Maximum logo width in pixels, 0 means unlimited.*
- LogoCfgID\_t [DCM::DeviceControl::LogoCfgFileNumber\\_t::LogoCfgID](#)
- LogoFileNumber\_t [DCM::DeviceControl::LogoCfgFileNumber\\_t::LogoFileNumber](#)
- octet [DCM::DeviceControl::Color\\_t::R](#)
- octet [DCM::DeviceControl::Color\\_t::G](#)
- octet [DCM::DeviceControl::Color\\_t::B](#)
- BannerCfgID\_t [DCM::DeviceControl::BannerCfg\\_t::BannerCfgID](#)  
*unique banner configuration identifier BannerCfgID 0 will be the default banner, it will always exist and is undeletable.*
- string [DCM::DeviceControl::BannerCfg\\_t::BannerCfgName](#)  
*Banner configuration name, maximum 64 characters.*
- Color\_t [DCM::DeviceControl::BannerCfg\\_t::BannerColor](#)  
*Only applicable for creating a solid colored banner.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_t::BannerOpacity](#)  
*10 \* opacity in % (e.g. OpacityX10 = 11 means an opacity of 1.1%), < 100% opaque means not transparent at all.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_t::BannerWidth](#)  
*In pixels.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_t::BannerHeight](#)  
*In pixels.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_t::BannerX\\_Position](#)  
*In pixels, upper left hand corner is (x,y) = (0,0).*
- unsigned short [DCM::DeviceControl::BannerCfg\\_t::BannerY\\_Position](#)  
*In pixels.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_t::BannerFadeIn](#)  
*in frames, max 300 frames, 0 is instant display*
- unsigned short [DCM::DeviceControl::BannerCfg\\_t::BannerFadeOut](#)  
*in frames, max 300 frames, 0 is instant removal*
- LogoCfgID\_List\_t [DCM::DeviceControl::BannerCfg\\_t::BannerLogoIDs](#)  
*Logos to display along with the banner.*
- FontCfgID\_t [DCM::DeviceControl::BannerCfg\\_t::TextFontID](#)  
*The font ID to be used.*
- Color\_t [DCM::DeviceControl::BannerCfg\\_t::TextColor](#)  
*Text color.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_t::TextOpacity](#)  
*10 \* opacity in % (e.g. OpacityX10 = 11 means an opacity of 1.1%), < 100% opaque means not transparent at all.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_t::TextHeight](#)  
*In pixels. Must be smaller or equal to BannerHeight.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_t::TextMax Width](#)  
*In pixels. Must be smaller or equal to BannerWidth.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_t::TextLoopCount](#)  
*Number of times an banner should be displayed: loop count of 0 means animation is played continously, loop count of 3 means animation is played three times.*
- long [DCM::DeviceControl::BannerCfg\\_t::TextSpeed](#)  
*Scrolling speed of the text in pixels/frame. Positive values scroll < from right to left, negative values from left to right.*

- unsigned long [DCM::DeviceControl::BannerCfg\\_t::BannerProperty](#)  
*Read only Bitmap.*
- BannerCfgID\_t [DCM::DeviceControl::BannerCfg\\_V2\\_t::BannerCfgID](#)  
*unique banner configuration identifier BannerCfgID 0 will be the default banner, it will always exist and is undeletable.*
- string [DCM::DeviceControl::BannerCfg\\_V2\\_t::BannerCfgName](#)  
*Banner configuration name, maximum 64 characters.*
- Color\_t [DCM::DeviceControl::BannerCfg\\_V2\\_t::BannerColor](#)  
*Only applicable for creating a solid colored banner.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_V2\\_t::BannerOpacity](#)  
*10 \* opacity in % (e.g. OpacityX10 = 11 means an opacity of 1.1%), < 100% opaque means not transparent at all.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_V2\\_t::BannerWidth](#)  
*In pixels.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_V2\\_t::BannerHeight](#)  
*In pixels.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_V2\\_t::BannerX\\_Position](#)  
*In pixels, upper left hand corner is (x,y) = (0,0).*
- unsigned short [DCM::DeviceControl::BannerCfg\\_V2\\_t::BannerY\\_Position](#)  
*In pixels.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_V2\\_t::BannerFadeIn](#)  
*in frames, max 300 frames, 0 is instant display*
- unsigned short [DCM::DeviceControl::BannerCfg\\_V2\\_t::BannerFadeOut](#)  
*in frames, max 300 frames, 0 is instant removal*
- LogoCfgID\_List\_t [DCM::DeviceControl::BannerCfg\\_V2\\_t::BannerLogoIDs](#)  
*Logos to display along with the banner.*
- FontCfgID\_t [DCM::DeviceControl::BannerCfg\\_V2\\_t::TextFontID](#)  
*The font ID to be used.*
- Color\_t [DCM::DeviceControl::BannerCfg\\_V2\\_t::TextColor](#)  
*Text color.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_V2\\_t::TextOpacity](#)  
*10 \* opacity in % (e.g. OpacityX10 = 11 means an opacity of 1.1%), < 100% opaque means not transparent at all.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_V2\\_t::TextHeight](#)  
*In pixels. Must be smaller or equal to BannerHeight.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_V2\\_t::TextMaxWidth](#)  
*In pixels. Must be smaller or equal to BannerWidth.*
- unsigned short [DCM::DeviceControl::BannerCfg\\_V2\\_t::TextLoopCount](#)  
*Number of times an banner should be displayed: loop count of 0 means animation is played continously, loop count of 3 means animation is played three times.*
- long [DCM::DeviceControl::BannerCfg\\_V2\\_t::TextSpeed](#)  
*Scrolling speed of the text in pixels/frame. Positive values scroll < from right to left, negative values from left to right.*
- unsigned long [DCM::DeviceControl::BannerCfg\\_V2\\_t::BannerProperty](#)  
*Read only Bitmap.*
- string [DCM::DeviceControl::BannerCfg\\_V2\\_t::DefaultBannerText](#)  
*Default banner text, encoded in UTF-8, If the text is empty (contains no characters) and the default banner text must be used, the banner is not displayed.*

- `enBannerStopType_t` `DCM::DeviceControl::BannerCfg_V2_t::enBannerStopType`  
*Behaviour when the banner is stopped. From version release 9.0.*
- `BannerCfgID_t` `DCM::DeviceControl::TC_Banner_t::BannerCfgID`
- `string` `DCM::DeviceControl::TC_Banner_t::BannerText`  
*Encoded in ASCII For an empty text (no characters), the banner text will be used as defined in the corresponding banner configuration.*
- `unsigned long` `DCM::DeviceControl::TC_Banner_t::BannerTimeout`  
*Time (in seconds) the banner may remain on screen. (0 for no timeout) < The banner is removed if the loop count or timeout is reached, whichever is first.*
- `BannerCfgID_t` `DCM::DeviceControl::TC_Banner_V2_t::BannerCfgID`
- `string` `DCM::DeviceControl::TC_Banner_V2_t::BannerText`  
*Encoded according to BannerTextEncoding For an empty text (no characters), the banner text will be used as defined in the corresponding banner configuration.*
- `unsigned long` `DCM::DeviceControl::TC_Banner_V2_t::BannerTimeout`  
*Time (in seconds) the banner may remain on screen. (0 for no timeout) < The banner is removed if the loop count or timeout is reached, whichever is first.*
- `enBannerTextEncoding_t` `DCM::DeviceControl::TC_Banner_V2_t::BannerTextEncoding`  
*Encoding of the BannerText.*
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_BannerSettings_t::RefSvc`
- `enTC_AllowedBanner_t` `DCM::DeviceControl::TC_BannerSettings_t::enAllowedBanner`
- `enTC_BannerPriority_t` `DCM::DeviceControl::TC_BannerSettings_t::enBannerPriority`
- `enTC_EAS_Control_t` `DCM::DeviceControl::TC_BannerSettings_t::enEAS_Control`  
*Only affects banners triggered through StartEAS()*
- `BannerCfgID_t` `DCM::DeviceControl::TC_BannerStatus_t::BannerCfgID`  
*The configuration of the active banner.*
- `boolean` `DCM::DeviceControl::TC_BannerStatus_t::bIsEAS_Banner`  
*True if the banner is an EAS alert banner.*
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_ServiceBannerStatus_t::RefSvc`
- `TC_BannerStatusList_t` `DCM::DeviceControl::TC_ServiceBannerStatus_t::Banners`  
*The list of active banners (always zero or one elements)*
- `TC_ServiceLogoID_t` `DCM::DeviceControl::TC_LogoSetting_t::ServiceLogoID`
- `LogoCfg_t` `DCM::DeviceControl::TC_LogoSetting_t::LogoCfg`  
*logo configuration*
- `boolean` `DCM::DeviceControl::TC_LogoSetting_t::ShowLogoStatus`  
*Is the logo currently show in the video?*
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_Logo_t::Service`
- `TC_LogoSettingList_t` `DCM::DeviceControl::TC_Logo_t::Logo`
- `TC_ServiceLogoID_t` `DCM::DeviceControl::TC_LogoDisplay_t::ServiceLogoID`
- `boolean` `DCM::DeviceControl::TC_LogoDisplay_t::bDisplay`  
*True if the logo should be inserted in the video.*
- `boolean` `DCM::DeviceControl::TC_LogoDisplay_t::bFade`  
*True if the fade in/out time should be respected. False for instant changes.*
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_ServiceLogoDisplay_t::Service`
- `TC_LogoDisplayList_t` `DCM::DeviceControl::TC_ServiceLogoDisplay_t::LogoDisplay`
- `IPS_RefSvc_t` `DCM::DeviceControl::TC_LogoCfg_t::Service`
- `TC_ServiceLogoID_t` `DCM::DeviceControl::TC_LogoCfg_t::ServiceLogoID`
- `LogoCfg_t` `DCM::DeviceControl::TC_LogoCfg_t::LogoCfg`
- `enTC_LogoCfgSource_t` `DCM::DeviceControl::TC_LogoCfg_t::enLogoCfgSource`

- IPS\_RefSvc\_t [DCM::DeviceControl::TC\\_LogoKeyerID\\_t::Service](#)  
*read-only*
- TC\_ServiceLogoID\_t [DCM::DeviceControl::TC\\_LogoKeyerID\\_t::ServiceLogoID](#)  
*read-only*
- TC\_KeyerID\_t [DCM::DeviceControl::TC\\_LogoKeyerID\\_t::KeyerID](#)
- enTC\_LogoCfgSource\_t [DCM::DeviceControl::TC\\_LogoKeyerID\\_t::enLogoCfgSource](#)  
*read-only*
- IPS\_RefSvc\_t [DCM::DeviceControl::TC\\_ServiceLogoCfgID\\_t::Service](#)
- TC\_ServiceLogoID\_t [DCM::DeviceControl::TC\\_ServiceLogoCfgID\\_t::ServiceLogoID](#)
- LogoCfgID\_t [DCM::DeviceControl::TC\\_ServiceLogoCfgID\\_t::LogoCfgID](#)
- enTR\_VideoFormat [DCM::DeviceControl::TR\\_ResourceCountingSettings\\_t::eTR\\_VideoFormat](#)
- unsigned long [DCM::DeviceControl::TR\\_ResourceCountingSettings\\_t::ulMaxSD\\_Bitrate](#)  
*in bps*
- unsigned long [DCM::DeviceControl::TR\\_ResourceCountingSettings\\_t::ulMaxHD\\_Bitrate](#)  
*in bps*
- unsigned long [DCM::DeviceControl::TR\\_ResourceCountingSettings\\_t::ulMaxAudioBitrate](#)  
*in bps*
- unsigned short [DCM::DeviceControl::TR\\_ResourceCountingSettings\\_t::usMaxNbrOfAudios](#)
- unsigned short [DCM::DeviceControl::TR\\_ResourceCountingLoads\\_t::usCurrentLoad](#)  
*in 0.01%*
- unsigned short [DCM::DeviceControl::TR\\_ResourceCountingLoads\\_t::usMaxReachedLoad](#)  
*in 0.01%*
- unsigned short [DCM::DeviceControl::TR\\_ResourceCountingLoads\\_t::usMaxLoadSimultaneousSplices](#)  
*in 0.01%*
- unsigned long [DCM::DeviceControl::TR\\_GroupID\\_t::ID](#)  
*Group ID in the range [2, 501], group ID 1 may not be used.*
- long [DCM::DeviceControl::TR\\_GroupID\\_t::Status](#)  
*Status field (for future use).*
- eTR\_CoarseDelay [DCM::DeviceControl::TR\\_DelayMode\\_t::CoarseDelay](#)  
*Coarse setting of the delay of the transrater board. Based on this value, the other values of the structure has to be interpreted.*
- eTR\_FrameRateDelay [DCM::DeviceControl::TR\\_DelayMode\\_t::FrameRateDelay](#)  
*One of the possible predefined frame rate delay settings.*
- eTR\_BoardTypeDelay [DCM::DeviceControl::TR\\_DelayMode\\_t::BoardTypeDelay](#)  
*One of the possible predefined board delay settings of the input stream.*
- eTR\_FineDelay [DCM::DeviceControl::TR\\_DelayMode\\_t::FineDelay](#)  
*One of the possible predefined finer delay settings.*
- unsigned long [DCM::DeviceControl::TR\\_DelayMode\\_t::TotalDelay](#)  
*Customized setting of the total delay of the transrater board.*
- unsigned long [DCM::DeviceControl::TR\\_DelayMode\\_t::OutputDelay](#)  
*Customized setting of the delay reserved for the output buffer embedded in the transrater board (modifying this setting can result in worst video quality)*
- eTR\_CoarseDelay\_V2 [DCM::DeviceControl::TR\\_DelayMode\\_V2\\_t::CoarseDelay](#)  
*Coarse setting of the delay of the transrater board. Based on this value, the other values of the structure has to be interpreted.*
- eTR\_FrameRateDelay [DCM::DeviceControl::TR\\_DelayMode\\_V2\\_t::FrameRateDelay](#)  
*One of the possible predefined frame rate delay settings.*

- `eTR_BoardTypeDelay` `DCM::DeviceControl::TR_DelayMode_V2_t::BoardTypeDelay`  
*One of the possible predefined board delay settings of the input stream.*
- `eTR_FineDelay` `DCM::DeviceControl::TR_DelayMode_V2_t::FineDelay`  
*One of the possible predefined finer delay settings.*
- unsigned long `DCM::DeviceControl::TR_DelayMode_V2_t::TotalDelay`  
*Customized setting of the total delay of the transrater board.*
- unsigned long `DCM::DeviceControl::TR_DelayMode_V2_t::OutputDelay`  
*Customized setting of the delay reserved for the output buffer embedded in the transrater board (modifying this setting can result in worst video quality)*
- unsigned long `DCM::DeviceControl::TR_DelayMode_V2_t::TsDelay`  
*Customized setting of the TS delay ( $CoarseDelay = eTR\_TS\_Delay$ ) can be set between 5ms and 100ms.*
- unsigned long `DCM::DeviceControl::TR_BitrateLimits_t::MinBitrate`  
*Minimum bitrate in bps.*
- unsigned long `DCM::DeviceControl::TR_BitrateLimits_t::MaxBitrate`  
*Maximum bitrate in bps.*
- `TR_GroupID_t` `DCM::DeviceControl::TR_GroupSettings_t::GroupID`  
*The group reference, it should be a valid reference. It cannot be changed anymore after creation.*
- string `DCM::DeviceControl::TR_GroupSettings_t::GroupName`  
*The group name, the same name may be used multiple times.*
- `eTR_GroupType` `DCM::DeviceControl::TR_GroupSettings_t::GroupType`  
*The type of group. It cannot be changed anymore after creation.*
- `IPS_RefTS_t` `DCM::DeviceControl::TR_GroupSettings_t::TSRef`  
*The output transport stream this group contains (parts of). It should be set to 0xFFFFFFFF in case of a MultiTS group.*
- unsigned long `DCM::DeviceControl::TR_GroupSettings_t::BitRate`  
*The maximum bitrate that should be applied to the statmux group. This should be lower or equal to the output transport stream bandwidth in case of SingleTS\_xxx group types.*
- `IPS_RefTS_t` `DCM::DeviceControl::TR_TSSettings_t::TSRef`  
*The output transport stream reference.*
- long `DCM::DeviceControl::TR_TSSettings_t::Status`  
*Status field (for future use).*
- `TR_GroupID_t` `DCM::DeviceControl::TR_TSAdd_t::GroupID`  
*The group reference. The group should already exist.*
- `TR_TSSettings_List_t` `DCM::DeviceControl::TR_TSAdd_t::TSList`  
*A sequence of output transport streams.*
- `IPS_Service_t` `DCM::DeviceControl::TR_Service_t::Service`  
*The output service reference.*
- unsigned long `DCM::DeviceControl::TR_Service_t::PCR_Pid`  
*The PCR PID in the service.*
- `TR_Service_t` `DCM::DeviceControl::TR_ServiceSettings_t::Service`  
*The service reference.*
- `eTR_ServiceMode` `DCM::DeviceControl::TR_ServiceSettings_t::Mode`  
*The transrater mode for the service.*
- octet `DCM::DeviceControl::TR_ServiceSettings_t::Priority`  
*The transrater priority.*
- `TR_BitrateLimits_t` `DCM::DeviceControl::TR_ServiceSettings_t::Bitrates`  
*The bitrates that apply to the service. Only relevant if the service mode is not passthrough.*

- boolean `DCM::DeviceControl::TR_ServiceSettings_t::BitratesOnVideo`  
*Read only flag that indicates if the bitrate limits apply on the whole service or only on the video part.*
- long `DCM::DeviceControl::TR_ServiceSettings_t::Status`  
*Status field. For future use.*
- `TR_GroupID_t` `DCM::DeviceControl::TR_GroupServiceSettings_t::GroupID`
- `TR_ServiceSettings_List_t` `DCM::DeviceControl::TR_GroupServiceSettings_t::ServiceSettingsList`
- `TR_Service_t` `DCM::DeviceControl::TR_ServiceSettings_V2_t::Service`  
*The service reference.*
- `eTR_ServiceMode` `DCM::DeviceControl::TR_ServiceSettings_V2_t::Mode`  
*The transrater mode for the service.*
- octet `DCM::DeviceControl::TR_ServiceSettings_V2_t::Priority`  
*The transrater priority.*
- `TR_BitrateLimits_t` `DCM::DeviceControl::TR_ServiceSettings_V2_t::Bitrates`  
*The bitrates that apply to the service. Only relevant if the service mode is not passthrough.*
- boolean `DCM::DeviceControl::TR_ServiceSettings_V2_t::BitratesOnVideo`  
*Read only flag that indicates if the bitrate limits apply on the whole service or only on the video part.*
- long `DCM::DeviceControl::TR_ServiceSettings_V2_t::Status`  
*Status field. For future use.*
- `eTRB_CC_UpdateMode` `DCM::DeviceControl::TR_ServiceSettings_V2_t::eUpdateMode`  
*Closed caption update mode.*
- `TR_GroupID_t` `DCM::DeviceControl::TR_GroupServiceSettings_V2_t::GroupID`
- `TR_ServiceSettings_V2_List_t` `DCM::DeviceControl::TR_GroupServiceSettings_V2_t::ServiceSettingsList`
- `RMX_GroupID_t` `DCM::DeviceControl::RMX_GroupSettings_t::GroupID`  
*ID of the group: read-only, ignored during creation.*
- string `DCM::DeviceControl::RMX_GroupSettings_t::Name`  
*Name: writable, the same name may be used multiple times, it exists only for user ref. Not used internally by the DCM. Name length limited to 32 characters.*
- `eRMX_GroupType_t` `DCM::DeviceControl::RMX_GroupSettings_t::Type`  
*Type of group: write-once on creation, read-only after creation.*
- `IPS_RefTS_t` `DCM::DeviceControl::RMX_GroupSettings_t::Location`  
*Location of group (depends on Type: can be TS or Port only): write-once on creation, read-only after creation. REQUIREMENT: Should be a port for group type MultiTS and be a TS for the other group types.*
- unsigned long `DCM::DeviceControl::RMX_GroupSettings_t::EndToEndDelay`  
*The actual end-to-end delay that the remote statmux service using realignment muxing will have. This is the maximal network delay that can be compensated for between any of the encoders of the realignment group and the remux device across the network. In milliseconds. Range: from 150ms to 1000ms.*
- `IPS_Service_t` `DCM::DeviceControl::RMX_GroupSvc_t::SvcRef`  
*The reference of the service.*
- `eRMX_ServiceStatus_t` `DCM::DeviceControl::RMX_GroupSvc_t::SvcStatus`  
*The status of the RMX'ed service. < Read-only. Filled in when service is retrieved.*
- long `DCM::DeviceControl::RMX_GroupSvc_t::SvcAppliedDelay`  
*The applied delay of the RMX'ed service in millisecs. Read-only. Filled in when service is retrieved. To be ignored if service has status Blocked\_NoMarkers. Takes on a negative value if the service has status Blocked\_NegativeDelay, and a non-negative one if service has status Passed\_Delayed. The magnitude of negative Applied Delay indicates how much the end-to-end delay should be increased.*
- `RMX_GroupID_t` `DCM::DeviceControl::RMX_GroupSvcs_t::GroupID`  
*The group reference. The group should already exist.*



- `RMX_GroupSvc_List_t DCM::DeviceControl::RMX_GroupSvcs_t::SvcList`  
*sequence of services*
- unsigned long `DCM::DeviceControl::SMX_MFP_GroupSettings_t::ID`  
*ID of the group: read-only, ignored during creation. Only used in Set/Get/Delete commands.*
- string `DCM::DeviceControl::SMX_MFP_GroupSettings_t::Name`  
*Name: writable, the same name may be used multiple times, it exists only for user ref. not used internally by the DCM. Name length limited to 32 characters.*
- `eSMX_MFP_GroupType_t DCM::DeviceControl::SMX_MFP_GroupSettings_t::Type`  
*Type of group: write-once on creation, read only after creation.*
- `IPS_RefTS_t DCM::DeviceControl::SMX_MFP_GroupSettings_t::Location`  
*Location of group (depends on Type: can be TS or Port only): write-once on creation, read only in the other cases. REQUIREMENT: Should be a port for group type MultiTS and be a TS for the other group types.*
- unsigned long `DCM::DeviceControl::SMX_MFP_GroupSettings_t::Bitrate`  
*The maximum bitrate that should be applied to the statmux group. This should be lower or equal to the output transport stream bandwidth in case of SingleTS\_xxx group types. In bits per second. Range: from 1Mbps to 950Mbps. REQUIREMENT: should be less than the bitrate associated with the location.*
- `IPS_RefTS_t DCM::DeviceControl::SMX_MFP_TsSettings_t::TsRef`  
*Ref of the TS.*
- unsigned long `DCM::DeviceControl::SMX_MFP_TsSettings_t::ReservedBitrate`  
*reserved bitrate for this TS (for instance reserved for TS PIDs) In bits per second. Range: from 0 to 1 Gbps.*
- unsigned long `DCM::DeviceControl::SMX_MFP_Group_TSSettings_t::GroupID`  
*The group reference. The group should already exist.*
- `SMX_MFP_TsSettings_List_t DCM::DeviceControl::SMX_MFP_Group_TSSettings_t::TSList`  
*A sequence of output transport stream settings.*
- unsigned long `DCM::DeviceControl::SMX_MFP_Group_TSs_t::GroupID`  
*The group reference. The group should already exist.*
- `IPS_RefTS_List_t DCM::DeviceControl::SMX_MFP_Group_TSs_t::TSList`  
*A sequence of output transport streams.*
- `IPS_Service_t DCM::DeviceControl::SMX_MFP_SvcSettings_t::SvcRef`  
*Ref of the service.*
- `eSMX_MFP_SvcState DCM::DeviceControl::SMX_MFP_SvcSettings_t::State`  
*Read-Only: the encoder rate control state.*
- `eSMX_MFP_SvcMode DCM::DeviceControl::SMX_MFP_SvcSettings_t::Mode`  
*to be statmuxed or used in rate limited mode. Rate Limited mode can only be set on a SPTS service in a MultiTS group. DEFAULT when service is added into a group: RateLimit mode for a MulitTS group. Statmux mode for all other group types.*
- unsigned long `DCM::DeviceControl::SMX_MFP_SvcSettings_t::MaxBitrate`  
*maximum allowed bitrate for this service In bits per second. Range: 3Mbps to 30Mbps REQUIREMENT: MaxBitrate has to be larger or equal MinBitrate REMARK: in RateLimit mode, the MaxBitrate indicates the rate limit. DEFAULT when service is added into a group: The Statmux Group bitrate or 12500000, whatever is the smallest.*
- unsigned long `DCM::DeviceControl::SMX_MFP_SvcSettings_t::MinBitrate`  
*minimum allowed bitrate for this service In bits per second. Range: 500Kbps to 8Mbps REQUIREMENT: MinBitrate has to be lower or equal MaxBitrate Ignored in RateLimit mode DEFAULT when service is added into a group: 1000000*
- long `DCM::DeviceControl::SMX_MFP_SvcSettings_t::Priority`  
*relative priority (quality) in the statmux group. Range: from 0 to 6. < DEFAULT when service is added into a group: 3*
- unsigned long `DCM::DeviceControl::SMX_MFP_SvcSettings_t::ReservedBitrate`



- reserved for future use: has to be filled in with 0.*
- IPS\_Service\_t [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_V2\\_t::SvcRef](#)  
*Ref of the service.*
- eSMX\_MFP\_SvcState [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_V2\\_t::State](#)  
*Read-Only: the encoder rate control state.*
- eSMX\_MFP\_SvcMode [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_V2\\_t::Mode](#)  
*see [SMX\\_MFP\\_SvcSettings\\_t](#)*
- eSMX\_MFP\_PassThroughMode [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_V2\\_t::PassThroughMode](#)  
*How pass-through services should be handled.*
- unsigned long [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_V2\\_t::MaxBitrate](#)  
*see [SMX\\_MFP\\_SvcSettings\\_t](#)*
- unsigned long [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_V2\\_t::MinBitrate](#)  
*see [SMX\\_MFP\\_SvcSettings\\_t](#)*
- long [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_V2\\_t::Priority](#)  
*see [SMX\\_MFP\\_SvcSettings\\_t](#)*
- unsigned long [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_V2\\_t::ReservedBitrate](#)  
*reserved for future use: has to be filled in with 0.*
- unsigned long [DCM::DeviceControl::SMX\\_MFP\\_Group\\_SvcSettings\\_t::GroupID](#)  
*The group reference. The group should already exist.*
- SMX\_MFP\_SvcSettings\_List\_t [DCM::DeviceControl::SMX\\_MFP\\_Group\\_SvcSettings\\_t::SvcList](#)  
*sequence of services with their settings*
- unsigned long [DCM::DeviceControl::SMX\\_MFP\\_Group\\_SvcSettings\\_V2\\_t::GroupID](#)  
*The group reference. The group should already exist.*
- SMX\_MFP\_SvcSettings\_V2\_List\_t [DCM::DeviceControl::SMX\\_MFP\\_Group\\_SvcSettings\\_V2\\_t::SvcList](#)  
*sequence of services with their settings*
- unsigned long [DCM::DeviceControl::SMX\\_MFP\\_Group\\_Svc\\_t::GroupID](#)  
*The group reference. The group should already exist.*
- IPS\_Service\_List\_t [DCM::DeviceControl::SMX\\_MFP\\_Group\\_Svc\\_t::SvcList](#)  
*sequence of services*
- PID\_List\_t [DCM::DeviceControl::IPS\\_OutPID\\_Sync\\_t::OutputPIDs](#)  
*The pids to be synchronized.*
- unsigned long [DCM::DeviceControl::IPS\\_OutPID\\_Sync\\_t::Delay](#)  
*The time (in ms) the PIDs should be delayed.*
- IPS\_Service\_t [DCM::DeviceControl::IPS\\_OutServiceSync\\_t::OutService](#)
- IPS\_OutPID\_SyncList\_t [DCM::DeviceControl::IPS\\_OutServiceSync\\_t::PID\\_SyncList](#)
- PID\_List\_t [DCM::DeviceControl::IPS\\_OutPID\\_Sync\\_V2\\_t::OutputPIDs](#)  
*The pids to be synchronized.*
- long [DCM::DeviceControl::IPS\\_OutPID\\_Sync\\_V2\\_t::Delay](#)  
*The time (in ms) the PIDs should be delayed.*
- IPS\_Service\_t [DCM::DeviceControl::IPS\\_OutServiceSync\\_V2\\_t::OutService](#)
- IPS\_OutPID\_SyncList\_V2\_t [DCM::DeviceControl::IPS\\_OutServiceSync\\_V2\\_t::PID\\_SyncList](#)
- IPS\_RefSvc\_t [DCM::DeviceControl::SlateService\\_t::RefSvc](#)
- ClipID\_t [DCM::DeviceControl::SlateService\\_t::ClipID](#)
- unsigned short [DCM::DeviceControl::TR\\_AudioLevel\\_t::Pid](#)  
*The PID value (0..8190)*

- long [DCM::DeviceControl::TR\\_AudioLevel\\_t::Level](#)  
*Audio level change, in db. Between -31 and +31 < Positive values indicate amplification, negative ones attenuation.*
- IPS\_RefSvc\_t [DCM::DeviceControl::TR\\_ServiceAudioLevel\\_t::RefSvc](#)
- TR\_AudioLevelList\_t [DCM::DeviceControl::TR\\_ServiceAudioLevel\\_t::AudioLevelList](#)
- IPS\_RefTS\_t [DCM::DeviceControl::TR\\_TsDelay\\_t::TsRef](#)  
*The TS.*
- boolean [DCM::DeviceControl::TR\\_TsDelay\\_t::DelayTs](#)  
*true = delay the TS / false = don't delay TS*
- string [DCM::DeviceControl::DPI\\_ChannelName\\_t::ChannelName](#)  
*max 32 characters, must be 0 terminated*
- eChannelLicenseStatus [DCM::DeviceControl::DPI\\_ShortChannelStatus\\_t::License](#)
- eChannelViewingStatus [DCM::DeviceControl::DPI\\_ShortChannelStatus\\_t::Viewing](#)
- unsigned long [DCM::DeviceControl::DPI\\_ShortChannelStatus\\_t::NextSplice](#)
- unsigned long [DCM::DeviceControl::DPI\\_ShortChannelStatus\\_t::LastError](#)
- DPI\_ChannelName\_t [DCM::DeviceControl::DPI\\_ChannelSettings\\_t::OutputSpliceName](#)
- eDPI\_Mode [DCM::DeviceControl::DPI\\_ChannelSettings\\_t::Mode](#)
- IPS\_RefTS\_t [DCM::DeviceControl::DPI\\_ChannelSettings\\_t::PrimaryTs](#)
- unsigned long [DCM::DeviceControl::DPI\\_ChannelSettings\\_t::PrimaryChannel](#)  
*SID.*
- IPS\_RefTS\_t [DCM::DeviceControl::DPI\\_ChannelSettings\\_t::InsertionTs](#)
- unsigned long [DCM::DeviceControl::DPI\\_ChannelSettings\\_t::InsertionChannel](#)  
*SID.*
- DPI\_ChannelName\_t [DCM::DeviceControl::DPI\\_ChannelSettings2\\_t::OutputSpliceName](#)
- eDPI\_Mode [DCM::DeviceControl::DPI\\_ChannelSettings2\\_t::Mode](#)
- IPS\_RefTS\_t [DCM::DeviceControl::DPI\\_ChannelSettings2\\_t::PrimaryTs](#)
- unsigned long [DCM::DeviceControl::DPI\\_ChannelSettings2\\_t::PrimaryChannel](#)  
*SID.*
- IPS\_RefTS\_t [DCM::DeviceControl::DPI\\_ChannelSettings2\\_t::InsertionTs](#)
- unsigned long [DCM::DeviceControl::DPI\\_ChannelSettings2\\_t::InsertionChannel](#)  
*SID.*
- DPI\_ShortChannelStatus\_t [DCM::DeviceControl::DPI\\_ChannelSettings2\\_t::Status](#)  
*The status information shown in the GUI on the overview page.*
- DPI\_ChannelName\_t [DCM::DeviceControl::DPI\\_ChannelSettings3\\_t::OutputSpliceName](#)
- IPS\_RefTS\_t [DCM::DeviceControl::DPI\\_ChannelSettings3\\_t::PrimaryTs](#)
- unsigned long [DCM::DeviceControl::DPI\\_ChannelSettings3\\_t::PrimaryChannel](#)  
*SID.*
- IPS\_RefTS\_t [DCM::DeviceControl::DPI\\_ChannelSettings3\\_t::InsertionTs](#)
- unsigned long [DCM::DeviceControl::DPI\\_ChannelSettings3\\_t::InsertionChannel](#)  
*SID.*
- DPI\_ShortChannelStatus\_t [DCM::DeviceControl::DPI\\_ChannelSettings3\\_t::Status](#)  
*The status information shown in the GUI on the overview page.*
- DPI\_ModeBitmap\_t [DCM::DeviceControl::DPI\\_ChannelSettings3\\_t::Modes](#)  
*Modes bitmap allowing combined DPI modes.*
- unsigned long [DCM::DeviceControl::DPI\\_ChannelSettings3\\_t::ToInsertGpiNr](#)  
*Gpi pin used to switch to insertion.*
- unsigned long [DCM::DeviceControl::DPI\\_ChannelSettings3\\_t::ToMainGpiNr](#)  
*Gpi pin used to switch to main.*

- unsigned long `DCM::DeviceControl::DPI_ChannelSettings3_t::DpiGpiNr`  
*Gpi pin used for both, to insertion and to main.*
- unsigned long `DCM::DeviceControl::DPI_ChannelSettings3_t::SpliceDelay`  
*Splice delay in msec for both, to insertion and to main (0 means asap, max = 3600000 msec)*
- `IPS_RefTS_t DCM::DeviceControl::DPI_ChannelStatus_t::PrimaryTs`
- unsigned long `DCM::DeviceControl::DPI_ChannelStatus_t::PrimaryChannel`  
*SID.*
- `DPI_ShortChannelStatus_t DCM::DeviceControl::DPI_ChannelStatus_t::shortStatus`
- sequence< string > `DCM::DeviceControl::DPI_ChannelStatus_t::Servers`  
*Each string contains an IP address plus insertion channel information.*
- unsigned long `DCM::DeviceControl::DPI_Time_t::sec`
- unsigned long `DCM::DeviceControl::DPI_Time_t::usec`
- `DPI_ChannelName_t DCM::DeviceControl::DPI_CueRequest_t::OutputSpliceName`
- `DPI_Time_t DCM::DeviceControl::DPI_CueRequest_t::SpliceTime`
- unsigned short `DCM::DeviceControl::DPI_SpliceRequestTime_t::SpliceRequestScheduleTime`  
*in seconds*
- unsigned short `DCM::DeviceControl::DPI_SpliceRequestTime_t::SpliceRequestWarningTime`  
*in seconds*
- `DPI_ChannelName_t DCM::DeviceControl::DPI_SpliceRequest_t::OutputSpliceName`  
*Identifies the spliceable output channel.*
- boolean `DCM::DeviceControl::DPI_SpliceRequest_t::SpliceIn`  
*SpliceIn == true/false means switch to ad/main.*
- `DPI_Time_t DCM::DeviceControl::DPI_SpliceRequest_t::SpliceTime`  
*SpliceTime == 0 means ASAP.*
- unsigned long `DCM::DeviceControl::DPI_SpliceRequest_t::Duration`  
*Duration == 0 means FOREVER or until aborted.*
- unsigned short `DCM::DeviceControl::DPI_PidCouple_t::MainPid`  
*Main Input PID value.*
- unsigned short `DCM::DeviceControl::DPI_PidCouple_t::AdPid`  
*Ad Input PID value - INVALID\_PID\_VALUE if rule == PassMain.*
- `eSpliceMatchRule DCM::DeviceControl::DPI_PidCouple_t::MatchingRule`  
*Matching rule.*
- `DPI_ChannelName_t DCM::DeviceControl::DPI_PmtSpliceModeSetting_t::OutputSpliceName`
- `ePmtSpliceMode DCM::DeviceControl::DPI_PmtSpliceModeSetting_t::PmtSpliceMode`
- `eETV_PrimaryChannel_Mode_t DCM::DeviceControl::ETV_Primary_Settings_t::ETV_Primary_Mode`
- `IPS_RefSvc_t DCM::DeviceControl::ETV_Primary_Settings_t::ETV_OtherSvc`  
*Only applicable if primary mode is eUseOtherServiceETV\_Pids.*
- unsigned short `DCM::DeviceControl::ETV_Primary_Settings_t::EISS_Pid`  
*Only applicable if primary mode is eUseDummyETV\_Pids.*
- unsigned short `DCM::DeviceControl::ETV_Primary_Settings_t::EBIF_Pid`  
*Only applicable if primary mode is eUseDummyETV\_Pids.*
- `eETV_InsertionChannel_Mode_t DCM::DeviceControl::ETV_Insertion_Settings_t::ETV_Insertion_Mode`
- `IPS_RefSvc_t DCM::DeviceControl::ETV_Insertion_Settings_t::ETV_OtherSvc`  
*Only applicable if primary mode is eUseOtherServiceETV\_Pids.*
- `IPS_RefSvc_t DCM::DeviceControl::ETV_ManipulationSettings_t::OutputSvc`

*Reference to the output service.*

- ETV\_Primary\_Settings\_t [DCM::DeviceControl::ETV\\_ManipulationSettings\\_t::ETV\\_Primary\\_Settings](#)
- ETV\_Insertion\_Settings\_t [DCM::DeviceControl::ETV\\_ManipulationSettings\\_t::ETV\\_Insertion\\_Settings](#)
- eETV\_PrimaryChannel\_Mode\_V2\_t [DCM::DeviceControl::ETV\\_Primary\\_Settings\\_V2\\_t::ETV\\_Primary\\_Mode](#)
- IPS\_RefSvc\_t [DCM::DeviceControl::ETV\\_Primary\\_Settings\\_V2\\_t::ETV\\_OtherSvc](#)  
*Only applicable if primary mode is eMainSvc\_V2\_UseOtherServiceETV\_Pids or eMainSvc\_V2\_MergeEISS\_Pids.*
- unsigned short [DCM::DeviceControl::ETV\\_Primary\\_Settings\\_V2\\_t::EISS\\_Pid](#)  
*Only applicable if primary mode is eUseDummyETV\_Pids.*
- unsigned short [DCM::DeviceControl::ETV\\_Primary\\_Settings\\_V2\\_t::EBIF\\_Pid](#)  
*Only applicable if primary mode is eUseDummyETV\_Pids.*
- eETV\_InsertionChannel\_Mode\_V2\_t [DCM::DeviceControl::ETV\\_Insertion\\_Settings\\_V2\\_t::ETV\\_Insertion\\_Mode](#)
- IPS\_RefSvc\_t [DCM::DeviceControl::ETV\\_Insertion\\_Settings\\_V2\\_t::ETV\\_OtherSvc](#)  
*Only applicable if primary mode is eAdSvc\_V2\_UseOtherServiceETV\_Pids or eAdSvc\_V2\_MergeEISS\_Pids.*
- IPS\_RefSvc\_t [DCM::DeviceControl::ETV\\_ManipulationSettings\\_V2\\_t::OutputSvc](#)  
*Reference to the output service.*
- ETV\_Primary\_Settings\_V2\_t [DCM::DeviceControl::ETV\\_ManipulationSettings\\_V2\\_t::ETV\\_Primary\\_Settings](#)
- ETV\_Insertion\_Settings\_V2\_t [DCM::DeviceControl::ETV\\_ManipulationSettings\\_V2\\_t::ETV\\_Insertion\\_Settings](#)
- unsigned long [DCM::DeviceControl::ETV\\_ApplicationIdent\\_t::OrgId](#)
- unsigned short [DCM::DeviceControl::ETV\\_ApplicationIdent\\_t::AppId](#)
- AppInstanceId\_t [DCM::DeviceControl::ETV\\_ApplicationIdent\\_t::AppInstanceId](#)  
*Reserved for future use. Must be empty sequence.*
- unsigned long [DCM::DeviceControl::ETV\\_ApplicationIdent\\_t::StartTime](#)  
*Reserved for future use. Must be 0.*
- unsigned long [DCM::DeviceControl::ETV\\_ApplicationIdent\\_t::EndTime](#)  
*Reserved for future use. Must be 0xFFFFFFFF.*
- IPS\_RefSvc\_t [DCM::DeviceControl::ETV\\_EissFilter\\_t::OutputSvc](#)  
*Reference to the output service.*
- boolean [DCM::DeviceControl::ETV\\_EissFilter\\_t::EnableFilter](#)  
*if true, the filter is enabled*
- boolean [DCM::DeviceControl::ETV\\_EissFilter\\_t::WhiteList](#)  
*if true, the filter list is a white list and others are blocked*
- ETV\_ApplicationIdent\_List\_t [DCM::DeviceControl::ETV\\_EissFilter\\_t::Filter](#)
- IPS\_Service\_t [DCM::DeviceControl::ClearPidBitrates\\_t::SvcOut](#)
- boolean [DCM::DeviceControl::ClearPidBitrates\\_t::ClearPidBitrates](#)
- IPS\_Service\_t [DCM::DeviceControl::AddPidsFromSplice\\_t::SvcOut](#)
- boolean [DCM::DeviceControl::AddPidsFromSplice\\_t::AddPidsFromSplice](#)
- IPS\_Service\_t [DCM::DeviceControl::AlternateSource\\_t::SvcSource](#)
- AlternateSrcId\_t [DCM::DeviceControl::AlternateSource\\_t::AlternateSrcId](#)  
*the ID of this alternate source (read-only)*
- AlternateSourceList\_t [DCM::DeviceControl::AlternateSourceSettings\\_t::AlternateSources](#)  
*A list of all the alternate sources.*
- AlternateSrcId\_t [DCM::DeviceControl::AlternateSourceSettings\\_t::MainSourceId](#)

- the ID of the main source (this is initially the original source) (read-only)*
- AlternateSrcId\_t `DCM::DeviceControl::AlternateSourceSettings_t::ActiveSourceId`  
*the ID of the currently active source (read-only)*
- AlternateSrcId\_t `DCM::DeviceControl::AlternateSourceSettings_t::InsertionSourceId`  
*The ID of the insertion source (0xFFFFFFFF if none is present) (read-only)*
- IPS\_Service\_t `DCM::DeviceControl::Scte35Source_t::SvcOut`
- eScte35Source `DCM::DeviceControl::Scte35Source_t::Scte35Source`  
*The source of which the SCTE35 messages < should be processed.*
- AlternateSrcId\_t `DCM::DeviceControl::Scte35Source_t::OtherSrcId`  
*the ID of this alternate source, < if Scte35Source == other*
- IPS\_Service\_t `DCM::DeviceControl::Scte35ToggleOutOfNetwork_t::SvcOut`
- boolean `DCM::DeviceControl::Scte35ToggleOutOfNetwork_t::ToggleOutOfNetwork`  
*Set to True if the out\_of\_network\_indicator bit should be toggled.*
- IPS\_RefTS\_t `DCM::DeviceControl::IPS_OutTS_RTP_t::Ref`
- eRTP `DCM::DeviceControl::IPS_OutTS_RTP_t::RTPOnOff`
- eVLAN `DCM::DeviceControl::VLAN_Settings_t::VLANOnOff`
- unsigned short `DCM::DeviceControl::VLAN_Settings_t::VLANID`  
*range: 0-4094 12 bit, 0xFFFF not allowed, 0=no vlan id, only priority (ieee 802.1Q))*
- unsigned short `DCM::DeviceControl::VLAN_Settings_t::Priority`  
*range: 0-7 0=default 1=low 7=high (ieee 802.1D)*
- IPS\_RefTS\_t `DCM::DeviceControl::OutTS_VLAN_t::RefTs`
- VLAN\_Settings\_t `DCM::DeviceControl::OutTS_VLAN_t::VLAN`
- IPS\_RefTS\_t `DCM::DeviceControl::OutTS_TOS_t::RefTs`
- unsigned short `DCM::DeviceControl::OutTS_TOS_t::TOS_Value`
- boolean `DCM::DeviceControl::SrcAddr_t::m_bUsePortIp`  
*If this flag is true, the ip address of the port is used as source ip address.*
- string `DCM::DeviceControl::SrcAddr_t::m_Ip`  
*This field has no effect if m\_bUsePortIp is true.*
- unsigned short `DCM::DeviceControl::SrcAddr_t::m_UdpPort`  
*The Port Number to use as source udp port.*
- IPS\_RefTS\_t `DCM::DeviceControl::OutTS_SrcAddr_t::m_RefTs`
- SrcAddr\_t `DCM::DeviceControl::OutTS_SrcAddr_t::m_SrcAddr`
- IPS\_RefTS\_t `DCM::DeviceControl::OutTS_SrcAddr_V2_t::m_RefTs`
- SrcAddr\_t `DCM::DeviceControl::OutTS_SrcAddr_V2_t::m_SrcAddr`
- boolean `DCM::DeviceControl::OutTS_SrcAddr_V2_t::m_DynamicSrcUdpPort`
- IPS\_RefTS\_t `DCM::DeviceControl::OutTS_TTL_t::RefTs`
- unsigned short `DCM::DeviceControl::OutTS_TTL_t::TTL_Value`
- IPS\_RefTS\_t `DCM::DeviceControl::OutTS_VBR_t::RefTs`
- eVBR `DCM::DeviceControl::OutTS_VBR_t::VBROnOff`
- IPS\_RefTS\_t `DCM::DeviceControl::OutTS_UdpSize_t::RefTs`
- unsigned short `DCM::DeviceControl::OutTS_UdpSize_t::UdpSize`
- ePortFilterType `DCM::DeviceControl::PortFilter_t::PortFilterType`
- ePortFilterMode `DCM::DeviceControl::PortFilter_t::PortFilterMode`
- string `DCM::DeviceControl::ArpEntry_t::IP_Addr`  
*e.g. "10.11.52.101"*
- string `DCM::DeviceControl::ArpEntry_t::MacAddr`  
*e.g. "00:00:c4:25:31:12"*
- eArpStatus `DCM::DeviceControl::ArpEntry_t::Status`

- IPS\_Ref\_t DCM::DeviceControl::ArpEntry\_t::RefPhys
- boolean DCM::DeviceControl::IP\_Route\_t::Static  
*Static route or not.*
- string DCM::DeviceControl::IP\_Route\_t::IP\_Addr  
*use "0.0.0.0" to create a default route*
- string DCM::DeviceControl::IP\_Route\_t::SubNetMask  
*use "0.0.0.0" to create a default route*
- string DCM::DeviceControl::IP\_Route\_t::Gateway
- IPS\_Ref\_t DCM::DeviceControl::IP\_Route\_t::RefPhys
- boolean DCM::DeviceControl::IP\_Route\_t\_V2::Static  
*Static route or not.*
- string DCM::DeviceControl::IP\_Route\_t\_V2::IP\_Addr
- unsigned short DCM::DeviceControl::IP\_Route\_t\_V2::PrefixLength
- string DCM::DeviceControl::IP\_Route\_t\_V2::Gateway
- IPS\_Ref\_t DCM::DeviceControl::IP\_Route\_t\_V2::RefPhys
- string DCM::DeviceControl::EndDeviceEntry\_t::IP\_Addr
- eDestRoutingStatus DCM::DeviceControl::EndDeviceEntry\_t::RoutingStatus  
*routable or not*
- eDestArpStatus DCM::DeviceControl::EndDeviceEntry\_t::ArpStatus  
*1) if LAN: ArpStatus of end device 2) if GW: ArpStatus of GW*
- IPS\_Ref\_t DCM::DeviceControl::EndDeviceEntry\_t::RefPhys
- eFECDecMode DCM::DeviceControl::FEC\_Dec\_Setting\_t::Mode
- IPS\_UDP\_Socket\_t DCM::DeviceControl::FEC\_Dec\_Setting\_t::ColFEC
- IPS\_UDP\_Socket\_t DCM::DeviceControl::FEC\_Dec\_Setting\_t::RowFEC
- boolean DCM::DeviceControl::FEC\_Dec\_Setting\_t::FollowDefaultRule  
*readonly flag indicating if FEC Default Rule settings are used*
- IPS\_RefTS\_t DCM::DeviceControl::InTS\_FEC\_Dec\_Setting\_t::RefTSIn
- FEC\_Dec\_Setting\_t DCM::DeviceControl::InTS\_FEC\_Dec\_Setting\_t::FecDecSet
- eFECDecMode DCM::DeviceControl::InTS\_FEC\_Dec\_DefRuleSetting\_t::Mode
- eFECIncrScheme DCM::DeviceControl::InTS\_FEC\_Dec\_DefRuleSetting\_t::IncrScheme
- unsigned short DCM::DeviceControl::InTS\_FEC\_Dec\_DefRuleSetting\_t::ColFEC\_Offset
- unsigned short DCM::DeviceControl::InTS\_FEC\_Dec\_DefRuleSetting\_t::RowFEC\_Offset
- unsigned long long DCM::DeviceControl::FEC\_Dec\_Statistics\_t::ValidPacketCount
- unsigned long long DCM::DeviceControl::FEC\_Dec\_Statistics\_t::MissingPacketCount
- unsigned long long DCM::DeviceControl::FEC\_Dec\_Statistics\_t::FixedPacketCount
- unsigned long long DCM::DeviceControl::FEC\_Dec\_Statistics\_t::DuplicatePacketCount
- unsigned long long DCM::DeviceControl::FEC\_Dec\_Statistics\_t::ReorderedPacketCount
- unsigned long long DCM::DeviceControl::FEC\_Dec\_Statistics\_t::OutOfRangePacketCount
- IPS\_RefTS\_t DCM::DeviceControl::InTS\_FEC\_Dec\_Statistics\_t::RefTSIn
- FEC\_Dec\_Statistics\_t DCM::DeviceControl::InTS\_FEC\_Dec\_Statistics\_t::FecDecStat
- boolean DCM::DeviceControl::FEC\_Dec\_Status\_t::ColFEC\_Present
- boolean DCM::DeviceControl::FEC\_Dec\_Status\_t::RowFEC\_Present
- unsigned short DCM::DeviceControl::FEC\_Dec\_Status\_t::D\_ColDepth
- unsigned short DCM::DeviceControl::FEC\_Dec\_Status\_t::L\_RowLength
- unsigned short DCM::DeviceControl::FEC\_Dec\_Status\_t::ColFEC\_Overhead  
*in percentage fixed point 2 digit (x100)*
- unsigned short DCM::DeviceControl::FEC\_Dec\_Status\_t::RowFEC\_Overhead  
*in percentage fixed point 2 digit (x100)*
- unsigned short DCM::DeviceControl::FEC\_Dec\_Status\_t::TotalOverhead



- in percentage fixed point 2 digit (x100)*
- unsigned short `DCM::DeviceControl::FEC_Dec_Status_t::Latency`  
*in ms fixed point 1 digit (x10)*
- `IPS_RefTS_t` `DCM::DeviceControl::InTS_FEC_Dec_Status_t::RefTSIn`
- `FEC_Dec_Status_t` `DCM::DeviceControl::InTS_FEC_Dec_Status_t::FecDecStat`
- `eFECEncMode` `DCM::DeviceControl::FEC_Enc_Setting_t::Mode`  
*default value is FEC disabled*
- `eFECSendingArrangement` `DCM::DeviceControl::FEC_Enc_Setting_t::SendingArrangement`  
*for 4.0 release, SendingArrangement must always be ePRO\_MPEG\_COP3\_ANNEX\_B*
- `IPS_UDP_Socket_t` `DCM::DeviceControl::FEC_Enc_Setting_t::ColFEC`  
*for 4.0 release, IP = IP TS and UDP = UDP TS + 2*
- `IPS_UDP_Socket_t` `DCM::DeviceControl::FEC_Enc_Setting_t::RowFEC`  
*for 4.0 release, IP = IP TS and UDP = UDP TS + 4*
- unsigned short `DCM::DeviceControl::FEC_Enc_Setting_t::D_ColDepth`  
*default value D = 6*
- unsigned short `DCM::DeviceControl::FEC_Enc_Setting_t::L_RowLength`  
*default value L = 10*
- `IPS_RefTS_t` `DCM::DeviceControl::OutTS_FEC_Enc_Setting_t::RefTSOut`
- `FEC_Enc_Setting_t` `DCM::DeviceControl::OutTS_FEC_Enc_Setting_t::FecEncSett`
- `eFECEncMode` `DCM::DeviceControl::FEC_Enc_Setting_V2_t::Mode`  
*default value is FEC disabled*
- `eFECSendingArrangement` `DCM::DeviceControl::FEC_Enc_Setting_V2_t::SendingArrangement`  
*for 4.0 release, SendingArrangement must always be ePRO\_MPEG\_COP3\_ANNEX\_B*
- unsigned short `DCM::DeviceControl::FEC_Enc_Setting_V2_t::D_ColDepth`  
*default value D = 6*
- unsigned short `DCM::DeviceControl::FEC_Enc_Setting_V2_t::L_RowLength`  
*default value L = 10*
- `IPS_RefTS_t` `DCM::DeviceControl::OutTS_FEC_Enc_Setting_V2_t::RefTS`
- `FEC_Enc_Setting_V2_t` `DCM::DeviceControl::OutTS_FEC_Enc_Setting_V2_t::FecEncSett`
- `eFECEncMode` `DCM::DeviceControl::OutTS_FEC_Enc_DefSetting_t::Mode`  
*default value is FEC disabled*
- `eFECSendingArrangement` `DCM::DeviceControl::OutTS_FEC_Enc_DefSetting_t::SendingArrangement`  
*for 4.0 release, SendingArrangement must always be ePRO\_MPEG\_COP3\_ANNEX\_B*
- `eFECIncrScheme` `DCM::DeviceControl::OutTS_FEC_Enc_DefSetting_t::IncrScheme`  
*default value is increment UDP (eUDP\_OFFSET) (fixed for 4.0 release)*
- unsigned short `DCM::DeviceControl::OutTS_FEC_Enc_DefSetting_t::ColFecOffset`  
*default value column offset = 2 (fixed for 4.0 release)*
- unsigned short `DCM::DeviceControl::OutTS_FEC_Enc_DefSetting_t::RowFecOffset`  
*default value row offset = 4 (fixed for 4.0 release)*
- unsigned short `DCM::DeviceControl::OutTS_FEC_Enc_DefSetting_t::D_ColDepth`  
*note: the name of this member changed from 5.0->5.1 The old name was D\_RowWidth*
- unsigned short `DCM::DeviceControl::OutTS_FEC_Enc_DefSetting_t::L_RowLength`  
*note: the name of this member changed from 5.0->5.1.*
- `eFECErrorMode` `DCM::DeviceControl::FEC_Enc_ErrorGen_t::Mode`
- unsigned short `DCM::DeviceControl::FEC_Enc_ErrorGen_t::NrGoodPackets`  
*number of good packets (IPGW: range 1..65535)*

- unsigned short `DCM::DeviceControl::FEC_Enc_ErrorGen_t::NrErrorPackets`  
*number of error packets (IPGW: range 1..512)*
- `IPS_RefTS_t DCM::DeviceControl::OutTS_FEC_Enc_ErrorGen_t::RefTSOut`
- `FEC_Enc_ErrorGen_t DCM::DeviceControl::OutTS_FEC_Enc_ErrorGen_t::FecEncErrorSett`
- unsigned short `DCM::DeviceControl::FEC_Enc_Overhead_t::ColFEC_Overhead`  
*in percentage fixed point 2 digit (x100), e.g. 10% -> 1000*
- unsigned short `DCM::DeviceControl::FEC_Enc_Overhead_t::RowFEC_Overhead`  
*in percentage fixed point 2 digit (x100), e.g. 10% -> 1000*
- unsigned short `DCM::DeviceControl::FEC_Enc_Overhead_t::TotalOverhead`  
*in percentage fixed point 2 digit (x100), e.g. 10% -> 1000*
- `IPS_RefTS_t DCM::DeviceControl::OutTS_FEC_Enc_Overhead_t::RefTSOut`
- `FEC_Enc_Overhead_t DCM::DeviceControl::OutTS_FEC_Enc_Overhead_t::FecEncOverhead`
- `enHitlessMergeMode_t DCM::DeviceControl::HitlessMergeSetting_t::Mode`
- `IPS_UDP_Socket_t DCM::DeviceControl::HitlessMergeSetting_t::OtherUDP_Socket`  
*this is only valid when Mode is eHitlessMergeMode\_EnabledOtherUDP\_Socket*
- unsigned short `DCM::DeviceControl::HitlessMergeSetting_t::PacketWindow`  
*For future use, will read 0.*
- unsigned short `DCM::DeviceControl::HitlessMergeSetting_t::Delay`  
*in ms fixed point 1 digit (x10), read only*
- `IPS_RefTS_t DCM::DeviceControl::InTS_HitlessMergeSetting_t::RefTSIn`
- `HitlessMergeSetting_t DCM::DeviceControl::InTS_HitlessMergeSetting_t::HitlessMergeSetting`
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::Total`  
*< Statistics about received frames*
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::Broadcast`  
*Broadcast frames.*
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::Multicast`  
*Multicast frames.*
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::Size64`  
*64 byte frames*
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::Size127`  
*65-127 byte frames*
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::Size255`  
*128-255 byte frames*
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::Size511`  
*256-511 byte frames*
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::Size1023`  
*512-1023 byte frames*
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::SizeMax`  
*1024-max byte frames*
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::Oversize`  
*Oversize frames.*
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::Control`  
*Control frames.*
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::VLAN`  
*VLAN tagged frames.*
- unsigned long long `DCM::DeviceControl::GbEFramesRecv_t::Pause`  
*Pause Frames.*



- unsigned long long [DCM::DeviceControl::GbEFramesRecv\\_t::FCS\\_Bad](#)  
*FCS/CRC error.*
- unsigned long long [DCM::DeviceControl::GbEFramesRecv\\_t::Length\\_Type\\_Bad](#)  
*Length/Type out of range.*
- unsigned long long [DCM::DeviceControl::GbEFramesRecv\\_t::Opcode\\_Bad](#)  
*Invalid Opcode.*
- unsigned long long [DCM::DeviceControl::GbEFramesRecv\\_t::Undersize](#)  
*Undersized frames.*
- unsigned long long [DCM::DeviceControl::GbEFramesRecv\\_t::Fragment](#)  
*Fragments.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Total](#)  
*< Statistics about transmitted frames*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Broadcast](#)  
*Broadcast frames.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Multicast](#)  
*Multicast frames.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Control](#)  
*Control frames.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Size64](#)  
*64 byte frames*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Size127](#)  
*65-127 byte frames*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Size255](#)  
*128-255 byte frames*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Size511](#)  
*256-511 byte frames*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Size1023](#)  
*512-1023 byte frames*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::SizeMax](#)  
*1024-max byet frames*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::VLAN](#)  
*VLAN tagged frames.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Pause](#)  
*Pause frames.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Oversize](#)  
*Oversized frames.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Underrun](#)  
*Buffer underrun Following items are -- not to be used -- since they are not applicable in Full-Duplex mode while GbE always runs in Full-Duplex mode.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::SingleCollision](#)  
*Single collision.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::MultiCollision](#)  
*Multiple collisions.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::Deferred](#)  
*Deferred frames.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::LateCollision](#)  
*Late collisions.*

- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::CollisionAbort](#)  
*Frames aborted by collisions.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::CarrierSense](#)  
*No carrier sense.*
- unsigned long long [DCM::DeviceControl::GbEFramesTrans\\_t::ExcessDeferral](#)  
*Excess deferral end of -- not to be used --.*
- GbEFramesRecv\_t [DCM::DeviceControl::GbEStatisticsEntry\\_t::Rx](#)
- GbEFramesTrans\_t [DCM::DeviceControl::GbEStatisticsEntry\\_t::Tx](#)
- unsigned long long [DCM::DeviceControl::GbEStatisticsEntry\\_t::BytesRx](#)  
*Bytes received.*
- unsigned long long [DCM::DeviceControl::GbEStatisticsEntry\\_t::BytesTx](#)  
*Bytes transmitted.*
- IPS\_Ref\_t [DCM::DeviceControl::GbEPortStatsEntry\\_t::Port](#)  
*The port for which the stats apply.*
- GbEStatisticsEntry\_t [DCM::DeviceControl::GbEPortStatsEntry\\_t::Stats](#)  
*The statistics.*
- string [DCM::DeviceControl::IGMPv2MulticastGroup\\_t::MulticastGroup](#)
- IPS\_Ref\_t [DCM::DeviceControl::IGMPv2MulticastGroup\\_t::RefPhys](#)
- IPS\_Ref\_t [DCM::DeviceControl::IGMPv3Group\\_t::RefPhys](#)
- string [DCM::DeviceControl::IGMPv3Group\\_t::MulticastGroup](#)
- boolean [DCM::DeviceControl::IGMPv3Group\\_t::bLeaveAllowed](#)
- enumIGMPv3Filtertype [DCM::DeviceControl::IGMPv3Group\\_t::enFiltertype](#)
- sequence< string > [DCM::DeviceControl::IGMPv3Group\\_t::Filter](#)
- unsigned long [DCM::DeviceControl::PCTM\\_ThresholdValues\\_t::MissingPackets\\_BeforeErrorCorrection](#)
- unsigned long [DCM::DeviceControl::PCTM\\_ThresholdValues\\_t::MissingPackets\\_AfterErrorCorrection](#)
- unsigned long [DCM::DeviceControl::PCTM\\_ThresholdValues\\_t::FixedPackets](#)
- unsigned long [DCM::DeviceControl::PCTM\\_ThresholdValues\\_t::OutOfRangePackets](#)
- IPS\_RefTS\_t [DCM::DeviceControl::PCTM\\_StreamThresholdSettings\\_t::RefTSIn](#)
- PCTM\_ThresholdValues\_t [DCM::DeviceControl::PCTM\\_StreamThresholdSettings\\_t::ThresholdValues](#)
- unsigned long long [DCM::DeviceControl::PCTM\\_PacketCounters\\_t::MissingPackets\\_BeforeError-Correction\\_Main](#)
- unsigned long long [DCM::DeviceControl::PCTM\\_PacketCounters\\_t::MissingPackets\\_BeforeError-Correction\\_Backup](#)
- unsigned long long [DCM::DeviceControl::PCTM\\_PacketCounters\\_t::ValidPackets](#)
- unsigned long long [DCM::DeviceControl::PCTM\\_PacketCounters\\_t::MissingPackets\\_AfterErrorCorrection](#)
- unsigned long long [DCM::DeviceControl::PCTM\\_PacketCounters\\_t::FixedPackets](#)
- unsigned long long [DCM::DeviceControl::PCTM\\_PacketCounters\\_t::DuplicatePackets](#)
- unsigned long long [DCM::DeviceControl::PCTM\\_PacketCounters\\_t::ReorderedPackets](#)
- unsigned long long [DCM::DeviceControl::PCTM\\_PacketCounters\\_t::OutOfRangePackets](#)
- IPS\_RefTS\_t [DCM::DeviceControl::PCTM\\_StreamPacketCounters\\_t::RefTSIn](#)
- PCTM\_PacketCounters\_t [DCM::DeviceControl::PCTM\\_StreamPacketCounters\\_t::PacketCounters](#)
- eFeatureState [DCM::DeviceControl::Feature\\_t::Status](#)
- eFeatureInstallState [DCM::DeviceControl::Feature\\_t::Install](#)
- eFeatureType [DCM::DeviceControl::Feature\\_t::Type](#)
- eFeatureExpireState [DCM::DeviceControl::Feature\\_t::Expired](#)
- string [DCM::DeviceControl::Feature\\_t::Name](#)  
*Max string length 36.*
- string [DCM::DeviceControl::Feature\\_t::Version](#)  
*Max string length 36.*

- string `DCM::DeviceControl::Feature_t::Date`  
*Max string length 36.*
- string `DCM::DeviceControl::Feature_t::Key`  
*Max string length 36.*
- long `DCM::DeviceControl::Feature_t::Count`
- long `DCM::DeviceControl::Feature_t::Used`
- long `DCM::DeviceControl::Feature_t::TimeLeft`
- string `DCM::DeviceControl::LicenseValidation_t::Version`  
*Version of the licenses.*
- string `DCM::DeviceControl::LicenseValidation_t::ValidationKey`  
*Validation Key.*
- TempLicenseState\_t `DCM::DeviceControl::TempLicenseData::State`
- Time `DCM::DeviceControl::TempLicenseData::ExpirationDate`  
*time of expiration of the temporary licenses in the local timezone*
- boolean `DCM::DeviceControl::TempLicenseData::RebootNeeded`
- string `DCM::DeviceControl::FeatureUsage_t::FeatureName`  
*unique name identifying the feature.*
- long `DCM::DeviceControl::FeatureUsage_t::UsageCount`  
*the number of licenses in use for this feature.*
- unsigned short `DCM::DeviceControl::BoardFeatureUsage_t::BoardNr`  
*the slot number.*
- FeatureUsageList\_t `DCM::DeviceControl::BoardFeatureUsage_t::FeatureUsageList`  
*a list of all the used features.*
- IPS\_Service\_t `DCM::DeviceControl::ServiceLossTrigger_t::service`
- TriggerBitmap\_t `DCM::DeviceControl::ServiceLossTrigger_t::triggerBitmap`
- PID\_List\_t `DCM::DeviceControl::ServiceLossTrigger_t::pidList`  
*PID range: 0..8190, List of pids to monitor: only evaluated in case bit 6 in the TriggerBitmap\_t is set.*
- IPS\_RefTS\_t `DCM::DeviceControl::TS_LossTrigger_t::RefTS`
- TriggerBitmap\_t `DCM::DeviceControl::TS_LossTrigger_t::triggerBitmap`
- IPS\_Ref\_t `DCM::DeviceControl::DeviceBackupLink_t::NetworkInterface`  
*Specify BoardNr = 0 and PortNr = 0 for the 10/100 management network interface and PortNr = 1 for the GbE C/A network interface.*
- string `DCM::DeviceControl::DeviceBackupLink_t::PeerIPAddress`  
*IP address of the other DCM, as reachable via the specified network interface.*
- unsigned short `DCM::DeviceControl::DeviceBackupLink_t::ProtocolUDPPort`  
*UDP port to be used by both DCM's. Must be the same on both DCM's for this link.*
- eDeviceRole `DCM::DeviceControl::DeviceBackupParams_t::DeviceRole`  
*Role of this device. Other settings are only valid if the role is not standalone.*
- string `DCM::DeviceControl::DeviceBackupParams_t::PeerIPAddress`  
*IP Address of the other DCM.*
- unsigned short `DCM::DeviceControl::DeviceBackupParams_t::ProtocolUDPPort`  
*UDP Port to be used by both DCM's. Must be the same value on both devices.*
- IPS\_Ref\_t `DCM::DeviceControl::DeviceBackupParams_t::NetworkInterface`  
*Specify BoardNr = 0 and PortNr = 0 for the 10/100 management network interface and PortNr = 1 for the GbE C/A network interface.*
- boolean `DCM::DeviceControl::DeviceBackupParams_t::Revertive`  
*True if the device should automatically revert to main when possible.*
- unsigned long `DCM::DeviceControl::DeviceBackupParams_t::MainToBackupDelay`

- Time in seconds to wait before switching to backup device, range 1-60 s.*

  - unsigned long `DCM::DeviceControl::DeviceBackupParams_t::BackupToMainDelay`
- Time in seconds to wait before switching back to main device, range 0-60 s.*

  - `eDeviceRole_V2` `DCM::DeviceControl::DeviceBackupParamsV2_t::DeviceRole`

*Role of this device.*
- `DeviceBackupLinkList_t` `DCM::DeviceControl::DeviceBackupParamsV2_t::Links`

*Links towards peer (0 in case of standalone)*
- `eDBURevertMode` `DCM::DeviceControl::DeviceBackupParamsV2_t::RevertMode`

*Revertive mode.*
- unsigned long `DCM::DeviceControl::DeviceBackupParamsV2_t::MainToBackupDelay`

*Time in seconds to wait before switching to backup device or deactivating, range 1-60 s.*
- unsigned long `DCM::DeviceControl::DeviceBackupParamsV2_t::BackupToMainDelay`

*Time in seconds to wait before switching back to main device or reactivating, range 0-60 s.*
- `MM_ID_t` `DCM::DeviceControl::AlarmTriggerRule_t::AlarmRef`
- boolean `DCM::DeviceControl::AlarmTriggerRule_t::Trigger`
- `eRestoreOption` `DCM::DeviceControl::RestoreOption::Option`

*Which option.*
- boolean `DCM::DeviceControl::RestoreOption::Enabled`

*Should the option be used.*
- `eRestoreOption_V2` `DCM::DeviceControl::RestoreOption_V2::Option`

*Which option.*
- boolean `DCM::DeviceControl::RestoreOption_V2::Enabled`

*Should the option be used.*
- `IPS_RefTS_List_t` `DCM::DeviceControl::TS_BackupParams_t::BackupInTS_List`
- boolean `DCM::DeviceControl::TS_BackupParams_t::Revertive`
- unsigned long `DCM::DeviceControl::TS_BackupParams_t::HighToLowPriorityDelay`

*time in seconds to wait before switching to backup*
- unsigned long `DCM::DeviceControl::TS_BackupParams_t::LowToHighPriorityDelay`

*time in seconds to wait before switching back to main input*
- string `DCM::DeviceControl::MIP_SyncTargetSettings_t::IP_Address`
- string `DCM::DeviceControl::MIP_SyncTargetSettings_t::UserName`
- string `DCM::DeviceControl::MIP_SyncTargetSettings_t::Password`
- `IPS_RefTS_t` `DCM::DeviceControl::ASI_DTF_t::InputRef`

*The reference to the DTF input stream.*
- boolean `DCM::DeviceControl::ASI_DTF_t::bBlocked`

*true means input not used, false means input passed*
- boolean `DCM::DeviceControl::ASI_DTF_t::bEncapsulated`

*true means output encapsulated in ghost PID, false means passed*
- boolean `DCM::DeviceControl::ASI_DTF_t::bRemoveStuffing`

*if true and bEncapsulated is false, then the original stuffing packets are removed*
- unsigned short `DCM::DeviceControl::ASI_DTF_t::OutputPID`

*Ghost PID for encapsulating this input stream.*
- unsigned long `DCM::DeviceControl::ASI_DTF_t::AFInterval`

*The interval between two adaptation fields, in ms.*
- unsigned long `DCM::DeviceControl::ASI_DTF_t::TS_InProperty`

*Property bitmap.*
- boolean `DCM::DeviceControl::ASI_DTF_t::bBISS1Scrambled`

- true means this stream will be scrambled while encapsulating*
- ByteStream [DCM::DeviceControl::ASI\\_DTF\\_t::BISS1ScramblingKey](#)  
*scrambling key should be 6 bytes long (scrambling is always even)*
- IPS\_RefTS\_t [DCM::DeviceControl::ASI\\_DTF\\_Ex\\_t::InputRef](#)  
*The reference to the DTF input stream.*
- boolean [DCM::DeviceControl::ASI\\_DTF\\_Ex\\_t::bBlocked](#)  
*True means input not used, false means input passed.*
- boolean [DCM::DeviceControl::ASI\\_DTF\\_Ex\\_t::bEncapsulated](#)  
*True means output encapsulated in ghost PID, false means passed.*
- boolean [DCM::DeviceControl::ASI\\_DTF\\_Ex\\_t::bRemoveStuffing](#)  
*If true and bEncapsulated is false, then the original stuffing packets are removed.*
- unsigned short [DCM::DeviceControl::ASI\\_DTF\\_Ex\\_t::OutputPID](#)  
*Ghost PID for encapsulating this input stream.*
- unsigned long [DCM::DeviceControl::ASI\\_DTF\\_Ex\\_t::AFInterval](#)  
*The interval between two adaptation fields, in ms.*
- unsigned long [DCM::DeviceControl::ASI\\_DTF\\_Ex\\_t::TS\\_InProperty](#)  
*Property bitmap: bit[0] indicates scrambling status (1 = OK)*
- boolean [DCM::DeviceControl::ASI\\_DTF\\_Ex\\_t::bBISS1Scrambled](#)  
*True means this stream will be scrambled while encapsulating.*
- unsigned short [DCM::DeviceControl::ASI\\_DTF\\_Ex\\_t::ScramblingKeyIndex](#)  
*Index into the scrambling key list, should be less than 1024, used when not overridden by the global default.*
- eASI\_DTF\_ScramblingType [DCM::DeviceControl::ASI\\_DTF\\_Ex\\_t::ScramblingType](#)  
*Input level scrambling type setting, used when not overridden by the global type.*
- IPS\_RefTS\_t [DCM::DeviceControl::ASI\\_DTF\\_RDSCS\\_t::InputRef](#)  
*The reference to the DTF input stream.*
- boolean [DCM::DeviceControl::ASI\\_DTF\\_RDSCS\\_t::bRDSCS](#)  
*True means stream consists of a Remultiplexer Data and Control Stream.*
- IPS\_RefTS\_t [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_t::OutputRef](#)  
*The reference to the DTF output stream, currently only stream 9 on port 9 is supported.*
- unsigned long [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_t::Bitrate](#)  
*The outgoing bitrate of the DTF output in bps.*
- unsigned long [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_t::TS\\_OutProperty](#)  
*Property bitmap.*
- ASI\_DTF\_List\_t [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_t::OutputMux](#)  
*List of input settings.*
- IPS\_RefTS\_t [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_Ex\\_t::OutputRef](#)  
*The reference to the DTF output stream, currently only stream 9 on port 9 is supported.*
- unsigned long [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_Ex\\_t::Bitrate](#)  
*The outgoing bitrate of the DTF output in bps.*
- unsigned long [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_Ex\\_t::TS\\_OutProperty](#)  
*Property bitmap.*
- boolean [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_Ex\\_t::bUseMainScramblingKeyIndex](#)  
*True to use the main scrambling key index for all inputs, false to use individual input key indices.*
- unsigned short [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_Ex\\_t::MainScramblingKeyIndex](#)  
*Main index into the scrambling key list.*
- boolean [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_Ex\\_t::bUseMainScramblingType](#)

*True to use the main scrambling type for all inputs, false to use individual input types.*

- eASI\_DTF\_ScramblingType [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_Ex\\_t::MainScramblingType](#)

*Main scrambling type.*

- ASI\_DTF\_ListEx\_t [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_Ex\\_t::OutputMux](#)

*List of input settings.*

- IPS\_RefTS\_t [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_RDSCS\\_t::OutputRef](#)

*The reference to the DTF output stream, currently only stream 9 on port 9 is supported.*

- ASI\_DTF\_RDSCS\_List\_t [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_RDSCS\\_t::InputSettings](#)

*List of DTF RDSCS input settings.*

- ByteStream [DCM::DeviceControl::ASI\\_DTF\\_ScramblingKeyPair\\_t::OddScramblingKey](#)

*Scrambling key for use with odd scrambling, should be exactly 6 bytes long.*

- ByteStream [DCM::DeviceControl::ASI\\_DTF\\_ScramblingKeyPair\\_t::EvenScramblingKey](#)

*Scrambling key for use with even scrambling, should be exactly 6 bytes long.*

- unsigned short [DCM::DeviceControl::ASI\\_DTF\\_ScramblingKey\\_t::Index](#)

*Index in the array of keys, should be <1024.*

- string [DCM::DeviceControl::ASI\\_DTF\\_ScramblingKey\\_t::OddKey](#)

*Hex encoded scrambling key for use with odd scrambling, a valid key is exactly 12 characters long.*

- string [DCM::DeviceControl::ASI\\_DTF\\_ScramblingKey\\_t::EvenKey](#)

*Hex encoded scrambling key for use with even scrambling, a valid key is exactly 12 characters long.*

- MM\_ID\_t [DCM::DeviceControl::MM\\_MessageMainPart::MsgID](#)

*unique ID identifying the sort of message*

- string [DCM::DeviceControl::MM\\_MessageMainPart::SourceName](#)

*device name*

- string [DCM::DeviceControl::MM\\_MessageMainPart::Text](#)

*text of the message*

- string [DCM::DeviceControl::MM\\_MessageMainPart::Subject](#)

- Time [DCM::DeviceControl::MM\\_MessageMainPart::GenerationTime](#)

*generation time of the message - see [Time](#) above*

- MsgBehaviour [DCM::DeviceControl::MM\\_MessageMainPart::Behaviour](#)

- MsgClass [DCM::DeviceControl::MM\\_MessageMainPart::Class](#)

*communication, processing, ...*

- unsigned long [DCM::DeviceControl::MM\\_MessageMainPart::SubClass](#)

- unsigned long [DCM::DeviceControl::MM\\_MessageMainPart::SubClassNbr](#)

*sub number*

- boolean [DCM::DeviceControl::MM\\_MessageMainPart::DetailPresent](#)

- MsgStatus [DCM::DeviceControl::MM\\_MessageMainPart::Status](#)

*begin, end ...*

- MsgSeverity [DCM::DeviceControl::MM\\_MessageMainPart::Severity](#)

- MM\_MessageMainPart [DCM::DeviceControl::MM\\_Message::MessageMain](#)

- string [DCM::DeviceControl::MM\\_Message::MeasDetail](#)

- double [DCM::DeviceControl::MM\\_Message::MeasValue](#)

- string [DCM::DeviceControl::MM\\_Message::MeasUnit](#)

- MeasureType [DCM::DeviceControl::MM\\_Message::MeasType](#)

- MeasureValidity [DCM::DeviceControl::MM\\_Message::MeasValidity](#)

- unsigned long [DCM::DeviceControl::MM\\_Message::MessageNbr](#)

- unsigned short [DCM::DeviceControl::MessageBufferInfo::OldestSeqNumber](#)

*Oldest Message in the Buffer.*

- unsigned short `DCM::DeviceControl::MessageBufferInfo::MostRecentSeqNumber`

*Most Recent Message in the Buffer.*

- unsigned short `DCM::DeviceControl::MessageBufferInfo::MaxSeqNumber`

*Maximum allowed sequence Numbers.*

- unsigned short `DCM::DeviceControl::MessageBufferInfo::SizeOfBuffer`
- boolean `DCM::DeviceControl::MessageSetting::Enabled`

*enable/disabling of individual messages.*

- MsgSeverity `DCM::DeviceControl::MessageSetting::Severity`

*will be used for the binary messages.*

- MsgSeverity `DCM::DeviceControl::MessageSetting::MinorSeverity`

*will be used for the analog messages.*

- MsgSeverity `DCM::DeviceControl::MessageSetting::MajorSeverity`

*will be used for the analog messages.*

- unsigned long `DCM::DeviceControl::MessageSetting::BeginDebounceTime`

*debouncing time when the alarm begins, switches from non-active to active.*

- unsigned long `DCM::DeviceControl::MessageSetting::EndDebounceTime`

*debouncing time when the alarm ends, switches from active to non-active.*

- IPS\_Ref\_t `DCM::DeviceControl::MM_MessageTypeSetting::RefPhys`

*mask port, port info not relevant*

- unsigned short `DCM::DeviceControl::MM_MessageTypeSetting::MsgTypeID`
- MessageSetting `DCM::DeviceControl::MM_MessageTypeSetting::MsgSetting`
- MM\_ID\_t `DCM::DeviceControl::MM_MessageSetting::MsgID`
- MessageSetting `DCM::DeviceControl::MM_MessageSetting::MsgSetting`
- MM\_ID\_t `DCM::DeviceControl::MM_Measurement::MeasureID`
- double `DCM::DeviceControl::MM_Measurement::Value`
- MeasureValidity `DCM::DeviceControl::MM_Measurement::Validity`
- MM\_MeasureStatus `DCM::DeviceControl::MM_Measurement::Status`
- boolean `DCM::DeviceControl::MM_Measurement::DetailPresent`
- string `DCM::DeviceControl::MM_Measurement::Detail`
- MsgSeverity `DCM::DeviceControl::MM_Measurement::CurrentSeverity`
- unsigned short `DCM::DeviceControl::MM_TypeInfo::MeasureTypeID`
- string `DCM::DeviceControl::MM_TypeInfo::Name`
- string `DCM::DeviceControl::MM_TypeInfo::Unit`
- MeasureType `DCM::DeviceControl::MM_TypeInfo::Type`
- DeviceLevel `DCM::DeviceControl::MM_TypeInfo::Level`
- MM\_ID\_Category `DCM::DeviceControl::MM_TypeInfo::ID_Cat`
- unsigned short `DCM::DeviceControl::MM_TypeInfo_V2::MeasureTypeID`
- string `DCM::DeviceControl::MM_TypeInfo_V2::Name`
- string `DCM::DeviceControl::MM_TypeInfo_V2::Unit`
- MeasureType `DCM::DeviceControl::MM_TypeInfo_V2::Type`
- DeviceLevel `DCM::DeviceControl::MM_TypeInfo_V2::Level`
- MM\_ID\_Category `DCM::DeviceControl::MM_TypeInfo_V2::ID_Cat`
- octet `DCM::DeviceControl::MM_TypeInfo_V2::BackupTriggerMethod`
- MM\_ID\_t `DCM::DeviceControl::MM_MeasurementStat::MeasureID`
- unsigned long `DCM::DeviceControl::MM_MeasurementStat::NbrOfOpenStates`
- MsgSeverity `DCM::DeviceControl::MM_MeasurementStat::AlarmSeverity`
- unsigned long `DCM::DeviceControl::BoardBitrateThreshold::VideoBitrateThreshold`

*Bitrate threshold for video PIDs - in bps.*



- unsigned long [DCM::DeviceControl::BoardBitrateThreshold::AudioBitrateThreshold](#)  
*Bitrate threshold for audio PIDs - in bps.*
- unsigned long [DCM::DeviceControl::BoardBitrateThreshold::DataBitrateThreshold](#)  
*Bitrate threshold for data PIDs - in bps.*
- IPS\_Ref\_t [DCM::DeviceControl::MM\\_MessageTypeErrorInterval::RefPhys](#)  
*mask port, port info not relevant*
- eMessage [DCM::DeviceControl::MM\\_MessageTypeErrorInterval::Message](#)  
*message type to set interval for*
- long [DCM::DeviceControl::MM\\_MessageTypeErrorInterval::Interval](#)  
*Interval in ms. Value must be between 0-46600 (incl boundaries). NB: MAX\_PID\_ERROR\_TIMEOUT = 45000.*
- unsigned short [DCM::DeviceControl::CofTrigger\\_t::SlotNumber](#)  
*zero based index of the board's slot number (0 = main board).*
- eBoardPresenceTrigger\_t [DCM::DeviceControl::CofTrigger\\_t::Trigger](#)  
*defines the trigger for the alarm.*
- unsigned long [DCM::DeviceControl::BitrateAlarmSetting\\_t::PayloadBitrateThreshold](#)  
*In pbs. When payload drops below this threshold, alarm will be triggered.*
- boolean [DCM::DeviceControl::BitrateAlarmSetting\\_t::PayloadBitrateEnabled](#)  
*True means alarm monitoring is enabled for the 'Payload Bitrate Too Low' alarm.*
- unsigned long [DCM::DeviceControl::BitrateAlarmSetting\\_t::StuffingRateThreshold](#)  
*In bps. When stuffing drops below this threshold, alarm will be triggered.*
- boolean [DCM::DeviceControl::BitrateAlarmSetting\\_t::StuffingRateEnabled](#)  
*True means alarm monitoring is enabled for the 'Stuffing Bitrate Too Low' alarm.*
- IPS\_RefTS\_t [DCM::DeviceControl::OutTS\\_AlarmSetting\\_t::OutTsRef](#)  
*Reference to the TS for which the settings are intended.*
- BitrateAlarmSetting\_t [DCM::DeviceControl::OutTS\\_AlarmSetting\\_t::AlarmSetting](#)  
*The alarm settings themselves.*
- boolean [DCM::DeviceControl::ServiceBackupParams\\_t::Revertive](#)
- unsigned long [DCM::DeviceControl::ServiceBackupParams\\_t::HighToLowPriorityDelay](#)  
*time in seconds to wait before switching to backup*
- unsigned long [DCM::DeviceControl::ServiceBackupParams\\_t::LowToHighPriorityDelay](#)  
*time in seconds to wait before switching back to main input*
- IPS\_Service\_t [DCM::DeviceControl::BackupService\\_t::BackupService](#)  
*specifies BoardNr, PortNr, TS and output SID*
- IPS\_Service\_t [DCM::DeviceControl::BackupSrvTable\\_t::MergeSvcSource](#)  
*specifies BoardNr, PortNr, TS and input SID of merged service < (main or merged in service)*
- BackupServiceList\_t [DCM::DeviceControl::BackupSrvTable\\_t::BackupSvcList](#)  
*specifies list of BoardNr, PortNr, TS and input SID < for backup service*
- eServiceBackupMode\_t [DCM::DeviceControl::ServiceBackupParams2\\_t::BU\\_Mode](#)
- unsigned long [DCM::DeviceControl::ServiceBackupParams2\\_t::HighToLowPriorityDelay](#)
- unsigned long [DCM::DeviceControl::ServiceBackupParams2\\_t::LowToHighPriorityDelay](#)
- AlternateSrcId\_t [DCM::DeviceControl::AltSrcBU\\_Setting\\_t::AlternateSrcId](#)
- BackupSrvTableList\_t [DCM::DeviceControl::AltSrcBU\\_Setting\\_t::BackupSrvTableList](#)
- AlternateSrcId\_t [DCM::DeviceControl::AltSrcMergeActiveInSvc\\_t::AlternateSrcId](#)  
*The id of the alternate svc where the merge svc is located.*
- IPS\_Service\_t [DCM::DeviceControl::AltSrcMergeActiveInSvc\\_t::MergeService](#)  
*The Merge Svc on which the Backup Svc is located.*



- IPS\_Service\_t [DCM::DeviceControl::AltSrcMergeActiveInSvc\\_t::ActiveInService](#)  
*The Backup Svc that is (get) or should be (set) activated.*
- IPS\_RefTS\_t [DCM::DeviceControl::TsOutSvcSourceSelection\\_t::RefTs](#)
- ServiceSourcePriority\_t [DCM::DeviceControl::TsOutSvcSourceSelection\\_t::SrcToActivate](#)
- unsigned short [DCM::DeviceControl::SMX\\_PoolRef\\_t::BoardNr](#)
- unsigned short [DCM::DeviceControl::SMX\\_PoolRef\\_t::PoolNr](#)
- SMX\_PoolRef\_t [DCM::DeviceControl::SMX\\_StatMuxPool::PoolRef](#)
- string [DCM::DeviceControl::SMX\\_StatMuxPool::Name](#)
- unsigned long [DCM::DeviceControl::SMX\\_StatMuxPool::Bitrate](#)
- StatMuxMode [DCM::DeviceControl::SMX\\_StatMuxPool::Mode](#)
- ContentMode [DCM::DeviceControl::SMX\\_StatMuxPool::CM\\_Mode](#)
- unsigned short [DCM::DeviceControl::SMX\\_StatMuxPool::Priority](#)
- SMX\_PoolRef\_t [DCM::DeviceControl::SMX\\_StatMuxPool\\_V2::PoolRef](#)
- string [DCM::DeviceControl::SMX\\_StatMuxPool\\_V2::Name](#)
- unsigned long [DCM::DeviceControl::SMX\\_StatMuxPool\\_V2::Bitrate](#)
- StatMuxMode [DCM::DeviceControl::SMX\\_StatMuxPool\\_V2::Mode](#)
- ContentMode [DCM::DeviceControl::SMX\\_StatMuxPool\\_V2::CM\\_Mode](#)
- unsigned short [DCM::DeviceControl::SMX\\_StatMuxPool\\_V2::Priority](#)
- boolean [DCM::DeviceControl::SMX\\_StatMuxPool\\_V2::Active](#)
- string [DCM::DeviceControl::SMX\\_StatMuxPool\\_V2::multicastIP](#)
- SMX\_PoolRef\_t [DCM::DeviceControl::SMX\\_EncRef\\_t::PoolRef](#)
- unsigned long [DCM::DeviceControl::SMX\\_EncRef\\_t::EncRef](#)
- SMX\_EncRef\_t [DCM::DeviceControl::SMX\\_Encoder\\_t::EncRef](#)
- IPS\_Ref\_t [DCM::DeviceControl::SMX\\_Encoder\\_t::Management](#)
- string [DCM::DeviceControl::SMX\\_Encoder\\_t::SourceIP](#)
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::SMX\\_Encoder\\_t::Destination](#)
- short [DCM::DeviceControl::SMX\\_Encoder\\_t::Priority](#)
- EncoderState [DCM::DeviceControl::SMX\\_Encoder\\_t::State](#)
- unsigned long [DCM::DeviceControl::SMX\\_Encoder\\_t::MinBitrate](#)
- unsigned long [DCM::DeviceControl::SMX\\_Encoder\\_t::MaxBitrate](#)
- unsigned long [DCM::DeviceControl::SMX\\_Encoder\\_t::DefBitrate](#)
- unsigned long [DCM::DeviceControl::SMX\\_Encoder\\_t::TargetBitrate](#)
- FrameRateCodes [DCM::DeviceControl::SMX\\_Encoder\\_t::FrameRateCode](#)
- VideoFormats [DCM::DeviceControl::SMX\\_Encoder\\_t::VideoFormat](#)
- EncoderType [DCM::DeviceControl::SMX\\_Encoder\\_t::Type](#)
- SMX\_EncRef\_t [DCM::DeviceControl::SMX\\_ServiceRef\\_t::EncRef](#)
- unsigned long [DCM::DeviceControl::SMX\\_ServiceRef\\_t::SID](#)
- SMX\_EncRef\_t [DCM::DeviceControl::SMX\\_Service\\_t::EncRef](#)
- unsigned long [DCM::DeviceControl::SMX\\_Service\\_t::SID](#)
- DvbString\_t [DCM::DeviceControl::SMX\\_Service\\_t::ServiceName](#)
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::SMX\\_Service\\_t::Source](#)
- SMX\_ServiceRef\_t [DCM::DeviceControl::SMX\\_EncVideoBitRate\\_t::ServiceRef](#)
- BitRateSampleList\_t [DCM::DeviceControl::SMX\\_EncVideoBitRate\\_t::videoBitRateSamplelist](#)
- unsigned short [DCM::DeviceControl::SMX36\\_NetworkQoS\\_t::TTL\\_Value](#)  
*TTL (Time to live) range [1-255].*
- SMX36\_QoSMode\_e [DCM::DeviceControl::SMX36\\_NetworkQoS\\_t::QoSMode](#)  
*QoS Mode.*
- SMX36\_ToS\_e [DCM::DeviceControl::SMX36\\_NetworkQoS\\_t::ToS](#)  
*(mode ToS\_CoS\_Precedence) ToS value (not custom).*

- SMX36\_CoS\_e [DCM::DeviceControl::SMX36\\_NetworkQoS\\_t::CoS](#)  
*(mode ToS\_CoS\_Precedence) CoS value.*
- unsigned short [DCM::DeviceControl::SMX36\\_NetworkQoS\\_t::codePoint](#)  
*(mode Differentiated) Differentiated Service code Point range [0-255].*
- unsigned short [DCM::DeviceControl::SMX36\\_NetworkQoS\\_t::ToSCustom](#)  
*(mode Custom) ToS custom value range [0-255].*
- string [DCM::DeviceControl::SMX36\\_Community\\_t::Name](#)  
*Name of the statmux community MAX string length = 20.*
- string [DCM::DeviceControl::SMX36\\_Community\\_t::MulticastIPAddress](#)  
*The Community multicast IP used by units to join the statmux community.*
- unsigned short [DCM::DeviceControl::SMX36\\_Community\\_t::UdpPort](#)  
*Community communication port range: 1024 (0X400) .. 65535.*
- long [DCM::DeviceControl::SMX36\\_StatmuxController\\_t::Id](#)  
*RO Statmux Controller Id.*
- string [DCM::DeviceControl::SMX36\\_StatmuxController\\_t::DeviceIPAddress](#)  
*RO management IPaddress of the device where the controller is placed.*
- string [DCM::DeviceControl::SMX36\\_StatmuxController\\_t::SystemName](#)  
*RO Systemname hat is the name of the DCM.*
- string [DCM::DeviceControl::SMX36\\_StatmuxController\\_t::CardName](#)  
*RO (CardName) Board of the statmux controller.*
- short [DCM::DeviceControl::SMX36\\_StatmuxController\\_t::PoolCapacity](#)  
*RO The max number of pool the controller can handle.*
- short [DCM::DeviceControl::SMX36\\_StatmuxController\\_t::ActivePools](#)  
*RO The number of active running pools on the controller.*
- short [DCM::DeviceControl::SMX36\\_StatmuxController\\_t::SVCCapacity](#)  
*RO The max number of SVC (video channels) the controller can handle.*
- short [DCM::DeviceControl::SMX36\\_StatmuxController\\_t::ActiveVSEs](#)  
*RO The number of active running VSE on the controller.*
- SMX36\_StatmuxControllerBackupState\_e [DCM::DeviceControl::SMX36\\_StatmuxController\\_t::Backup-State](#)  
*Future need to be clarified.*
- long [DCM::DeviceControl::SMX36\\_Pool\\_t::Id](#)  
*RO Pool Id.*
- string [DCM::DeviceControl::SMX36\\_Pool\\_t::Name](#)  
*Name of pool. MAX string length = 20.*
- unsigned short [DCM::DeviceControl::SMX36\\_Pool\\_t::UdpPort](#)  
*RO UDP Port used to communicate to the SPS.*
- unsigned long [DCM::DeviceControl::SMX36\\_Pool\\_t::controllerId](#)  
*RO Statmux controller Id of the board where the pool is running if alocated else 0.*
- unsigned short [DCM::DeviceControl::SMX36\\_Pool\\_t::VSEParticipants](#)  
*RO The number of VSE running in the pool.*
- unsigned long [DCM::DeviceControl::SMX36\\_Pool\\_t::Bandwidth](#)  
*(bps) The bandwidth of the pool (bps). Must be greather than BandwidthOverhead.*
- unsigned long [DCM::DeviceControl::SMX36\\_Pool\\_t::BandwidthOverhead](#)  
*(bps) Overhead/Free-space to the bandwidth used to prevent overshoot on a mux with a small input buffer. must be less that bandwidth*
- unsigned short [DCM::DeviceControl::SMX36\\_Pool\\_t::STickLength](#)

- (ms) The S-Tick length of the pool.

  - unsigned short `DCM::DeviceControl::SMX36_Pool_t::MaxVSECapacity`  
Maximum number of VSE's expected to be in the pool. range (1-24)
  - unsigned long `DCM::DeviceControl::SMX36_Pool_t::Pool_Property`  
Read only Bitmap used by GUI to display specific icons.
  - `SMX36_PoolSafeRateMode_e` `DCM::DeviceControl::SMX36_Pool_t::SafeRateMode`  
Safe rate mode defines the rate the VSE must fall back on if communication fails to statmux controller.
  - unsigned short `DCM::DeviceControl::SMX36_Pool_t::SPSInstance`  
RO (Reserved) The instance number of the SPS where the pool is running if allocated else 0.
  - `SMX36_PoolGuaranteeMinRateMode_e` `DCM::DeviceControl::SMX36_Pool_t::GuaranteeMinRate-Mode`  
Controls whether VSE's releases unused videobandwidth below the min rate to the rest of the pool when the video complexity is low.
- long `DCM::DeviceControl::SMX36_Pool_V2_t::Id`  
RO Pool Id.
- string `DCM::DeviceControl::SMX36_Pool_V2_t::Name`  
Name of pool. MAX string length = 20.
- unsigned short `DCM::DeviceControl::SMX36_Pool_V2_t::UdpPort`  
RO UDP Port used to communicate to the SPS.
- unsigned long `DCM::DeviceControl::SMX36_Pool_V2_t::controllerId`  
RO Statmux controller Id of the board where the pool is running if allocated else 0.
- unsigned short `DCM::DeviceControl::SMX36_Pool_V2_t::VSEParticipants`  
RO The number of VSE running in the pool.
- unsigned long `DCM::DeviceControl::SMX36_Pool_V2_t::Bandwidth`  
(bps) The bandwidth of the pool (bps). Must be greater than BandwidthOverhead.
- unsigned long `DCM::DeviceControl::SMX36_Pool_V2_t::BandwidthOverhead`  
(bps) Overhead/Free-space to the bandwidth used to prevent overshoot on a mux with a small input buffer. must be less than bandwidth
- unsigned short `DCM::DeviceControl::SMX36_Pool_V2_t::STickLength`  
(ms) The S-Tick length of the pool.
- unsigned short `DCM::DeviceControl::SMX36_Pool_V2_t::MaxVSECapacity`  
Maximum number of VSE's expected to be in the pool. range (1-24)
- unsigned long `DCM::DeviceControl::SMX36_Pool_V2_t::Pool_Property`  
Read only Bitmap used by GUI to display specific icons.
- `SMX36_PoolSafeRateMode_e` `DCM::DeviceControl::SMX36_Pool_V2_t::SafeRateMode`  
Safe rate mode defines the rate the VSE must fall back on if communication fails to statmux controller.
- unsigned short `DCM::DeviceControl::SMX36_Pool_V2_t::SPSInstance`  
RO (Reserved) The instance number of the SPS where the pool is running if allocated else 0.
- boolean `DCM::DeviceControl::SMX36_Pool_V2_t::NtpSyncRequired`  
RW If True, then if DCM NTP Sync Alarm is set, put all VSE members to default rate.
- `SMX36_AlgorithmType_e` `DCM::DeviceControl::SMX36_AlgorithmIdentifier_t::Type`  
Algorithm Type.
- unsigned long `DCM::DeviceControl::SMX36_AlgorithmIdentifier_t::MajorVersion`  
Major version part: the xx out of Vxx.yy.
- unsigned long `DCM::DeviceControl::SMX36_AlgorithmIdentifier_t::MinorVersion`  
Minor version part: the yy out of Vxx.yy.
- long `DCM::DeviceControl::SMX36_Encoder_t::Id`

*Encoder Id.*

- string `DCM::DeviceControl::SMX36_Encoder_t::EncoderIPAddress`  
*RO IPAddress of the encoder management port.*
- string `DCM::DeviceControl::SMX36_Encoder_t::EncoderName`  
*RO Name of the Encoder running. (MAX string length = 20)*
- unsigned short `DCM::DeviceControl::SMX36_Encoder_t::EncoderVSECapacity`  
*RO The Maximum number of VSE the current encoder can handle.*
- `SMX36_EncoderStatus_e` `DCM::DeviceControl::SMX36_Encoder_t::status`  
*RO Status of the Encoder (Read only).*
- unsigned long `DCM::DeviceControl::SMX36_Encoder_t::Encoder_Property`  
*Read only Bitmap used by GUI to display specific icons.*
- unsigned long `DCM::DeviceControl::SMX36_VSEParams_t::DefBitrate`  
*(bps) Default bitrate. Range (200.000 -> 60.000.000)*
- unsigned long `DCM::DeviceControl::SMX36_VSEParams_t::MinBitrate`  
*(bps) Minimum bitrate. Range (200.000 -> 60.000.000)*
- unsigned long `DCM::DeviceControl::SMX36_VSEParams_t::MaxBitrate`  
*(bps) Maximum bitrate. Range (200.000 -> 60.000.000)*
- short `DCM::DeviceControl::SMX36_VSEParams_t::Priority`  
*VSE Priority. Range (0..6)*
- `SMX36_VSEDelay_e` `DCM::DeviceControl::SMX36_VSEParams_t::Delay`  
*VSE Delay.*
- short `DCM::DeviceControl::SMX36_VSEParams_t::MinQ`  
*(Future) Minimum quality.*
- unsigned long `DCM::DeviceControl::SMX36_VSEParams_V2_t::DefBitrate`  
*(bps) Default bitrate. Range (200.000 -> 60.000.000)*
- unsigned long `DCM::DeviceControl::SMX36_VSEParams_V2_t::MinBitrate`  
*(bps) Minimum bitrate. Range (200.000 -> 60.000.000)*
- unsigned long `DCM::DeviceControl::SMX36_VSEParams_V2_t::MaxBitrate`  
*(bps) Maximum bitrate. Range (200.000 -> 60.000.000)*
- short `DCM::DeviceControl::SMX36_VSEParams_V2_t::Priority`  
*VSE Priority. Range (0..6)*
- `SMX36_VSEDelay_V2_e` `DCM::DeviceControl::SMX36_VSEParams_V2_t::Delay`  
*VSE Delay.*
- short `DCM::DeviceControl::SMX36_VSEParams_V2_t::MinQ`  
*(Future) Minimum quality.*
- boolean `DCM::DeviceControl::SMX36_VSEParams_V2_t::GuaranteeMinBitrate`  
*if true, enforce minimum bitrate (by stuffing if needed), default: True*
- long `DCM::DeviceControl::SMX36_VSE_t::Id`  
*RO Unique ID of the video service element.*
- long `DCM::DeviceControl::SMX36_VSE_t::EncoderId`  
*RO Id of the encoder where the VSE is running.*
- string `DCM::DeviceControl::SMX36_VSE_t::VSEName`  
*RO VSEName of this Video encoding stream. MAX string length = 50.*
- string `DCM::DeviceControl::SMX36_VSE_t::VideoStreamEncoderName`  
*RO For future use.*
- `SMX36_VSEStatus_e` `DCM::DeviceControl::SMX36_VSE_t::status`

- RO Status of the VSE.*

  - long [DCM::DeviceControl::SMX36\\_VSE\\_t::PoolId](#)

*Pool Id of the pool containing this VSE if any if not assigned the id is -1.*
  - SMX36\_VSEParams\_t [DCM::DeviceControl::SMX36\\_VSE\\_t::params](#)

*Statmux parameters for the VSE.*
  - unsigned long [DCM::DeviceControl::SMX36\\_VSE\\_t::VSE\\_Property](#)

*Read only Bitmap used by GUI to display specific icons.*
  - unsigned long [DCM::DeviceControl::SMX36\\_VSE\\_t::BandwidthReserve](#)

*(bps) Reserved bandwidth for other tributary's that the video, Used for auto bandwidth calculation on the pool.*
  - SMX36\_VSEBitRateMode\_e [DCM::DeviceControl::SMX36\\_VSE\\_t::BitRateMode](#)

*Default rate configuration mode manual or automatic.*
  - string [DCM::DeviceControl::SMX36\\_VSE\\_t::VideoSEClass](#)

*RO Video stream encoder class. String length = 80.*
  - SMX\_VSEBackupState\_e [DCM::DeviceControl::SMX36\\_VSE\\_t::BackupState](#)

*RO VSE backup state.*
  - long [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::Id](#)

*RO Unique ID of the video service element.*
  - long [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::EncoderId](#)

*RO Id of the encoder where the VSE is running.*
  - string [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::VSEName](#)

*RO VSEName of this Video encoding stream. MAX string length = 50.*
  - string [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::VideoStreamEncoderName](#)

*RO For future use.*
  - SMX36\_VSEStatus\_e [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::status](#)

*RO Status of the VSE.*
  - long [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::PoolId](#)

*Pool Id of the pool containing this VSE if any if not assigned the id is -1.*
  - SMX36\_VSEParams\_t [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::params](#)

*Statmux parameters for the VSE.*
  - unsigned long [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::VSE\\_Property](#)

*Read only Bitmap used by GUI to display specific icons.*
  - unsigned long [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::BandwidthReserve](#)

*(bps) Reserved bandwidth for other tributary's that the video, Used for auto bandwidth calculation on the pool.*
  - SMX36\_VSEBitRateMode\_e [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::BitRateMode](#)

*Default rate configuration mode manual or automatic.*
  - string [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::VideoSEClass](#)

*RO Video stream encoder class. String length = 80.*
  - SMX\_VSEBackupState\_e [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::BackupState](#)

*RO VSE backup state.*
  - boolean [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::Enabled](#)

*Is the VSE to be enabled in the statmux Pool.*
  - string [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t::expectedVideoRateMode](#)

*RO Set when the VSE is placed in a Pool a alarm is raised if actual divigates from expected.*
  - long [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::Id](#)

*RO Unique ID of the video service element, as linked with the VSE after creation.*

- long [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::EncoderId](#)  
*RO Id of the encoder where the VSE is running (set upon [SMX36\\_VSE\\_Create\(\)](#))*
- string [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::VSEName](#)  
*RO VSEName of this Video encoding stream. MAX string length = 50, set upon [SMX36\\_VSE\\_Create\(\)](#)*
- string [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::VideoStreamEncoderName](#)  
*RO For future use: (if multi video in vse, not yet used)*
- SMX36\_VSEStatus\_e [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::status](#)  
*RO Status of the VSE.*
- long [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::PoolId](#)  
*Pool Id of the pool containing this VSE if any if not assigned the id is -1.*
- unsigned long [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::VSE\\_Property](#)  
*Read only Bitmap used by GUI to display specific icons.*
- unsigned long [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::BandwidthReserve](#)  
*(bps) Reserved bandwidth for other tributary's that the video, Used for auto bandwidth calculation on the pool.*
- SMX36\_VSEBitRateMode\_e [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::BitRateMode](#)  
*Default rate configuration mode manual or automatic.*
- SMX\_VSEBackupState\_e [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::BackupState](#)  
*RO VSE backup state.*
- boolean [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::Enabled](#)  
*Is the VSE to be enabled in the statmux Pool.*
- string [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::expectedVideoRateMode](#)  
*RO Set when the VSE is placed in a Pool a alarm is raised if actual divigates from expected.*
- SMX36\_VSE\_Codec\_e [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::VideoCodecStatus](#)  
*new in V10.20 URC:*
- SMX36\_VSE\_Format\_e [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::VideoFormatStatus](#)  
*RO, status as set on VSE: a way to get valid ranges of min/maxbitrates.*
- SMX36\_VSE\_Codec\_e [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::VideoCodecSetting](#)  
*RW, as set on GUI: a way to get valid ranges of min/maxbitrates and check that VSE is still set as expected.*
- SMX36\_VSE\_Format\_e [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::VideoFormatSetting](#)  
*RW, as set on GUI: a way to get valid ranges of min/maxbitrates and check that VSE is still set as expected.*
- SMX36\_VSEParams\_V2\_t [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t::params](#)  
*Statmux parameters for the VSE.*
- long [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::Id](#)  
*RO Unique ID of the video service element, as linked with the VSE after creation.*
- long [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::EncoderId](#)  
*RO Id of the encoder where the VSE is running (set upon [SMX36\\_VSE\\_Create\(\)](#))*
- string [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::VSEName](#)  
*RO VSEName of this Video encoding stream. MAX string length = 50, set upon [SMX36\\_VSE\\_Create\(\)](#)*
- string [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::VideoStreamEncoderName](#)  
*RO For future use: (if multi video in vse, not yet used)*
- SMX36\_VSEStatus\_e [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::status](#)  
*RO Status of the VSE.*
- long [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::PoolId](#)  
*Pool Id of the pool containing this VSE if any if not assigned the id is -1.*
- unsigned long [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::VSE\\_Property](#)  
*Read only Bitmap used by GUI to display specific icons.*



- unsigned long [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::BandwidthReserve](#)  
*(bps) Reserved bandwidth for other tributary's that the video, Used for auto bandwidth calculation on the pool.*
- SMX36\_VSEBitRateMode\_e [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::BitRateMode](#)  
*Default rate configuration mode manual or automatic.*
- SMX\_VSEBackupState\_e [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::BackupState](#)  
*RO VSE backup state.*
- boolean [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::Enabled](#)  
*Is the VSE to be enabled in the statmux Pool.*
- SMX36\_Video\_Rate\_Mode\_e [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::expectedVideoRateMode](#)  
*new in V11.00 URC:*
- SMX36\_Video\_Rate\_Mode\_e [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::enforcedVideoRateMode](#)  
*RW To enforce the video rate mode expected from the VSE.*
- SMX36\_VSE\_Codec\_e [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::VideoCodecStatus](#)  
*new in V10.20 URC: See V3*
- SMX36\_VSE\_Format\_e [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::VideoFormatStatus](#)  
*RO, status as set on VSE: a way to get valid ranges of min/maxbitrates.*
- SMX36\_VSE\_Codec\_e [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::VideoCodecSetting](#)  
*RW, as set on GUI: a way to get valid ranges of min/maxbitrates and check that VSE is still set as expected.*
- SMX36\_VSE\_Format\_e [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::VideoFormatSetting](#)  
*RW, as set on GUI: a way to get valid ranges of min/maxbitrates and check that VSE is still set as expected.*
- SMX36\_VSEParams\_V2\_t [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t::params](#)  
*Statmux parameters for the VSE.*
- long [DCM::DeviceControl::SMX36\\_VSE\\_CalculatedRates\\_t::Id](#)  
*RO Unique ID of the VSE.*
- unsigned long [DCM::DeviceControl::SMX36\\_VSE\\_CalculatedRates\\_t::DefBitrate](#)  
*RO Calculated Default Rate.*
- boolean [DCM::DeviceControl::SMX36\\_VSE\\_CalculatedRates\\_t::Enabled](#)  
*RO If the VSE is enabled or disabled in the Poollist.*
- long [DCM::DeviceControl::SMX\\_Pool\\_Calculate\\_t::Id](#)  
*RO Pool Id.*
- unsigned long [DCM::DeviceControl::SMX\\_Pool\\_Calculate\\_t::Bandwidth](#)  
*(bps) The bandwidth of the pool (bps). Must be greater than BandwidthOverhead.*
- unsigned long [DCM::DeviceControl::SMX\\_Pool\\_Calculate\\_t::BandwidthOverhead](#)  
*(bps) Overhead/Free-space to the bandwidth used to prevent overshoot on a mux with a small input buffer. must be less than bandwidth*
- string [DCM::DeviceControl::SMX36\\_VSEBackup\\_t::MainEncoderIPAddress](#)  
*Management IP Address of the Main encoder.*
- string [DCM::DeviceControl::SMX36\\_VSEBackup\\_t::MainVSEName](#)  
*VSE Name of the main VSE (max length = 20).*
- string [DCM::DeviceControl::SMX36\\_VSEBackup\\_t::MainVideoStreamEncoderName](#)  
*future Name of the video stream on which the statmuxing is running.*
- string [DCM::DeviceControl::SMX36\\_VSEBackup\\_t::BackupEncoderIPAddress](#)  
*Management IP Address of the Backup encoder.*
- string [DCM::DeviceControl::SMX36\\_VSEBackup\\_t::BackupVSEName](#)

- VSE Name of the Backup VSE (max length = 20).
- string `DCM::DeviceControl::SMX36_VSEBackup_t::BackupVideoStreamEncoderName`  
future Name of the video stream on which the statmuxing is running.
- `SMX36_VSEBackupState_e` `DCM::DeviceControl::SMX36_VSEBackup_t::BackupState`  
State of the configured VSE backup.
- string `DCM::DeviceControl::SMX36_VSEBackup_V2_t::MainEncoderIPAddress`  
Management IP Address of the Main encoder.
- string `DCM::DeviceControl::SMX36_VSEBackup_V2_t::MainVSEName`  
VSE Name of the main VSE (max length = 20).
- string `DCM::DeviceControl::SMX36_VSEBackup_V2_t::MainVideoStreamEncoderName`  
future Name of the video stream on which the statmuxing is running.
- string `DCM::DeviceControl::SMX36_VSEBackup_V2_t::BackupEncoderIPAddress`  
Management IP Address of the Backup encoder.
- string `DCM::DeviceControl::SMX36_VSEBackup_V2_t::BackupVSEName`  
VSE Name of the Backup VSE (max length = 20).
- string `DCM::DeviceControl::SMX36_VSEBackup_V2_t::BackupVideoStreamEncoderName`  
future Name of the video stream on which the statmuxing is running.
- `SMX36_VSEBackupState_V2_e` `DCM::DeviceControl::SMX36_VSEBackup_V2_t::BackupState`  
State of the configured VSE backup.
- string `DCM::DeviceControl::IPSecHost::PeerIPAddress`  
The IP address of the IPsec capable host.
- string `DCM::DeviceControl::IPSecHost::PreSharedKey`  
The preshard key used for setting up IPsec.
- `eExtIpServices` `DCM::DeviceControl::ExtIpServiceCtrl::Service`
- boolean `DCM::DeviceControl::ExtIpServiceCtrl::bEnabled`
- `enPSBSSocketType` `DCM::DeviceControl::IpServiceDisplayData::SckType`  
*Tcp, udp, tcp6, udp6, ...*
- string `DCM::DeviceControl::IpServiceDisplayData::ItfName`  
Interface of listening port, or 'all'.
- string `DCM::DeviceControl::IpServiceDisplayData::LocalIp`  
IP address of local itf or 0.0.0.0 (any)
- string `DCM::DeviceControl::IpServiceDisplayData::RemoteIp`  
Remote IP address or 0.0.0.0 (any)
- unsigned short `DCM::DeviceControl::IpServiceDisplayData::LocalPort`  
Port number of listening port.
- unsigned short `DCM::DeviceControl::IpServiceDisplayData::RemotePort`  
0 or port number in case of established connection
- string `DCM::DeviceControl::IpServiceDisplayData::ProtoName`  
Name of application level protocol if meaningful one exists, e.g. ssh.
- string `DCM::DeviceControl::IpServiceDisplayData::ProcessName`  
Name of process that has opened the port.
- string `DCM::DeviceControl::IpServiceDisplayData::Description`  
Usage description and features that are related.
- unsigned long `DCM::DeviceControl::IpServiceDisplayData::IpSvcProperty`  
Bitmap:
  - unsigned long `DCM::DeviceControl::JclInitialValue_t::Part1`
  - unsigned long `DCM::DeviceControl::JclInitialValue_t::Part2`



- unsigned long [DCM::DeviceControl::JclSystemId\\_t::Part1](#)
- unsigned long [DCM::DeviceControl::JclSystemId\\_t::Part2](#)
- unsigned long [DCM::DeviceControl::JclSystemId\\_t::Part3](#)
- unsigned long [DCM::DeviceControl::JclSystemId\\_t::Part4](#)
- unsigned long [DCM::DeviceControl::JclSystemId\\_t::Part5](#)
- unsigned long [DCM::DeviceControl::JclSystemId\\_t::Part6](#)
- unsigned long [DCM::DeviceControl::JclSystemId\\_t::Part7](#)
- unsigned long [DCM::DeviceControl::JclSystemId\\_t::Part8](#)
- string [DCM::DeviceControl::AC\\_t::Name](#)  
*name of AC (extension to Simulcrypt protocol)*
- ByteStream [DCM::DeviceControl::AC\\_t::Data](#)  
*buffer for AC data (a sequence of chars)*
- unsigned long [DCM::DeviceControl::TierAC\\_t::SuperCasId](#)  
*SuperCasId of CA system.*
- AC\_t [DCM::DeviceControl::TierAC\\_t::AC](#)  
*Access criteria.*
- unsigned long [DCM::DeviceControl::TierData\\_t::TierId](#)  
*Tier identification.*
- string [DCM::DeviceControl::TierData\\_t::TierName](#)  
*Name for tier.*
- sequence< TierAC\_t > [DCM::DeviceControl::TierData\\_t::TierACList](#)  
*Access criteria for tier.*
- IPS\_RefTS\_t [DCM::DeviceControl::TS\\_Tier\\_t::RefTS](#)
- unsigned long [DCM::DeviceControl::TS\\_Tier\\_t::TierId](#)
- DescrId\_t [DCM::DeviceControl::DescrResource\\_t::DescrId](#)  
*"port number" of the descrambler.*
- IPS\_Ref\_t [DCM::DeviceControl::DescrResource\\_t::Ref](#)  
*identification of descrambler in all other functions.*
- eDescrType\_t [DCM::DeviceControl::DescrResource\\_t::eDescrType](#)  
*type of descrambler*
- string [DCM::DeviceControl::DescrResource\\_t::Name](#)  
*user friendly name of the descrambling resource. Default names are assigned by the DCM, e.g. 'CAM 1', 'BISS'.*
- IPS\_RefSvc\_t [DCM::DeviceControl::DescrServiceData\\_t::RefSvc](#)  
*identifies the service on the descrambler*
- ServiceId\_t [DCM::DeviceControl::DescrServiceData\\_t::ServiceID](#)  
*service ID (for future use)*
- DvbString\_t [DCM::DeviceControl::DescrServiceData\\_t::UserTag](#)  
*a human readable user tag for the service. By default equal to the name of the input service, but made unique if necessary by [DescrServiceAddL\(\)](#).*
- unsigned long [DCM::DeviceControl::DescrServiceData\\_t::Property](#)  
*Read only Bitmap used by GUI to display < Bit 0: Service present at input (true) or not (false). < Bit 1: TRUE if service can't be deleted < Bit 2: TRUE if service is scrambled (before descrambling) < Bit 3: TRUE if service is being descrambled by descrambler. < Bit 4: TRUE if service is in backup < Bit 5: TRUE if Service Loss Alarm is active. < Bit 6: TRUE if not-descrambled alarm is active. < Bit 7: TRUE if service is part of a TS in SFN or TS mode. < Other bits for future use.*
- IPS\_Service\_In\_V2\_t [DCM::DeviceControl::DescrServiceData\\_t::MainInputService](#)  
*main input service*

- `IPS_Service_In_V2_t DCM::DeviceControl::DescrServiceData_t::ActiveInputService`  
*active input service, e.g. when in backup*
- `IPS_RefTS_t DCM::DeviceControl::DescrTS_Data_t::RefTs`  
*the TS reference assigned by `DescrTS_Add()`*
- unsigned long `DCM::DeviceControl::DescrTS_Data_t::Property`  
*Read only Bitmap used by GUI to display < Bit 0: TS present at input (true) or not (false). < Bit 1: TRUE if TS can't be deleted < Bit 2: at least one of the source input PIDs of this < TS is scrambled < Bit 3: TRUE if TS Loss Alarm is active. < Other bits for future use.*
- `IPS_RefTS_t DCM::DeviceControl::DescrTS_Data_t::RefInputTs`  
*Read only : Reference to the input TS that was used to create the TS on the descrambler.*
- `IPS_RefTS_t DCM::DeviceControl::DescrTS_Data_t::RefActiveTS`  
*Read only : Reference of the active input TS (for TS backup).*
- `DvbString_t DCM::DeviceControl::DescrTS_Data_t::UserTag`  
*A human readable user tag for the TS. `DescrTS_Add` will assign a unique default value.*
- `IPS_RefTS_t DCM::DeviceControl::DescrTS_Data_V2_t::RefTs`  
*the TS reference assigned by `DescrTS_Add()`*
- unsigned long `DCM::DeviceControl::DescrTS_Data_V2_t::Property`  
*Read only Bitmap used by GUI to display < Bit 0: TS present at input (true) or not (false). < Bit 1: TRUE if TS can't be deleted < Bit 2: at least one of the source input PIDs of this < TS is scrambled < Bit 3: TRUE if TS Loss Alarm is active. < Other bits for future use.*
- `IPS_RefTS_t DCM::DeviceControl::DescrTS_Data_V2_t::RefInputTs`  
*Read only : Reference to the input TS that was used to create the TS on the descrambler.*
- `IPS_RefTS_t DCM::DeviceControl::DescrTS_Data_V2_t::RefActiveTS`  
*Read only : Reference of the active input TS (for TS backup).*
- `DvbString_t DCM::DeviceControl::DescrTS_Data_V2_t::UserTag`  
*A human readable user tag for the TS. `DescrTS_Add` will assign a unique default value.*
- boolean `DCM::DeviceControl::DescrTS_Data_V2_t::TransparentSI`  
*true: pass SI transparently (aka SFN mode) false: update SI (PMT, SDT, EIT) if descrambled (aka SI mode) default value is true*
- `TrackingCriterium_t DCM::DeviceControl::DescrTrackingRule_t::TrackingCriterium`
- `ByteStream DCM::DeviceControl::DescrTrackingRule_t::EvenSessionWord`  
*session word for BISS descrambling with even parity.*
- `ByteStream DCM::DeviceControl::DescrTrackingRule_t::OddSessionWord`  
*session word for BISS descrambling with odd parity.*
- `IPS_RefSvc_t DCM::DeviceControl::DescrSvcConfig_t::RefSvc`  
*identifies the virtual service*
- `eDescrEnabledMode_t DCM::DeviceControl::DescrSvcConfig_t::eEnabled`  
*identifies if and how descrambling must be done*
- boolean `DCM::DeviceControl::DescrSvcConfig_t::bCamBuTrigger`  
*true: when not descrambled, this service*
- `ByteStream DCM::DeviceControl::DescrSvcConfig_t::EvenSessionWord`  
*session word for BISS with even parity.*
- `ByteStream DCM::DeviceControl::DescrSvcConfig_t::OddSessionWord`  
*session word for BISS with odd parity.*
- `DescrTrackingRuleList_t DCM::DeviceControl::DescrSvcConfig_t::Components`  
*non-empty if component level descrambling*
- `IPS_Ref_t DCM::DeviceControl::DescrCAM_Cfg_t::CamRef`  
*CAM identification.*

- boolean `DCM::DeviceControl::DescrCAM_Cfg_t::bEnabledSetting`  
*true: enable CAM. requires a license to enable.*
- boolean `DCM::DeviceControl::DescrCAM_Cfg_t::bEnabledStatus`  
*readonly enabled status. Can be different from enabled setting if e.g. after reboot the necessary licenses are missing.*
- boolean `DCM::DeviceControl::DescrCAM_Cfg_t::bResetOnFailure`  
*true: reset CAM if descrambling fails on all services False: do not reset. Default value is true.*
- unsigned short `DCM::DeviceControl::DescrCAM_Cfg_t::MaxBitRate`  
*In Mbps. Range: 72 .. 200. Default: 72.*
- IPS\_Ref\_t `DCM::DeviceControl::DescrCAM_Cfg_V2_t::CamRef`  
*CAM identification.*
- boolean `DCM::DeviceControl::DescrCAM_Cfg_V2_t::bEnabledSetting`  
*true: enable CAM. requires a license to enable.*
- boolean `DCM::DeviceControl::DescrCAM_Cfg_V2_t::bEnabledStatus`  
*readonly enabled status. Can be different from enabled setting if e.g. after reboot the necessary licenses are missing.*
- boolean `DCM::DeviceControl::DescrCAM_Cfg_V2_t::bResetOnFailure`  
*true: reset CAM if descrambling fails on all services False: do not reset. Default value is true.*
- unsigned short `DCM::DeviceControl::DescrCAM_Cfg_V2_t::MaxBitRate`  
*In Mbps. Range: 72 .. 200. Default: 72.*
- eCaPmtListManagement\_t `DCM::DeviceControl::DescrCAM_Cfg_V2_t::CaPmtListManagement`  
*CA PMT list management for updates towards CAM.*
- IPS\_Ref\_t `DCM::DeviceControl::DescrCAM_BackupCfg_t::MainCAM`  
*reference of the main CAM*
- boolean `DCM::DeviceControl::DescrCAM_BackupCfg_t::bEnabled`  
*true: backup enabled, false: backup disabled*
- IPS\_Ref\_t `DCM::DeviceControl::DescrCAM_BackupCfg_t::BackupCAM`  
*reference of the backup CAM*
- IPS\_Ref\_t `DCM::DeviceControl::DescrCAM_BackupCfg_t::ActiveCAM`  
*active CAM (can also be used to revert to MAIN CAM)*
- unsigned long `DCM::DeviceControl::DescrCAM_BackupCfg_t::BackupDelay`  
*delay to switch from a failing CAM to the backup*
- unsigned long `DCM::DeviceControl::DescrCAM_BackupCfg_t::BackupTrigger`  
*bitmap containing the backup triggers. Bit0: service not descrambled. other bits for future use.*
- IPS\_Ref\_t `DCM::DeviceControl::DescrCAM_Status_t::CamRef`  
*CAM identification.*
- boolean `DCM::DeviceControl::DescrCAM_Status_t::bReady`  
*initialized and ready for descrambling*
- string `DCM::DeviceControl::DescrCAM_Status_t::SystemName`  
*system name*
- unsigned short `DCM::DeviceControl::DescrCAM_Status_t::ManufacturerId`  
*manufacturer id*
- unsigned short `DCM::DeviceControl::DescrCAM_Status_t::ManufactureCode`  
*manufacture code*
- string `DCM::DeviceControl::DescrCAM_Status_t::CamSerialNr`  
*CAM serial number.*
- sequence< string > `DCM::DeviceControl::DescrCAM_Status_t::CaSystemId`

- supported CA System Ids*

  - string `DCM::DeviceControl::DescrCAM_Status_t::HwVersion`  
*CAM hardware version.*
  - string `DCM::DeviceControl::DescrCAM_Status_t::AppVersion`  
*CAM software version.*
  - string `DCM::DeviceControl::DescrCAM_Status_t::CompanyName`  
*CAM company name.*
  - string `DCM::DeviceControl::DescrCAM_Status_t::ProductName`  
*CAM product name.*
- IPS\_RefTS\_t `DCM::DeviceControl::DescrBISS_Cfg_t::RefTS`  
*reference of the TS on the BISS descrambler.*
- ByteStream `DCM::DeviceControl::DescrBISS_Cfg_t::EvenSessionWord`  
*session word for BISS descrambling with even parity.*
- ByteStream `DCM::DeviceControl::DescrBISS_Cfg_t::OddSessionWord`  
*session word for BISS descrambling with odd parity.*
- unsigned long `DCM::DeviceControl::EasConfig_t::EasId`  
*Identifies the EAS proxy.*
- IPS\_Ref\_t `DCM::DeviceControl::EasConfig_t::NetworkInterface`  
*Specify BoardNr = 0 and PortNr = 0 for the 10/100 management network interface and PortNr = 1 for the GbE CA network interface.*
- unsigned short `DCM::DeviceControl::EasConfig_t::UdpPort`  
*UDP port number the EAS proxy is listening on. When not yet yet configured UdpPort will be 0, meaning that the EAS proxy is not listening on a socket. UdpPorts are unique per network interface.*
- string `DCM::DeviceControl::EasConfig_t::Name`  
*a user friendly name identifying the proxy. Names must be unique. Upper/lower case and white space are ignored in the uniqueness check.*
- IPS\_RefTS\_t `DCM::DeviceControl::EasConfig_t::RefTs`  
*(Read-only) TS reference assigned to the newly created EAS proxy. This TS reference is to be used in the the SetSI\_Generation call. Note: the client SW should not make any assumptions on how the RefTs is generated. The only assurance is that the same RefTs will be assigned after a reboot.*
- enumEasProtocol\_t `DCM::DeviceControl::EasConfig_t::Protocol`  
*protocol used by EAS proxy.*
- boolean `DCM::DeviceControl::EasConfig_t::bTextCrawl`  
*enable participation of the proxy in text crawl generation.*
- enumEasSocketType\_t `DCM::DeviceControl::EasConfig_t::eSocketType`  
*the type of socket. In case of multicast, also the IP\_Addr field must be filled in.*
- string `DCM::DeviceControl::EasConfig_t::IP_Addr`  
*IP address in case of multicast.*
- unsigned short `DCM::DeviceControl::EasConfig_t::UsageBitmap`  
*(Read-only) bitmap showing the I/O boards using the proxy. bit0 = main board, bit1 = I/O board 1, bit2 = I/O board 2, etc.*
- enGPS\_ClockImpedance `DCM::DeviceControl::GPS_Settings_t::eGPS_1PPS_Impedance`
- enGPS\_ClockImpedance `DCM::DeviceControl::GPS_Settings_t::eGPS_10MHz_Impedance`
- enGPS\_1PPS\_SliceLevel `DCM::DeviceControl::GPS_Settings_t::eGPS_1PPS_SliceLevel`
- unsigned long `DCM::DeviceControl::GPS_Settings_t::ui1PPS_SliceLevel`  
*value in mV, range 0..5000mV, steps of 50mV*
- enGPS\_1PPS\_Edge `DCM::DeviceControl::GPS_Settings_t::eGPS_1PPS_Edge`
- enGPS\_10MHz\_Invert `DCM::DeviceControl::GPS_Settings_t::eGPS_10MHz_Invert`

- unsigned long [DCM::DeviceControl::MIP\\_Settings\\_t::uiMaximumDelay](#)  
*value in 100ns, range 0..1s*
- enConstellation [DCM::DeviceControl::MIP\\_Settings\\_t::eConstellation](#)
- enHierarchyAndInterleaving [DCM::DeviceControl::MIP\\_Settings\\_t::eHierarchyAndInterleaving](#)
- enCodeRate [DCM::DeviceControl::MIP\\_Settings\\_t::eCodeRate](#)
- enGuardInterval [DCM::DeviceControl::MIP\\_Settings\\_t::eGuardInterval](#)
- enFFT\_Mode [DCM::DeviceControl::MIP\\_Settings\\_t::eFFT\\_Mode](#)
- enChannelBandwidth [DCM::DeviceControl::MIP\\_Settings\\_t::eChannelBandwidth](#)
- enTS\_Priority [DCM::DeviceControl::MIP\\_Settings\\_t::eTS\\_Priority](#)
- enDVB\_H\_Timeslicing [DCM::DeviceControl::MIP\\_Settings\\_t::eDVB\\_H\\_Timeslicing](#)
- enDVB\_H\_MPE\_FEC [DCM::DeviceControl::MIP\\_Settings\\_t::eDVB\\_H\\_MPE\\_FEC](#)
- boolean [DCM::DeviceControl::GPS\\_Status\\_t::bStatus10MHz](#)
- boolean [DCM::DeviceControl::GPS\\_Status\\_t::bStatus1PPS](#)
- unsigned short [DCM::DeviceControl::GPS\\_Status\\_t::us1PpsLevelMin](#)
- unsigned short [DCM::DeviceControl::GPS\\_Status\\_t::us1PpsLevelMax](#)
- unsigned short [DCM::DeviceControl::GPS\\_Status\\_t::us1PpsLevelSlice](#)
- boolean [DCM::DeviceControl::PacketIndexerSettings\\_t::PI\\_Enabled](#)
- unsigned short [DCM::DeviceControl::PacketIndexerSettings\\_t::PI\\_MaxInterval](#)  
*range 100..1000ms, in steps of 10ms*
- boolean [DCM::DeviceControl::IPI\\_Settings\\_t::IPI\\_Enabled](#)
- boolean [DCM::DeviceControl::IPI\\_Settings\\_t::FollowDefaultRule](#)  
*readonly flag indicating if default priority bit settings are used*
- IPS\_RefTS\_t [DCM::DeviceControl::InTS\\_IPI\\_Settings\\_t::RefTsIn](#)
- IPI\_Settings\_t [DCM::DeviceControl::InTS\\_IPI\\_Settings\\_t::IPI\\_Settings](#)
- boolean [DCM::DeviceControl::TsPacketIndexerID\\_Data\\_t::TsPacketIndexerID\\_Valid](#)
- unsigned short [DCM::DeviceControl::TsPacketIndexerID\\_Data\\_t::TsPacketIndexerID](#)
- unsigned short [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_MDP\\_MultiplicationSettings\\_t::MDP\\_Multiplication-Factor](#)  
*Range 1..4, in steps of 1.*
- unsigned short [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_MDP\\_MultiplicationSettings\\_t::MDP\\_Multiplication-Delay](#)  
*Range 1--100 ms, in steps of 1.*
- unsigned short [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_RDCS\\_Settings\\_t::Delay](#)  
*Range 10--100 ms, in steps of 1.*
- unsigned short [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_RDCS\\_Settings\\_t::MDP\\_ExtensionInterval](#)  
*Range 10--1000 ms, in steps of 1.*
- unsigned short [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_RDCS\\_Settings\\_t::MDP\\_DiscontinuityDetection-Timeout](#)  
*Range 10--1000 ms, in steps of 1.*
- ASI\_SFN\_MKII\_MDP\_MultiplicationSettings\_t [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_RDCS\\_Settings\\_t::MDP\\_MultiplicationSettings](#)
- unsigned short [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_RDCS\\_Settings\\_t::CRSP\\_Interval](#)  
*Range 10--1000 ms, in steps of 1.*
- unsigned short [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_RDCS\\_Settings\\_t::CYTS\\_Delay](#)  
*Range 5--100 ms, in steps of 1.*
- enASI\_SFN\_MKII\_TS\_Output\_Mode [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_TS\\_Output\\_Mode-t::eTS\\_Output\\_Mode](#)  
*Type of TS.*

- unsigned short [DCM::DeviceControl::ASI\\_SF\\_N\\_MKII\\_TS\\_Output\\_Mode\\_t::uTS\\_Output\\_RDCS](#)  
*RDCS TS number if eTS\_Output\_Mode is eTS\_Output\_Main and RDCS < Range 0..7, in steps of 1.*
- IPS\_RefTS\_t [DCM::DeviceControl::DCG\\_InputTS\\_t::RefIn](#)  
*The location of the TS (Board, Port and Ref).*
- unsigned long [DCM::DeviceControl::DCG\\_InputTS\\_t::TS\\_InProperty](#)  
*Read only Bitmap used by GUI to display specific icons.*
- eVideoFormat\_t [DCM::DeviceControl::DCG\\_InputTS\\_t::ExpectedVideoFormat](#)
- string [DCM::DeviceControl::DCG\\_InputTS\\_t::UserName](#)
- DCG\_InputTS\_t [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_t::Common](#)
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_t::Socket](#)  
*Unique IP-Address and UDP port combination.*
- short [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_t::VideoLineOffset](#)  
*between plus and minus 10 (default = 0)*
- short [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_t::VideoPixelOffset](#)  
*between plus and minus 432(SD)/1320(HD) (default = 0)*
- unsigned short [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_t::DejitterBufferSize](#)  
*in ms < For uncompressed: Between 7 and 200 (default 25) < For compressed: Between 1 and 200 (default 25) < Prior to version 10.10: Between 10 and 200 (default 25)*
- DCG\_InputTS\_t [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V2\\_t::Common](#)
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V2\\_t::Socket](#)  
*Unique IP-Address and UDP port combination.*
- eTxClockingMode\_t [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V2\\_t::TxClockMode](#)
- short [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V2\\_t::VideoLineOffset](#)
- short [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V2\\_t::VideoPixelOffset](#)
- unsigned short [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V2\\_t::DejitterBufferSize](#)  
*in ms < For uncompressed: Between 7 and 200 (default 25) < For compressed: Between 1 and 200 (default 25) < Prior to version 10.10: Between 10 and 200 (default 25)*
- DCG\_InputTS\_t [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V3\\_t::Common](#)
- IPS\_UDP\_Socket\_t [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V3\\_t::Socket](#)  
*Unique IP-Address and UDP port combination.*
- eTxClockingMode\_t [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V3\\_t::TxClockMode](#)
- long [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V3\\_t::VideoOffsetDelay](#)  
*For Video Gateway: Unit is nanos, ranging from -10000000 to 10000000 in increments of 5 ns. < For Audio Gateway: Unit is frames, ranging from 0 to 191 in increments of 1 frame.*
- unsigned short [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V3\\_t::DejitterBufferSize](#)  
*in ms < For Audio Gateway: Between 10 and 200 (default 25) < For uncompressed: Between 7 and 200 (default 25) < For compressed: Between 1 and 200 (default 25) < Prior to version 10.10: Between 10 and 200 (default 25)*
- IPS\_RefTS\_t [DCM::DeviceControl::DCG\\_OutputTS\\_t::Ref](#)  
*The location of the TS (Board, Port and Ref).*
- unsigned long [DCM::DeviceControl::DCG\\_OutputTS\\_t::Bitrate](#)  
*Bitrate of the outgoing TS (in bps).*
- eDCG\_StreamingState [DCM::DeviceControl::DCG\\_OutputTS\\_t::State](#)
- unsigned long [DCM::DeviceControl::DCG\\_OutputTS\\_t::TS\\_OutProperty](#)  
*Read only Bitmap used by GUI to display specific icons < Bit 3: TRUE if RTP is streamed < Bit 4: TRUE if VLAN is enabled < Bit 5: TRUE if VBR is enabled < Bit 6: TRUE if Stream is routed < Bit 7: TRUE if Stream is present at input < Bit 9: TRUE if FEC column stream is enabled < Bit 10: TRUE if FEC row stream is enabled < Bit 11: TRUE if Stream is in Backup.*
- boolean [DCM::DeviceControl::DCG\\_OutputTS\\_t::FollowUserNameOfInputStream](#)



- string `DCM::DeviceControl::DCG_OutputTS_t::UserName`
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_OutputTS_t::ConfiguredRefIn`
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_OutputTS_t::ActiveRefIn`
- `DCG_OutputTS_t` `DCM::DeviceControl::DCG_OutputRTP_Stream_t::Common`
- `IPS_UDP_Socket_t` `DCM::DeviceControl::DCG_OutputRTP_Stream_t::Socket`  
*Unique destination IP-Address and UDP port combination.*
- `DCG_OutputTS_t` `DCM::DeviceControl::DCG_OutputRTP_V2_Stream_t::Common`
- `eGbePortType_t` `DCM::DeviceControl::DCG_OutputRTP_V2_Stream_t::GbePortType`
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_OutputGBE_t::RefTs`
- unsigned long `DCM::DeviceControl::DCG_OutputGBE_t::Property`  
*Bit 0: if VLAN enabled < Bit 1: if stream is present at output.*
- `IPS_UDP_Socket_t` `DCM::DeviceControl::DCG_OutputGBE_t::Socket`  
*Destination UDP socket.*
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_OutputFecGBE_t::RefTS`
- `IPS_UDP_Socket_t` `DCM::DeviceControl::DCG_OutputFecGBE_t::row`  
*Destination UDP socket for FEC ROW.*
- `IPS_UDP_Socket_t` `DCM::DeviceControl::DCG_OutputFecGBE_t::col`  
*Destination UDP socket for FEC COL.*
- `IPS_RefTS_t` `DCM::DeviceControl::RoutingData_t::RefOut`
- `IPS_RefTS_t` `DCM::DeviceControl::RoutingData_t::RefIn`
- `IPS_RefTS_t` `DCM::DeviceControl::VideoSignalInfo_t::RefIn`
- `eFrameRate_t` `DCM::DeviceControl::VideoSignalInfo_t::FrameRate`
- unsigned long `DCM::DeviceControl::VideoSignalInfo_t::SignalRate`
- unsigned long `DCM::DeviceControl::VideoSignalInfo_t::VideoBitrate`
- unsigned short `DCM::DeviceControl::VideoSignalInfo_t::NbrOfAudios`
- boolean `DCM::DeviceControl::VideoSignalInfo_t::bJPEG2000`
- `eVideoFormat_t` `DCM::DeviceControl::VideoSignalInfo_t::VideoFormat`
- `eAspectRatio_t` `DCM::DeviceControl::VideoSignalInfo_t::AspectRatio`
- unsigned long `DCM::DeviceControl::VideoSignalInfo_t::NbrOfLinesPerFrame`
- `eFrameBuildUp_t` `DCM::DeviceControl::VideoSignalInfo_t::FrameBuildUp`
- `IPS_RefTS_t` `DCM::DeviceControl::End2End_Delay_t::RefOut`
- unsigned long `DCM::DeviceControl::End2End_Delay_t::Delay`
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_3D_pair_t::left`
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_3D_pair_t::right`
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_GeneratorConfig_t::GeneratorRef`
- boolean `DCM::DeviceControl::DCG_GeneratorConfig_t::GenEnabled`
- `eSDI_GeneratorMode_t` `DCM::DeviceControl::DCG_GeneratorConfig_t::Mode`
- `eSDI_ColorOutputMode_t` `DCM::DeviceControl::DCG_GeneratorConfig_t::ColorOutputMode`  
*only Static mode supported*
- unsigned long `DCM::DeviceControl::DCG_GeneratorConfig_t::GenPropertyBits`  
*Future use.*
- octet `DCM::DeviceControl::DCG_GeneratorConfig_t::RedColorValue`
- octet `DCM::DeviceControl::DCG_GeneratorConfig_t::GreenColorValue`
- octet `DCM::DeviceControl::DCG_GeneratorConfig_t::BlueColorValue`
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_AES_GeneratorConfig_t::GeneratorRef`
- boolean `DCM::DeviceControl::DCG_AES_GeneratorConfig_t::bGenEnabled`
- `eAES_SampleRate_t` `DCM::DeviceControl::DCG_AES_GeneratorConfig_t::eSampleRate`
- `eAES_WaveMode_t` `DCM::DeviceControl::DCG_AES_GeneratorConfig_t::eWaveMode`
- `eAES_WaveModeDetail_t` `DCM::DeviceControl::DCG_AES_GeneratorConfig_t::eWaveModeDetail`

- unsigned long `DCM::DeviceControl::DCG_AES_GeneratorConfig_t::iGenPropertyBits`  
*Future use.*
- `IPS_Ref_t DCM::DeviceControl::NegotiatedGbePortSpeed_t::RefPhys`  
*port identifier*
- `eNegotiatedGbePortSpeed_t DCM::DeviceControl::NegotiatedGbePortSpeed_t::ePortSpeed`
- `IPS_RefTS_t DCM::DeviceControl::InTS_Statistic_t::RefIn`
- unsigned long `DCM::DeviceControl::InTS_Statistic_t::crc_edh_1min`
- unsigned long `DCM::DeviceControl::InTS_Statistic_t::crc_edh_1hour`
- unsigned long `DCM::DeviceControl::InTS_Statistic_t::crc_edh_1day`
- `IPS_RefTS_t DCM::DeviceControl::InTS_AES_Statistic_t::RefIn`  
*Reference of input.*
- unsigned long `DCM::DeviceControl::InTS_AES_Statistic_t::pb_1min`  
*AES parity errors over the last minute.*
- unsigned long `DCM::DeviceControl::InTS_AES_Statistic_t::pb_1hour`  
*AES parity errors over the last hour.*
- unsigned long `DCM::DeviceControl::InTS_AES_Statistic_t::pb_1day`  
*AES parity errors over the last day.*
- unsigned long `DCM::DeviceControl::InTS_AES_Statistic_t::crc_ch_status_ch0_1min`  
*AES channel 0 channel status CRC errors over the last minute.*
- unsigned long `DCM::DeviceControl::InTS_AES_Statistic_t::crc_ch_status_ch0_1hour`  
*AES channel 0 channel status CRC errors over the last hour.*
- unsigned long `DCM::DeviceControl::InTS_AES_Statistic_t::crc_ch_status_ch0_1day`  
*AES channel 0 channel status CRC errors over the last day.*
- unsigned long `DCM::DeviceControl::InTS_AES_Statistic_t::crc_ch_status_ch1_1min`  
*AES channel 0 channel status CRC errors over the last minute.*
- unsigned long `DCM::DeviceControl::InTS_AES_Statistic_t::crc_ch_status_ch1_1hour`  
*AES channel 0 channel status CRC errors over the last hour.*
- unsigned long `DCM::DeviceControl::InTS_AES_Statistic_t::crc_ch_status_ch1_1day`  
*AES channel 0 channel status CRC errors over the last day.*
- `IPS_RefTS_t DCM::DeviceControl::DCG_StreamBackupParams_t::Ref`
- `eDCG_StreamBackupMode_t DCM::DeviceControl::DCG_StreamBackupParams_t::BU_Mode`
- unsigned long `DCM::DeviceControl::DCG_StreamBackupParams_t::HighToLowPriorityDelay`
- unsigned long `DCM::DeviceControl::DCG_StreamBackupParams_t::LowToHighPriorityDelay`
- `IPS_RefTS_t DCM::DeviceControl::DCG_BackupStream_t::OutRef`
- `IPS_RefTS_t DCM::DeviceControl::DCG_BackupStream_t::BackupStream`
- boolean `DCM::DeviceControl::DCG_Possible3GBoardCfg_t::isPossible`  
*Is it possible to apply this board configuration.*
- `enDCG_3G_Topology_t DCM::DeviceControl::DCG_Possible3GBoardCfg_t::Cfg_3G`
- `DCG_AudioID_t DCM::DeviceControl::DCG_AudioPairInfo_t::AudioPairId`
- boolean `DCM::DeviceControl::DCG_AudioPairInfo_t::AudioPairEnable`
- boolean `DCM::DeviceControl::DCG_AudioPairInfo_t::AudioPairPresent`
- `enDCG_AudioResolution_t DCM::DeviceControl::DCG_AudioPairInfo_t::AudioResolution`
- unsigned long `DCM::DeviceControl::DCG_AudioPairInfo_t::AudioSampleRate`
- unsigned long `DCM::DeviceControl::DCG_AudioPairInfo_t::AudioBitRate`
- `enDCG_AudioStatus_t DCM::DeviceControl::DCG_AudioPairInfo_t::StatusRightCh`
- `enDCG_AudioStatus_t DCM::DeviceControl::DCG_AudioPairInfo_t::StatusLeftCh`
- `IPS_RefTS_t DCM::DeviceControl::DCG_AudioSignalInfo_t::RefIn`  
*Reference of input stream.*



- boolean `DCM::DeviceControl::DCG_AudioSignalInfo_t::Valid`  
*Valid status.*
- unsigned long `DCM::DeviceControl::DCG_AudioSignalInfo_t::SampleRate`  
*Sample rate (Hz)*
- unsigned long `DCM::DeviceControl::DCG_AudioSignalInfo_t::Bitrate`  
*Bitrate of audio signal (bit/s), future!*
- `enDCG_AudioResolution_t` `DCM::DeviceControl::DCG_AudioSignalInfo_t::LeftChCoding`  
*Resolution of audio left channel.*
- `enDCG_AudioResolution_t` `DCM::DeviceControl::DCG_AudioSignalInfo_t::RightChCoding`  
*Resolution of audio right channel.*
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_CompressionEnable_t::VideoRef`
- `enDCG_CompressionMode_t` `DCM::DeviceControl::DCG_CompressionEnable_t::CompressMode`
- `DCG_VBI_Lines_t` `DCM::DeviceControl::DCG_VBI_Defs_t::TransperentLines525f1`
- `DCG_VBI_Lines_t` `DCM::DeviceControl::DCG_VBI_Defs_t::TransperentLines525f2`
- `DCG_VBI_Lines_t` `DCM::DeviceControl::DCG_VBI_Defs_t::TransperentLines625f1`
- `DCG_VBI_Lines_t` `DCM::DeviceControl::DCG_VBI_Defs_t::TransperentLines625f2`
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_JP2K_params_t::VideoRef`
- `enDCG_JP2K_CompressionMode_t` `DCM::DeviceControl::DCG_JP2K_params_t::CompressMode`
- unsigned long `DCM::DeviceControl::DCG_JP2K_params_t::VideoRate`
- unsigned short `DCM::DeviceControl::DCG_JP2K_params_t::ChromaWeight`
- unsigned long `DCM::DeviceControl::DCG_JP2K_params_t::MaxStreamBitRate`
- `DCG_AudioPairInfo_List_t` `DCM::DeviceControl::DCG_JP2K_params_t::AudioSettings`
- boolean `DCM::DeviceControl::DCG_JP2K_params_t::bEnableVITC`
- boolean `DCM::DeviceControl::DCG_JP2K_params_t::bEnableVII`
- boolean `DCM::DeviceControl::DCG_JP2K_params_t::bEnableAFD`
- boolean `DCM::DeviceControl::DCG_JP2K_params_t::bEnableTeleText`
- boolean `DCM::DeviceControl::DCG_JP2K_params_t::bEnableClosedCaption`
- `DCG_VBI_Defs_t` `DCM::DeviceControl::DCG_JP2K_params_t::VBISettings`
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_JP2K_params_V2_t::VideoRef`
- `enDCG_JP2K_CompressionMode_t` `DCM::DeviceControl::DCG_JP2K_params_V2_t::CompressMode`
- unsigned long `DCM::DeviceControl::DCG_JP2K_params_V2_t::VideoRate`
- unsigned short `DCM::DeviceControl::DCG_JP2K_params_V2_t::ChromaWeight`
- unsigned long `DCM::DeviceControl::DCG_JP2K_params_V2_t::MaxStreamBitRate`
- `DCG_AudioPairInfo_List_t` `DCM::DeviceControl::DCG_JP2K_params_V2_t::AudioSettings`
- boolean `DCM::DeviceControl::DCG_JP2K_params_V2_t::bEnableVITC`
- boolean `DCM::DeviceControl::DCG_JP2K_params_V2_t::bEnableVII`
- boolean `DCM::DeviceControl::DCG_JP2K_params_V2_t::bEnableAFD`
- boolean `DCM::DeviceControl::DCG_JP2K_params_V2_t::bEnableTeleText`
- boolean `DCM::DeviceControl::DCG_JP2K_params_V2_t::bEnableClosedCaption`
- `DCG_VBI_Defs_t` `DCM::DeviceControl::DCG_JP2K_params_V2_t::VBISettings`
- boolean `DCM::DeviceControl::DCG_JP2K_params_V2_t::bEnableVPS`
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_JP2K_params_V3_t::VideoRef`
- `enDCG_JP2K_CompressionMode_t` `DCM::DeviceControl::DCG_JP2K_params_V3_t::CompressMode`
- unsigned long `DCM::DeviceControl::DCG_JP2K_params_V3_t::VideoRate`
- unsigned short `DCM::DeviceControl::DCG_JP2K_params_V3_t::ChromaWeight`
- unsigned long `DCM::DeviceControl::DCG_JP2K_params_V3_t::MaxStreamBitRate`
- `DCG_AudioPairInfo_List_t` `DCM::DeviceControl::DCG_JP2K_params_V3_t::AudioSettings`
- boolean `DCM::DeviceControl::DCG_JP2K_params_V3_t::bEnableVITC`
- boolean `DCM::DeviceControl::DCG_JP2K_params_V3_t::bEnableVII`

- boolean `DCM::DeviceControl::DCG_JP2K_params_V3_t::bEnableAFD`
- boolean `DCM::DeviceControl::DCG_JP2K_params_V3_t::bEnableTeleText`
- boolean `DCM::DeviceControl::DCG_JP2K_params_V3_t::bEnableClosedCaption`
- `DCG_VBI_Defs_t` `DCM::DeviceControl::DCG_JP2K_params_V3_t::VBISettings`
- boolean `DCM::DeviceControl::DCG_JP2K_params_V3_t::bEnableVPS`
- boolean `DCM::DeviceControl::DCG_JP2K_params_V3_t::bSDI20BitAudio`
- `IPS_RefTS_t` `DCM::DeviceControl::DCG_HitlessSwitchOverEnable_t::VideoRef`
- `enDCG_HitlessSwitchOverMode_t` `DCM::DeviceControl::DCG_HitlessSwitchOverEnable_t::hitless-SwitchOverMode`
- unsigned long `DCM::DeviceControl::DCG_HitlessSwitchOverEnable_t::RtpPacketsWindow`
- unsigned long `DCM::DeviceControl::DCG_HitlessSwitchOverEnable_t::delay`
- unsigned short `DCM::DeviceControl::GPI_Settings_t::Number`  
*gpi pin number (1 to 5)*
- string `DCM::DeviceControl::GPI_Settings_t::Name`  
*name of the gpi pin indicating the function*
- `eGPI_IO_t` `DCM::DeviceControl::GPI_Settings_t::Direction`  
*gpi pin direction*
- `eGPI_Assert_t` `DCM::DeviceControl::GPI_Settings_t::Assert`  
*gpi assert level*
- boolean `DCM::DeviceControl::GPI_Settings_t::Enabled`  
*gpi contact enabled if true*
- boolean `DCM::DeviceControl::GPI_StatusControl_t::SettingsChanged`  
*gpi pin configuration changed*
- unsigned short `DCM::DeviceControl::GPI_StatusControl_t::Number`  
*gpi pin number*
- unsigned short `DCM::DeviceControl::GPI_StatusControl_t::Status`  
*current gpi pin status (readout pin)*
- unsigned short `DCM::DeviceControl::GPI_StatusControl_t::Control`  
*current gpi pin control (drive pin)*
- unsigned long `DCM::DeviceControl::GPI_StatusControl_t::TimeStamp`  
*gpi local timestamp, changed status (seconds since 00:00:00 UTC, January 1, 1970)*
- unsigned long `DCM::DeviceControl::GPI_StatusControl_t::TimeStampOffset`  
*offset in microseconds since TimeStamp*
- unsigned long `DCM::DeviceControl::ScriptEntry_t::ScriptId`  
*The Id assigned to this script.*
- string `DCM::DeviceControl::ScriptEntry_t::ScriptName`  
*The unique name of the script.*
- unsigned short `DCM::DeviceControl::ScriptEntry_t::ScriptVersion`  
*The version of the script, several versions of the same script can be installed.*
- boolean `DCM::DeviceControl::ScriptEntry_t::Running`  
*Whether script is currently running.*
- boolean `DCM::DeviceControl::ScriptEntry_t::AutoRun`  
*Whether the script will be automatically run on startup.*
- boolean `DCM::DeviceControl::RipSettings_t::Enabled`  
*Whether RIP is enabled by default for new TS's.*
- unsigned short `DCM::DeviceControl::RipSettings_t::NormalMetric`  
*RIP metric to be advertised when TS is streaming and in good shape. Range [1,16], default 1.*

- unsigned short [DCM::DeviceControl::RipSettings\\_t::AlarmMetric](#)  
*RIP metric to be advertised when TS is not streaming or in bad shape. Range [1,16], default 16.*
- unsigned short [DCM::DeviceControl::RipSettings\\_t::RouteTag](#)  
*Value for the Route tag field. Range [0, 65535], default 0.*
- [RipSettings\\_t](#) [DCM::DeviceControl::RipBoardSettings::Defaults](#)
- unsigned short [DCM::DeviceControl::RipBoardSettings::UpdateInterval](#)  
*Update interval for RIP messages. Effective interval. Range [1, 300], default 30.*
- unsigned short [DCM::DeviceControl::RipBoardSettings::HoldTimeout](#)  
*Time to keep advertising alarm metric after TS Loss cleared or TS removed/stopped streaming. Range [1, 1800], default 180.*
- [IPS\\_Ref\\_t](#) [DCM::DeviceControl::RipInterfaceSettings::PortRef](#)  
*PhysRef of physical/virtual interface.*
- string [DCM::DeviceControl::RipInterfaceSettings::RouterAddress](#)  
*Router address, one of [224.0.0.9, 224.0.0.2, 255.255.255.255, unicast address in subnet], default 224.0.0.-9.*
- [IPS\\_RefTS\\_t](#) [DCM::DeviceControl::RipTsSettings\\_t::TSRef](#)  
*TSRef of TS.*
- [RipSettings\\_t](#) [DCM::DeviceControl::RipTsSettings\\_t::Settings](#)
- [IPS\\_RefTS\\_t](#) [DCM::DeviceControl::OutputTsLossTriggerPerTs\\_t::TSRef](#)  
*TSRef of TS.*
- [OutputTsLossTrigger\\_t](#) [DCM::DeviceControl::OutputTsLossTriggerPerTs\\_t::Trigger](#)  
*Trigger configuration for Output TS Loss.*
- [IPS\\_RefTS\\_t](#) [DCM::DeviceControl::OutputTsLossTriggerBitmapPerTs\\_t::TSRef](#)  
*TSRef of TS.*
- [OutputTsLossTriggerBitmap\\_t](#) [DCM::DeviceControl::OutputTsLossTriggerBitmapPerTs\\_t::Trigger-  
Bitmap](#)  
*Trigger bitmap configuration for Output TS Loss.*
- unsigned long [DCM::DCM\\_Notifications::Messages::MainID](#)
- unsigned long [DCM::DCM\\_Notifications::Messages::BoardNr](#)
- unsigned long [DCM::DCM\\_Notifications::Messages::PortNr](#)
- unsigned long [DCM::DCM\\_Notifications::Messages::Ref](#)
- unsigned long [DCM::DCM\\_Notifications::Messages::SubID1](#)
- unsigned long [DCM::DCM\\_Notifications::Messages::SubID2](#)
- unsigned long [DCM::DCM\\_Notifications::Messages::MessageNumber](#)
- unsigned long [DCM::DCM\\_Notifications::DCM\\_TsIdOnIdChange::bOnlyScramblingTS](#)  
*boolean to notify only TS's with licenses are reported*
- unsigned long [DCM::DCM\\_Notifications::DCM\\_TsIdOnIdChange::BoardNr](#)
- unsigned long [DCM::DCM\\_Notifications::DCM\\_TsIdOnIdChange::PortNr](#)
- unsigned long [DCM::DCM\\_Notifications::DCM\\_TsIdOnIdChange::Ref](#)
- unsigned long [DCM::DCM\\_Notifications::DCM\\_TsIdOnIdChange::OldOnId](#)
- unsigned long [DCM::DCM\\_Notifications::DCM\\_TsIdOnIdChange::NewOnId](#)
- unsigned long [DCM::DCM\\_Notifications::DCM\\_TsIdOnIdChange::OldTsId](#)
- unsigned long [DCM::DCM\\_Notifications::DCM\\_TsIdOnIdChange::NewTsId](#)
- unsigned long [DCM::DCM\\_Notifications::Output\\_TS\\_Change::BoardNr](#)
- unsigned long [DCM::DCM\\_Notifications::Output\\_TS\\_Change::PortNr](#)
- unsigned long [DCM::DCM\\_Notifications::Output\\_TS\\_Change::Ref](#)
- unsigned long [DCM::DCM\\_Notifications::Output\\_TS\\_Change::OldOnId](#)
- unsigned long [DCM::DCM\\_Notifications::Output\\_TS\\_Change::NewOnId](#)
- unsigned long [DCM::DCM\\_Notifications::Output\\_TS\\_Change::OldTsId](#)

- unsigned long `DCM::DCM_Notifications::Output_TS_Change::NewTsId`
- unsigned long `DCM::DCM_Notifications::Output_TS_Change::ScrambleServicesAvailable`  
*when true, same as `DCM_TsIdOnIdChange`*
- unsigned long `DCM::DCM_Notifications::Output_TS_Delete::BoardNr`
- unsigned long `DCM::DCM_Notifications::Output_TS_Delete::PortNr`
- unsigned long `DCM::DCM_Notifications::Output_TS_Delete::Ref`
- unsigned long `DCM::DCM_Notifications::Output_TS_Delete::OnId`
- unsigned long `DCM::DCM_Notifications::Output_TS_Delete::TsId`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableChng::TsRef_BoardNr`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableChng::TsRef_PortNr`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableChng::TsRef_Ref`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableChng::TsRef_OnId`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableChng::TsRef_TsId`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableChng::TableKey_Id`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableChng::TableKey_IdExt`  
*SID,.... Set to 0xFFFFFFFF when not used.*
- unsigned long `DCM::DCM_Notifications::Output_SI_TableChng::TableKey_OnId`  
*Set to 0xFFFFFFFF when not used.*
- unsigned long `DCM::DCM_Notifications::Output_SI_TableChng::TableKey_TsId`  
*Set to 0xFFFFFFFF when not used.*
- unsigned long `DCM::DCM_Notifications::Output_SI_TableChng::TableKey_Pid`  
*Always filled in. Only needed for AIT or tables on non-standard PID's.*
- unsigned long `DCM::DCM_Notifications::Output_SI_TableDel::TsRef_BoardNr`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableDel::TsRef_PortNr`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableDel::TsRef_Ref`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableDel::TsRef_OnId`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableDel::TsRef_TsId`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableDel::TableKey_Id`
- unsigned long `DCM::DCM_Notifications::Output_SI_TableDel::TableKey_IdExt`  
*SID,.... Set to 0xFFFFFFFF when not used.*
- unsigned long `DCM::DCM_Notifications::Output_SI_TableDel::TableKey_OnId`  
*Set to 0xFFFFFFFF when not used.*
- unsigned long `DCM::DCM_Notifications::Output_SI_TableDel::TableKey_TsId`  
*Set to 0xFFFFFFFF when not used.*
- unsigned long `DCM::DCM_Notifications::Output_SI_TableDel::TableKey_Pid`  
*Always filled in. Only needed for AIT or tables on non-standard PID's.*

### 8.72.1 Detailed Description

This contains types, enums and methods to configure the IP Gateway.

### 8.72.2 Typedef Documentation

#### 8.72.2.1 typedef sequence<long> `DCM::DeviceCallback::LongStream`

A sequence of longs.

Definition at line 32201 of file DCM.idl.

### 8.72.2.2 typedef sequence<LongStream> DCM::DeviceCallback::NotifDataList

Definition at line 32205 of file DCM.idl.

## 8.72.3 Enumeration Type Documentation

### 8.72.3.1 enum DCM::DeviceControl::eGbeSpeedMode\_t

Enumerator:

- e1Gbps* Configures the Gbe port pair to work at a speed of 1 Gbps.
- e10Gbps* Configures the Gbe port pair to work at a speed of 10 Gbps.
- eGbeSpeed\_Reserved1* Future use.
- eGbeSpeed\_Reserved2* Future use.

Definition at line 29715 of file DCM.idl.

### 8.72.3.2 enum DCM::DeviceControl::enDCG\_BoardMode\_t

Enumerator:

- eDCG\_BoardMode\_IP\_GW* IP Gateway.
- eDCG\_BoardMode\_ASI\_GW* ASI Gateway.
- eDCG\_BoardMode\_Reserved\_1* not supported yet
- eDCG\_BoardMode\_Reserved\_2* not supported yet
- eDCG\_BoardMode\_Reserved\_3* not supported yet
- eDCG\_BoardMode\_Reserved\_4* not supported yet
- eDCG\_BoardMode\_Reserved\_5* not supported yet

Definition at line 29734 of file DCM.idl.

### 8.72.3.3 enum DCM::DeviceControl::enMValue\_t

Enumerator:

- eM1\_000* Choose 25 or 30 or 60 for 1080i or 1080p.
- eM1\_001* Choose 25 or 29.97 or 59.94 for 1080i or 1080p.

Definition at line 29745 of file DCM.idl.

### 8.72.3.4 enum DCM::DeviceControl::eSDI\_NoStreamMode\_t

Enumerator:

- eBlackFrame* For video: Black frames. For audio: Silence.
- e0Vdc* No signal.
- eNoStream\_Reserved1* Future use.
- eNoStream\_Reserved2* Future use.
- eNoStream\_Reserved3* Future use.
- eNoStream\_Reserved4* Future use.
- eNoStream\_Reserved5* Future use.

Definition at line 29723 of file DCM.idl.

## 8.72.4 Function Documentation

**8.72.4.1** void DCM::DeviceControl::BoardCfgGetSpeedMode ( in unsigned short *SlotNumber*, out eGbeSpeedMode\_t *SpeedMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the Gbe port pair speed that is currently used.

## Parameters

|     |                   |                                                                  |
|-----|-------------------|------------------------------------------------------------------|
| in  | <i>SlotNumber</i> | Slot number                                                      |
| out | <i>SpeedMode</i>  | SpeedMode ///< The actual speed that the Gbe port pair works in. |

## Exceptions

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway. |
| <i>OpNotSucceeded</i> | In case of                                                                        |

## Version

Release 7.0

**8.72.4.2** void DCM::DeviceControl::BoardCfgSetSpeedMode ( in unsigned short *SlotNumber*, in eGbeSpeedMode\_t *SpeedMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

Set Gbe port pair speed to be used.

## Parameters

|    |                   |                                                                        |
|----|-------------------|------------------------------------------------------------------------|
| in | <i>SlotNumber</i> | Slot number                                                            |
| in | <i>SpeedMode</i>  | SpeedMode ///< The actual speed that the Gbe port pair should work in. |

## Exceptions

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway. |
| <i>OpNotSucceeded</i> | In case of                                                                        |

## Note

- Switching speed mode will cause a firmware reset and thus is service affecting !!

## Version

Release 7.0

**8.72.4.3** void DCM::DeviceControl::DCG\_GetBoardMode ( in unsigned short *BoardNr*, out enDCG\_BoardMode\_t *enBoardMode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the Gateway board mode.

**Parameters**

|     |                    |                          |
|-----|--------------------|--------------------------|
| in  | <i>BoardNr</i>     | The gateway board number |
| out | <i>enBoardMode</i> | Requested board mode     |

**Exceptions**

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not an IP Video Gateway board. |
|-----------------------|------------------------------------------------------------------------|

**Version**

Release 8.2

**8.72.4.4** `enMValue_t DCM::DeviceControl::DCG_GetMValue ( in unsigned short BoardNr )` raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**Parameters**

|    |                |                          |
|----|----------------|--------------------------|
| in | <i>BoardNr</i> | The gateway board number |
|----|----------------|--------------------------|

**Exceptions**

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not an IP Video Gateway board. |
|-----------------------|------------------------------------------------------------------------|

**Version**

Release 8.9

**8.72.4.5** `void DCM::DeviceControl::DCG_SetBoardMode ( in unsigned short BoardNr, in enDCG_BoardMode_t enBoardMode )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set the gateway board mode.

**Parameters**

|    |                    |                          |
|----|--------------------|--------------------------|
| in | <i>BoardNr</i>     | The gateway board number |
| in | <i>enBoardMode</i> | Board mode to set        |

**Exceptions**

|                       |                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not an IP Video Gateway board.                                               |
| <i>OpNotSucceeded</i> | if the new board mode is different from the current board mode and there are currently IP or ASI streams configured. |

**Version**

Release 8.2

**8.72.4.6** `void DCM::DeviceControl::DCG_SetMValue ( in unsigned short BoardNr, in enMValue_t enMValue )` raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**Parameters**

|    |                 |                          |
|----|-----------------|--------------------------|
| in | <i>BoardNr</i>  | The gateway board number |
| in | <i>enMValue</i> | Board mode to set        |

**Exceptions**

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main or the board is not an IP Video Gateway board. |
|-----------------------|------------------------------------------------------------------------|

**Version**

Release 8.9

**8.72.4.7** void DCM::DeviceControl::GetMonitoredPort ( in unsigned short *SlotNumber*, out unsigned short *PortNbr* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get Mirror an (SDI) port, so that it can be monitored.

**Parameters**

|     |                   |                                      |
|-----|-------------------|--------------------------------------|
| in  | <i>SlotNumber</i> | Slot number                          |
| out | <i>PortNbr</i>    | The port being mirrored or monitored |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case of                                                                                               |

**Version**

Release 7.0

**8.72.4.8** void DCM::DeviceControl::GetSDI\_NoStreamMode ( in unsigned short *SlotNumber*, out eSDI\_NoStreamMode\_t *Mode* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets the output SDI no stream mode.

**Parameters**

|     |                   |                                                                                                                                                            |
|-----|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in  | <i>SlotNumber</i> | Slot number                                                                                                                                                |
| out | <i>Mode</i>       | Specifies what the signal should will look like when SDI or AES output is "not streaming": either black frame for video / silence for audio or else 0 V dc |



**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>•</li> </ul>                                           |

**Version**

Release 7.0

**8.72.4.9** void DCM::DeviceControl::GetStreamClockSync ( in unsigned short *SlotNumber*, out boolean *bUseExtRef* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Check if the external clock reference input is used or not to synchronize the output video or audio signals on.

**Parameters**

|     |                   |                                                       |
|-----|-------------------|-------------------------------------------------------|
| in  | <i>SlotNumber</i> | Slot number                                           |
| out | <i>bUseExtRef</i> | True means the external clock reference input is used |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>•</li> </ul>                                           |

**Version**

Release 11.10

**8.72.4.10** void DCM::DeviceControl::GetVideoClockSync ( in unsigned short *SlotNumber*, out boolean *bUseExtRef* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Check if the external clock reference input is used or not to synchronize the output video or audio signals on.

**Parameters**

|     |                   |                                                       |
|-----|-------------------|-------------------------------------------------------|
| in  | <i>SlotNumber</i> | Slot number                                           |
| out | <i>bUseExtRef</i> | True means the external clock reference input is used |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
|-----------------------|----------------------------------------------------------------------------------------------------------|

|                       |                                                               |
|-----------------------|---------------------------------------------------------------|
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li></li> </ul> |
|-----------------------|---------------------------------------------------------------|

**Version**

Release 7.0

**Deprecated**

**8.72.4.11** void DCM::DeviceControl::HotSwapIO\_Board ( in unsigned short *BoardNr* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Prepare a board for hot swap.

**Parameters**

|    |                |              |
|----|----------------|--------------|
| in | <i>BoardNr</i> | Board number |
|----|----------------|--------------|

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | Never thrown.                                                                                            |
| <i>OpNotAllowed</i>   | Never thrown.                                                                                            |
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |

**Version**

Release 7.0

**8.72.4.12** void DCM::DeviceCallback::Notify ( in string *NotificationName*, in NotifDataList *EventDataList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Notifies changes in the server that can be used as trigger.

**Parameters**

|    |                          |                                                                     |
|----|--------------------------|---------------------------------------------------------------------|
| in | <i>Notification-Name</i> | Name of Notification type (see <a href="#">DCM_Notifications</a> ). |
| in | <i>EventDataList</i>     | list of notifications of the given type with parameters.            |

**Remarks**

This GIOP-request doesn't expect a GIOP-reply

**Exceptions**

|                       |                                             |
|-----------------------|---------------------------------------------|
| <i>OpNotSucceeded</i> | PhysPort does not specify a valid mgmt port |
|-----------------------|---------------------------------------------|

**8.72.4.13** void DCM::DeviceControl::SetMonitoredPort ( in unsigned short *SlotNumber*, in unsigned short *SdiPortNbr* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Mirror an (SDI) port, so that it can be monitored.

#### Parameters

|    |                   |                                          |
|----|-------------------|------------------------------------------|
| in | <i>SlotNumber</i> | Slot number                              |
| in | <i>SdiPortNbr</i> | The SDI port to be mirrored or monitored |

#### Exceptions

|                       |                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway.                       |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references like a port number that is not an SDI port nbr</li> </ul> |

#### Version

Release 7.0

**8.72.4.14** void DCM::DeviceControl::SetSDI\_NoStreamMode ( in unsigned short *SlotNumber*, in eSDI\_NoStreamMode\_t *Mode* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Specify output SDI or AES no stream mode.

#### Parameters

|    |                   |                                                                                                                                                       |
|----|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>SlotNumber</i> | Slot number                                                                                                                                           |
| in | <i>Mode</i>       | Specifies what the signal should look like when SDI or AES output is "not streaming": either black frame for video / silence for audio or else 0 V dc |

#### Exceptions

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case of illegal mode <ul style="list-style-type: none"> <li></li> </ul>                               |

**Version**

Release 7.0

**8.72.4.15** void DCM::DeviceControl::SetStreamClockSync ( in unsigned short *SlotNumber*, in boolean *bUseExtRef* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Indicate if the external clock reference input should be used or not to synchronize the output video or audio signals on.

**Parameters**

|    |                   |                                                              |
|----|-------------------|--------------------------------------------------------------|
| in | <i>SlotNumber</i> | Slot number                                                  |
| in | <i>bUseExtRef</i> | True means the external clock reference input should be used |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case of                                                                                               |

**Version**

Release 11.10

•

**8.72.4.16** void DCM::DeviceControl::SetVideoClockSync ( in unsigned short *SlotNumber*, in boolean *bUseExtRef* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Indicate if the external clock reference input should be used or not to synchronize the output video or audio signals on.

**Parameters**

|    |                   |                                                              |
|----|-------------------|--------------------------------------------------------------|
| in | <i>SlotNumber</i> | Slot number                                                  |
| in | <i>bUseExtRef</i> | True means the external clock reference input should be used |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case of                                                                                               |

**Version**

Release 7.0

**Deprecated**

•

**8.72.5 Variable Documentation****8.72.5.1 MFPB\_AAC\_AudioSettingsList.t DCM::DeviceControl::MFPB\_AacAudioCfg\_t::AAC\_AudioSettingsList**

AAC Audio settings per ES.

Definition at line 11986 of file DCM.idl.

**8.72.5.2 AC.t DCM::DeviceControl::TierAC\_t::AC**

Access criteria.

Definition at line 27642 of file DCM.idl.

**8.72.5.3 eTriBool DCM::DeviceControl::VCT\_Data\_t::AccessControlled**

true: channel is scrambled

Definition at line 9059 of file DCM.idl.

**8.72.5.4 boolean DCM::DeviceControl::SMX\_StatMuxPool\_V2::Active**

Definition at line 23392 of file DCM.idl.

**8.72.5.5 IPS\_Ref.t DCM::DeviceControl::DescrCAM\_BackupCfg\_t::ActiveCAM**

active CAM (can also be used to revert to MAIN CAM)

Definition at line 28637 of file DCM.idl.

**8.72.5.6 IPS\_Service\_In\_V2.t DCM::DeviceControl::IPS\_ServiceData\_Out\_V2\_t::ActiveInputService**

Read only : can be different from main input service e.g. when service is in backup, ...

Definition at line 4947 of file DCM.idl.

**8.72.5.7 IPS\_Service\_In\_V2.t DCM::DeviceControl::IPS\_ServiceData\_Out\_V3\_t::ActiveInputService**

Read only : can be different from main input service e.g. when service is in backup, ...

Definition at line 4978 of file DCM.idl.

**8.72.5.8 IPS\_Service\_In\_V2.t DCM::DeviceControl::TC\_ServiceData\_t::ActiveInputService**

Read only : can be different from main input service e.g. when service is in backup, ...

Definition at line 5016 of file DCM.idl.

**8.72.5.9 IPS\_Service\_In\_V2.t DCM::DeviceControl::TC\_ServiceDataV2\_t::ActiveInputService**

Read only : can be different from main input service e.g. when service is in backup, ...

Definition at line 5606 of file DCM.idl.

**8.72.5.10 IPS\_Service\_In\_V2.t DCM::DeviceControl::DescrServiceData\_t::ActiveInputService**

active input service, e.g. when in backup

Definition at line 28097 of file DCM.idl.

#### **8.72.5.11 IPS\_RefTS\_t DCM::DeviceControl::IPS\_OutputTS\_LT\_t::ActiveInRef**

The location of the ActiveInputTS (Board, Port and Ref).

Definition at line 4460 of file DCM.idl.

#### **8.72.5.12 IPS\_RefTS\_t DCM::DeviceControl::IPS\_OutputTS\_LT\_V2\_t::ActiveInRef**

The location of the ActiveInputTS (Board, Port and Ref).

Definition at line 4477 of file DCM.idl.

#### **8.72.5.13 IPS\_Service\_t DCM::DeviceControl::AltSrcMergeActiveInSvc\_t::ActiveInService**

The Backup Svc that is (get) or should be (set) activated.

Definition at line 23250 of file DCM.idl.

#### **8.72.5.14 short DCM::DeviceControl::SMX36\_StatmuxController\_t::ActivePools**

RO The number of active running pools on the controller.

Definition at line 23729 of file DCM.idl.

#### **8.72.5.15 IPS\_Ref\_t DCM::DeviceControl::NicTeamStatus::ActivePort**

Definition at line 2220 of file DCM.idl.

#### **8.72.5.16 IPS\_RefTS\_t DCM::DeviceControl::DCG\_OutputTS\_t::ActiveRefIn**

Definition at line 30097 of file DCM.idl.

#### **8.72.5.17 AlternateSrcId\_t DCM::DeviceControl::IPS\_ServiceData\_Out\_V3\_t::ActiveSourceId**

Read only: the source ID of the currently active alternate source.

Definition at line 4979 of file DCM.idl.

#### **8.72.5.18 AlternateSrcId\_t DCM::DeviceControl::AlternateSourceSettings\_t::ActiveSourceId**

the ID of the currently active source (read-only)

Definition at line 17734 of file DCM.idl.

#### **8.72.5.19 short DCM::DeviceControl::SMX36\_StatmuxController\_t::ActiveVSEs**

RO The number of active running VSE on the controller.

Definition at line 23731 of file DCM.idl.

#### **8.72.5.20 enMFPB\_AdaptSI\_t DCM::DeviceControl::MFPB\_ServiceCfg\_t::AdaptSI\_Tables**

Default Adapt SI using DVB : will automatically adapt PMT, EIT and SDT content where necessary.

Definition at line 10428 of file DCM.idl.

#### **8.72.5.21 boolean DCM::DeviceControl::TC\_ServiceCfg\_t::AdaptSI\_Tables**

Default true : will automatically adapt PMT, EIT and SDT tables where necessary.

Definition at line 13177 of file DCM.idl.

#### **8.72.5.22 boolean DCM::DeviceControl::OutTsServiceLocationAdded\_t::Added**

Definition at line 9212 of file DCM.idl.

#### **8.72.5.23 ByteStream DCM::DeviceControl::DescriptorRule\_t::AdditionalBytes**

Definition at line 7839 of file DCM.idl.

#### **8.72.5.24 boolean DCM::DeviceControl::AddPidsFromSplice\_t::AddPidsFromSplice**

Definition at line 17682 of file DCM.idl.

#### **8.72.5.25 unsigned long DCM::DeviceControl::TC\_AudioStatus\_t::AdjustedBitrate**

The real output bitrate, after input mode and sample rate have been taken into account.

Definition at line 13146 of file DCM.idl.

#### **8.72.5.26 unsigned short DCM::DeviceControl::DPI\_PidCouple\_t::AdPid**

Ad Input PID value - INVALID\_PID\_VALUE if rule == PassMain.

Definition at line 17119 of file DCM.idl.

#### **8.72.5.27 unsigned long DCM::DeviceControl::ASI\_DTF\_t::AFInterval**

The interval between two adaptation fields, in ms.

Definition at line 21988 of file DCM.idl.

#### **8.72.5.28 unsigned long DCM::DeviceControl::ASI\_DTF\_Ex\_t::AFInterval**

The interval between two adaptation fields, in ms.

Definition at line 22006 of file DCM.idl.

#### **8.72.5.29 unsigned short DCM::DeviceControl::RipSettings\_t::AlarmMetric**

RIP metric to be advertised when TS is not streaming or in bad shape. Range [1,16], default 16.

Definition at line 31928 of file DCM.idl.

#### **8.72.5.30 MM\_ID\_t DCM::DeviceControl::AlarmTriggerRule\_t::AlarmRef**

Definition at line 21407 of file DCM.idl.

#### **8.72.5.31 BitrateAlarmSetting\_t DCM::DeviceControl::OutTS\_AlarmSetting\_t::AlarmSetting**

The alarm settings themselves.

Definition at line 22998 of file DCM.idl.

#### **8.72.5.32 MsgSeverity DCM::DeviceControl::MM\_MeasurementStat::AlarmSeverity**

Definition at line 22633 of file DCM.idl.

**8.72.5.33 IP\_List.t DCM::DeviceControl::IP\_Subnet\_t::AliasList**

Definition at line 2066 of file DCM.idl.

**8.72.5.34 AlternateSourceList.t DCM::DeviceControl::AlternateSourceSettings\_t::AlternateSources**

A list of all the alternate sources.

Definition at line 17732 of file DCM.idl.

**8.72.5.35 AlternateSrcId.t DCM::DeviceControl::ComponentMergeCriterium\_t::AlternateSrcId**

Definition at line 5069 of file DCM.idl.

**8.72.5.36 AlternateSrcId.t DCM::DeviceControl::AltSrcMergedSetting\_t::AlternateSrcId**

Definition at line 5266 of file DCM.idl.

**8.72.5.37 AlternateSrcId.t DCM::DeviceControl::PcrSetting\_t::AlternateSrcId**

Identifies the alternate service for a specific output service.

Definition at line 5976 of file DCM.idl.

**8.72.5.38 AlternateSrcId.t DCM::DeviceControl::AlternateSource\_t::AlternateSrcId**

the ID of this alternate source (read-only)

Definition at line 17724 of file DCM.idl.

**8.72.5.39 AlternateSrcId.t DCM::DeviceControl::AltSrcBU\_Setting\_t::AlternateSrcId**

Definition at line 23205 of file DCM.idl.

**8.72.5.40 AlternateSrcId.t DCM::DeviceControl::AltSrcMergeActiveInSvc\_t::AlternateSrcId**

The id of the alternate svc where the merge svc is located.

Definition at line 23248 of file DCM.idl.

**8.72.5.41 boolean DCM::DeviceControl::LogoCfg\_t::AnimatedLogo**

False: static logo, true: animated logo.

Definition at line 13821 of file DCM.idl.

**8.72.5.42 SelectionIdList.t DCM::DeviceControl::TC\_DependantQuestion\_t::Answers**

Definition at line 12895 of file DCM.idl.

**8.72.5.43 unsigned short DCM::DeviceControl::ETV\_ApplicationIdent\_t::AppId**

Definition at line 17343 of file DCM.idl.

**8.72.5.44 ApplInstanceId.t DCM::DeviceControl::ETV\_ApplicationIdent\_t::AppInstanceId**

Reserved for future use. Must be empty sequence.

Definition at line 17344 of file DCM.idl.



**8.72.5.45 string DCM::DeviceControl::DescrCAM\_Status\_t::AppVersion**

CAM software version.

Definition at line 28700 of file DCM.idl.

**8.72.5.46 eDestArpStatus DCM::DeviceControl::EndDeviceEntry\_t::ArpStatus**

1) if LAN: ArpStatus of end device 2) if GW: ArpStatus of GW

Definition at line 19036 of file DCM.idl.

**8.72.5.47 eAspectRatio\_t DCM::DeviceControl::VideoSignalInfo\_t::AspectRatio**

Definition at line 30206 of file DCM.idl.

**8.72.5.48 eGPI\_Assert\_t DCM::DeviceControl::GPI\_Settings\_t::Assert**

gpi assert level

Definition at line 31579 of file DCM.idl.

**8.72.5.49 TC\_AudioList\_t DCM::DeviceControl::TC\_AudioCfg\_t::Audio**

Definition at line 13219 of file DCM.idl.

**8.72.5.50 TC\_AudioInformationList\_t DCM::DeviceControl::TC\_AudioServiceInformation\_t::Audio**

Definition at line 13226 of file DCM.idl.

**8.72.5.51 unsigned long DCM::DeviceControl::TC\_BoardCfg\_t::Audio\_Slots**

Definition at line 12835 of file DCM.idl.

**8.72.5.52 unsigned long DCM::DeviceControl::TC\_BoardCfg\_V2\_t::Audio\_Slots**

Definition at line 12853 of file DCM.idl.

**8.72.5.53 unsigned long DCM::DeviceControl::DCG\_AudioPairInfo\_t::AudioBitRate**

Definition at line 31196 of file DCM.idl.

**8.72.5.54 unsigned long DCM::DeviceControl::BoardBitrateThreshold::AudioBitrateThreshold**

Bitrate threshold for audio PIDs - in bps.

Definition at line 22819 of file DCM.idl.

**8.72.5.55 MFPB\_ComponentList\_t DCM::DeviceControl::MFPB\_ServiceComponents\_t::Audio-Components**

The audio pids which can be processed.

Definition at line 10568 of file DCM.idl.

**8.72.5.56 MFPB\_AudioDecodeExtraAACSettingsList\_t DCM::DeviceControl::MFPB\_AudioDecode-ExtraAACCfg\_t::AudioDecodeExtraAACSettingsList**

Extra AAC decoder settings per ES.

Definition at line 12473 of file DCM.idl.

**8.72.5.57** `MFPB_AudioDecodeExtraDolbySettingsList_t` `DCM::DeviceControl::MFPB_AudioDecodeExtraDolbyCfg_t::AudioDecodeExtraDolbySettingsList`

Extra Dolby decoder settings per ES.

Definition at line 12565 of file DCM.idl.

**8.72.5.58** `MFPB_AudioDecodeExtraMPEGL2SettingsList_t` `DCM::DeviceControl::MFPB_AudioDecodeExtraMPEGL2Cfg_t::AudioDecodeExtraMPEGL2SettingsList`

Extra decoder settings per ES.

Definition at line 12405 of file DCM.idl.

**8.72.5.59** `MFPB_AudioDecodeList_t` `DCM::DeviceControl::MFPB_AudioDecodeCfg_t::AudioDecodeList`

Definition at line 11670 of file DCM.idl.

**8.72.5.60** `MFPB_AudioEncodeList_t` `DCM::DeviceControl::MFPB_AudioEncodeCfg_t::AudioEncodeList`

Definition at line 11795 of file DCM.idl.

**8.72.5.61** `enMFPB_AudioFormat_t` `DCM::DeviceControl::MFPB_AudioStatus_t::AudioFormat`

Definition at line 11612 of file DCM.idl.

**8.72.5.62** `MFPB_AudioInformationList_t` `DCM::DeviceControl::MFPB_AudioServiceInformation_t::AudioInformation`

Definition at line 11629 of file DCM.idl.

**8.72.5.63** `long` `DCM::DeviceControl::MFPB_AudioStatus_t::AudioLevel`

Reserved for future.

Definition at line 11616 of file DCM.idl.

**8.72.5.64** `TR_AudioLevelList_t` `DCM::DeviceControl::TR_ServiceAudioLevel_t::AudioLevelList`

Definition at line 16868 of file DCM.idl.

**8.72.5.65** `boolean` `DCM::DeviceControl::DCG_AudioPairInfo_t::AudioPairEnable`

Definition at line 31192 of file DCM.idl.

**8.72.5.66** `DCG_AudioID_t` `DCM::DeviceControl::DCG_AudioPairInfo_t::AudioPairId`

Definition at line 31191 of file DCM.idl.

**8.72.5.67** `boolean` `DCM::DeviceControl::DCG_AudioPairInfo_t::AudioPairPresent`

Definition at line 31193 of file DCM.idl.

**8.72.5.68 TC\_ComponentList.t DCM::DeviceControl::TC\_ServiceComponents\_t::AudioPids**

The audio pids which can be transcoded.

Definition at line 13241 of file DCM.idl.

**8.72.5.69 enDCG\_AudioResolution.t DCM::DeviceControl::DCG\_AudioPairInfo\_t::AudioResolution**

Definition at line 31194 of file DCM.idl.

**8.72.5.70 unsigned long DCM::DeviceControl::DCG\_AudioPairInfo\_t::AudioSampleRate**

Definition at line 31195 of file DCM.idl.

**8.72.5.71 DCG\_AudioPairInfo\_List.t DCM::DeviceControl::DCG\_JP2K\_params\_t::AudioSettings**

Definition at line 31308 of file DCM.idl.

**8.72.5.72 DCG\_AudioPairInfo\_List.t DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t::AudioSettings**

Definition at line 31328 of file DCM.idl.

**8.72.5.73 DCG\_AudioPairInfo\_List.t DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t::AudioSettings**

Definition at line 31349 of file DCM.idl.

**8.72.5.74 octet DCM::DeviceControl::IPS\_LanguageSettings\_t::AudioType**

Definition at line 5877 of file DCM.idl.

**8.72.5.75 boolean DCM::DeviceControl::ScriptEntry\_t::AutoRun**

Whether the script will be automatically run on startup.

Definition at line 31758 of file DCM.idl.

**8.72.5.76 unsigned long DCM::DeviceControl::MFPB\_VideoEncodeSettings\_t::AVC IDR\_Interval**

AVC IDR\_Interval This field has a 2 fold meaning 1) AVC only: Insert nr of IDR frames per gop.

Between 0 (no IDR, default) to 4, 0 is default. (ignored for transrating + see GopStructure constraints) 2) Closed Gops disable 0 [default] or enable 1. Special values 0 and 1 can only be used when transcoding. Independent of format (Mpeg2 or AVC) or other Gop settings.

The value is ignored and set to 0 in cases it cannot be used.

Definition at line 11025 of file DCM.idl.

**8.72.5.77 unsigned long DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::AVC IDR\_Interval**

AVC IDR\_Interval This field has a 2 fold meaning 1) AVC only: Insert nr of IDR frames per gop.

Between 0 (no IDR, default) to 4, 0 is default. (ignored for transrating + see GopStructure constraints) 2) Closed Gops disable 0 [default] or enable 1. Special values 0 and 1 can only be used when transcoding. Independent of format (Mpeg2 or AVC) or other Gop settings.

The value is ignored and set to 0 in cases it cannot be used.

Definition at line 11195 of file DCM.idl.

**8.72.5.78 unsigned long DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t::AVCIDR-Interval**

Not used for the moment.

Definition at line 11360 of file DCM.idl.

**8.72.5.79 unsigned long DCM::DeviceControl::BitRateMeasurement\_t::AvgBitRate**

Definition at line 9782 of file DCM.idl.

**8.72.5.80 octet DCM::DeviceControl::Color\_t::B**

Definition at line 13875 of file DCM.idl.

**8.72.5.81 IPS\_Ref\_t DCM::DeviceControl::DescrCAM\_BackupCfg\_t::BackupCAM**

reference of the backup CAM

Definition at line 28636 of file DCM.idl.

**8.72.5.82 unsigned long DCM::DeviceControl::DescrCAM\_BackupCfg\_t::BackupDelay**

delay to switch from a failing CAM to the backup

Definition at line 28638 of file DCM.idl.

**8.72.5.83 string DCM::DeviceControl::SMX36\_VSEBackup\_t::BackupEncoderIPAddress**

Management IP Address of the Backup encoder.

Definition at line 24342 of file DCM.idl.

**8.72.5.84 string DCM::DeviceControl::SMX36\_VSEBackup\_V2\_t::BackupEncoderIPAddress**

Management IP Address of the Backup encoder.

Definition at line 24354 of file DCM.idl.

**8.72.5.85 IPS\_RefTS\_List\_t DCM::DeviceControl::TS\_BackupParams\_t::BackupInTS\_List**

Definition at line 21742 of file DCM.idl.

**8.72.5.86 IPS\_Ref\_t DCM::DeviceControl::BoardCfg\_t::BackupLocation**

For ASI a backup input can be specified.

Definition at line 1659 of file DCM.idl.

**8.72.5.87 IPS\_Ref\_t DCM::DeviceControl::BoardCfg\_V2\_t::BackupLocation**

For ASI a backup input can be specified.

Definition at line 1701 of file DCM.idl.

**8.72.5.88 IPS\_Service\_t DCM::DeviceControl::BackupService\_t::BackupService**

specifies BoardNr, PortNr, TS and output SID

Definition at line 23049 of file DCM.idl.

**8.72.5.89 BackupSrvTableList.t DCM::DeviceControl::AltSrcBU\_Setting\_t::BackupSrvTableList**

Definition at line 23206 of file DCM.idl.

**8.72.5.90 SMX36\_StatmuxControllerBackupState.e DCM::DeviceControl::SMX36\_Statmux-Controller\_t::BackupState**

Future need to be clarified.

Definition at line 23732 of file DCM.idl.

**8.72.5.91 SMX\_VSEBackupState.e DCM::DeviceControl::SMX36\_VSE\_t::BackupState**

RO VSE backup state.

Definition at line 24058 of file DCM.idl.

**8.72.5.92 SMX\_VSEBackupState.e DCM::DeviceControl::SMX36\_VSE\_V2\_t::BackupState**

RO VSE backup state.

Definition at line 24077 of file DCM.idl.

**8.72.5.93 SMX\_VSEBackupState.e DCM::DeviceControl::SMX36\_VSE\_V3\_t::BackupState**

RO VSE backup state.

Definition at line 24122 of file DCM.idl.

**8.72.5.94 SMX\_VSEBackupState.e DCM::DeviceControl::SMX36\_VSE\_V4\_t::BackupState**

RO VSE backup state.

Definition at line 24173 of file DCM.idl.

**8.72.5.95 SMX36\_VSEBackupState.e DCM::DeviceControl::SMX36\_VSEBackup\_t::BackupState**

State of the configured VSE backup.

Definition at line 24345 of file DCM.idl.

**8.72.5.96 SMX36\_VSEBackupState.V2.e DCM::DeviceControl::SMX36\_VSEBackup\_V2\_t::Backup-State**

State of the configured VSE backup.

Definition at line 24357 of file DCM.idl.

**8.72.5.97 IPS\_RefTS.t DCM::DeviceControl::DCG\_BackupStream\_t::BackupStream**

Definition at line 31036 of file DCM.idl.

**8.72.5.98 BackupServiceList.t DCM::DeviceControl::BackupSrvTable\_t::BackupSvcList**

specifies list of BoardNr, PortNr, TS and input SID < for backup service

Definition at line 23057 of file DCM.idl.

**8.72.5.99 unsigned long DCM::DeviceControl::DeviceBackupParams\_t::BackupToMainDelay**

[Time](#) in seconds to wait before switching back to main device, range 0-60 s.

Definition at line 21154 of file DCM.idl.

**8.72.5.100 unsigned long DCM::DeviceControl::DeviceBackupParamsV2\_t::BackupToMainDelay**

**Time** in seconds to wait before switching back to main device or reactivating, range 0-60 s.

Definition at line 21174 of file DCM.idl.

**8.72.5.101 unsigned long DCM::DeviceControl::DescrCAM\_BackupCfg\_t::BackupTrigger**

bitmap containing the backup triggers. Bit0: service not descrambled. other bits for future use.

Definition at line 28639 of file DCM.idl.

**8.72.5.102 octet DCM::DeviceControl::MM\_TypeInfo\_V2::BackupTriggerMethod**

Definition at line 22623 of file DCM.idl.

**8.72.5.103 string DCM::DeviceControl::SMX36\_VSEBackup\_t::BackupVideoStreamEncoder-  
Name**

future Name of the video stream on which the statmuxing is running.

Definition at line 24344 of file DCM.idl.

**8.72.5.104 string DCM::DeviceControl::SMX36\_VSEBackup\_V2\_t::BackupVideoStreamEncoder-  
Name**

future Name of the video stream on which the statmuxing is running.

Definition at line 24356 of file DCM.idl.

**8.72.5.105 string DCM::DeviceControl::SMX36\_VSEBackup\_t::BackupVSEName**

VSE Name of the Backup VSE (max length = 20).

Definition at line 24343 of file DCM.idl.

**8.72.5.106 string DCM::DeviceControl::SMX36\_VSEBackup\_V2\_t::BackupVSEName**

VSE Name of the Backup VSE (max length = 20).

Definition at line 24355 of file DCM.idl.

**8.72.5.107 boolean DCM::DeviceControl::TC\_AudioSettings\_t::bAllowAC3**

Transcode AC-3 input. Requires an AC3 extension license.

Definition at line 13133 of file DCM.idl.

**8.72.5.108 eDvbS2\_BandSelection\_t DCM::DeviceControl::InPort\_DvbS2\_TunerCfg\_t::Band-  
Selection**

auto, forced low, forced high

Definition at line 7435 of file DCM.idl.

**8.72.5.109 unsigned long DCM::DeviceControl::SMX36\_Pool\_t::Bandwidth**

(bps) The bandwidth of the pool (bps). Must be greather than BandwidthOverhead.

Definition at line 23787 of file DCM.idl.

**8.72.5.110 unsigned long DCM::DeviceControl::SMX36\_Pool\_V2\_t::Bandwidth**

(bps) The bandwidth of the pool (bps). Must be greather than BandwidthOverhead.

Definition at line 23807 of file DCM.idl.

**8.72.5.111 unsigned long DCM::DeviceControl::SMX\_Pool\_Calculate\_t::Bandwidth**

(bps) The bandwidth of the pool (bps). Must be greater than BandwidthOverhead.

Definition at line 24269 of file DCM.idl.

**8.72.5.112 unsigned long DCM::DeviceControl::SMX36\_Pool\_t::BandwidthOverhead**

(bps) Overhead/Free-space to the bandwidth used to prevent overshoot on a mux with a small input buffer. must be less that bandwidth

Definition at line 23788 of file DCM.idl.

**8.72.5.113 unsigned long DCM::DeviceControl::SMX36\_Pool\_V2\_t::BandwidthOverhead**

(bps) Overhead/Free-space to the bandwidth used to prevent overshoot on a mux with a small input buffer. must be less that bandwidth

Definition at line 23808 of file DCM.idl.

**8.72.5.114 unsigned long DCM::DeviceControl::SMX\_Pool\_Calculate\_t::BandwidthOverhead**

(bps) Overhead/Free-space to the bandwidth used to prevent overshoot on a mux with a small input buffer. must be less that bandwidth

Definition at line 24270 of file DCM.idl.

**8.72.5.115 unsigned long DCM::DeviceControl::SMX36\_VSE\_t::BandwidthReserve**

(bps) Reserved bandwidth for other tributary's that the video, Used for auto bandwidth calculation on the pool.

Definition at line 24055 of file DCM.idl.

**8.72.5.116 unsigned long DCM::DeviceControl::SMX36\_VSE\_V2\_t::BandwidthReserve**

(bps) Reserved bandwidth for other tributary's that the video, Used for auto bandwidth calculation on the pool.

Definition at line 24074 of file DCM.idl.

**8.72.5.117 unsigned long DCM::DeviceControl::SMX36\_VSE\_V3\_t::BandwidthReserve**

(bps) Reserved bandwidth for other tributary's that the video, Used for auto bandwidth calculation on the pool.

Definition at line 24120 of file DCM.idl.

**8.72.5.118 unsigned long DCM::DeviceControl::SMX36\_VSE\_V4\_t::BandwidthReserve**

(bps) Reserved bandwidth for other tributary's that the video, Used for auto bandwidth calculation on the pool.

Definition at line 24171 of file DCM.idl.

#### **8.72.5.119 BannerCfgID.t DCM::DeviceControl::BannerCfg\_t::BannerCfgID**

unique banner configuration identifier BannerCfgID 0 will be the default banner, it will always exist and is undeletable.

(must also be 0 when adding a new Banner configuration)

Definition at line 13883 of file DCM.idl.

#### **8.72.5.120 BannerCfgID.t DCM::DeviceControl::BannerCfg\_V2\_t::BannerCfgID**

unique banner configuration identifier BannerCfgID 0 will be the default banner, it will always exist and is undeletable.

(must also be 0 when adding a new Banner configuration)

Definition at line 13945 of file DCM.idl.

#### **8.72.5.121 BannerCfgID.t DCM::DeviceControl::TC\_Banner\_t::BannerCfgID**

Definition at line 13987 of file DCM.idl.

#### **8.72.5.122 BannerCfgID.t DCM::DeviceControl::TC\_Banner\_V2\_t::BannerCfgID**

Definition at line 13998 of file DCM.idl.

#### **8.72.5.123 BannerCfgID.t DCM::DeviceControl::TC\_BannerStatus\_t::BannerCfgID**

The configuration of the active banner.

Definition at line 14049 of file DCM.idl.

#### **8.72.5.124 string DCM::DeviceControl::BannerCfg\_t::BannerCfgName**

Banner configuration name, maximum 64 characters.

Definition at line 13888 of file DCM.idl.

#### **8.72.5.125 string DCM::DeviceControl::BannerCfg\_V2\_t::BannerCfgName**

Banner configuration name, maximum 64 characters.

Definition at line 13950 of file DCM.idl.

#### **8.72.5.126 Color.t DCM::DeviceControl::BannerCfg\_t::BannerColor**

Only applicable for creating a solid colored banner.

Definition at line 13889 of file DCM.idl.

#### **8.72.5.127 Color.t DCM::DeviceControl::BannerCfg\_V2\_t::BannerColor**

Only applicable for creating a solid colored banner.

Definition at line 13951 of file DCM.idl.

#### **8.72.5.128 unsigned short DCM::DeviceControl::BannerCfg\_t::BannerFadeIn**

in frames, max 300 frames, 0 is instant display



Definition at line 13896 of file DCM.idl.

**8.72.5.129 unsigned short DCM::DeviceControl::BannerCfg\_V2\_t::BannerFadeIn**

in frames, max 300 frames, 0 is instant display

Definition at line 13958 of file DCM.idl.

**8.72.5.130 unsigned short DCM::DeviceControl::BannerCfg\_t::BannerFadeOut**

in frames, max 300 frames, 0 is instant removal

Definition at line 13897 of file DCM.idl.

**8.72.5.131 unsigned short DCM::DeviceControl::BannerCfg\_V2\_t::BannerFadeOut**

in frames, max 300 frames, 0 is instant removal

Definition at line 13959 of file DCM.idl.

**8.72.5.132 unsigned short DCM::DeviceControl::BannerCfg\_t::BannerHeight**

In pixels.

Definition at line 13893 of file DCM.idl.

**8.72.5.133 unsigned short DCM::DeviceControl::BannerCfg\_V2\_t::BannerHeight**

In pixels.

Definition at line 13955 of file DCM.idl.

**8.72.5.134 LogoCfgID\_List\_t DCM::DeviceControl::BannerCfg\_t::BannerLogoIDs**

Logos to display along with the banner.

Definition at line 13898 of file DCM.idl.

**8.72.5.135 LogoCfgID\_List\_t DCM::DeviceControl::BannerCfg\_V2\_t::BannerLogoIDs**

Logos to display along with the banner.

Definition at line 13960 of file DCM.idl.

**8.72.5.136 unsigned short DCM::DeviceControl::BannerCfg\_t::BannerOpacity**

10 \* opacity in % (e.g. OpacityX10 = 11 means an opacity of 1.1%), < 100% opaque means not transparent at all.

Definition at line 13890 of file DCM.idl.

**8.72.5.137 unsigned short DCM::DeviceControl::BannerCfg\_V2\_t::BannerOpacity**

10 \* opacity in % (e.g. OpacityX10 = 11 means an opacity of 1.1%), < 100% opaque means not transparent at all.

Definition at line 13952 of file DCM.idl.

**8.72.5.138 unsigned long DCM::DeviceControl::BannerCfg\_t::BannerProperty**

Read only Bitmap.

- Bit 0: TRUE if the Banner is in use.

Definition at line 13914 of file DCM.idl.

#### 8.72.5.139 unsigned long DCM::DeviceControl::BannerCfg\_V2\_t::BannerProperty

Read only Bitmap.

- Bit 0: TRUE if the Banner is in use.

Definition at line 13976 of file DCM.idl.

#### 8.72.5.140 TC\_BannerStatusList\_t DCM::DeviceControl::TC\_ServiceBannerStatus\_t::Banners

The list of active banners (always zero or one elements)

Definition at line 14057 of file DCM.idl.

#### 8.72.5.141 string DCM::DeviceControl::TC\_Banner\_t::BannerText

Encoded in ASCII For an empty text (no characters), the banner text will be used as defined in the corresponding banner configuration.

Definition at line 13988 of file DCM.idl.

#### 8.72.5.142 string DCM::DeviceControl::TC\_Banner\_V2\_t::BannerText

Encoded according to BannerTextEncoding For an empty text (no characters), the banner text will be used as defined in the corresponding banner configuration.

Definition at line 13999 of file DCM.idl.

#### 8.72.5.143 enBannerTextEncoding\_t DCM::DeviceControl::TC\_Banner\_V2\_t::BannerTextEncoding

Encoding of the BannerText.

Definition at line 14005 of file DCM.idl.

#### 8.72.5.144 unsigned long DCM::DeviceControl::TC\_Banner\_t::BannerTimeout

**Time** (in seconds) the banner may remain on screen. (0 for no timeout) < The banner is removed if the loop count or timeout is reached, whichever is first.

Definition at line 13992 of file DCM.idl.

#### 8.72.5.145 unsigned long DCM::DeviceControl::TC\_Banner\_V2\_t::BannerTimeout

**Time** (in seconds) the banner may remain on screen. (0 for no timeout) < The banner is removed if the loop count or timeout is reached, whichever is first.

Definition at line 14003 of file DCM.idl.

#### 8.72.5.146 unsigned short DCM::DeviceControl::BannerCfg\_t::BannerWidth

In pixels.

Definition at line 13892 of file DCM.idl.

**8.72.5.147 unsigned short DCM::DeviceControl::BannerCfg\_V2\_t::BannerWidth**

In pixels.

Definition at line 13954 of file DCM.idl.

**8.72.5.148 unsigned short DCM::DeviceControl::BannerCfg\_t::BannerX\_Position**

In pixels, upper left hand corner is (x,y) = (0,0).

Definition at line 13894 of file DCM.idl.

**8.72.5.149 unsigned short DCM::DeviceControl::BannerCfg\_V2\_t::BannerX\_Position**

In pixels, upper left hand corner is (x,y) = (0,0).

Definition at line 13956 of file DCM.idl.

**8.72.5.150 unsigned short DCM::DeviceControl::BannerCfg\_t::BannerY\_Position**

In pixels.

Definition at line 13895 of file DCM.idl.

**8.72.5.151 unsigned short DCM::DeviceControl::BannerCfg\_V2\_t::BannerY\_Position**

In pixels.

Definition at line 13957 of file DCM.idl.

**8.72.5.152 boolean DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::bAuxProductInfoExists**

Audio Production Info Exists.

Definition at line 12687 of file DCM.idl.

**8.72.5.153 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bAuxProductionInfoExists**

Aux Production Information Exists, [No (false) by default].

Definition at line 12128 of file DCM.idl.

**8.72.5.154 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::bAuxProductionInfoExists**

Aux Production Information Exists, [No (false) by default]. Only used for dual mono.

Definition at line 12288 of file DCM.idl.

**8.72.5.155 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bBandwidthLimitLowPassFilter**

Bandwidth Limit Low Pass Filter, [Off (false) by default].

Definition at line 12109 of file DCM.idl.

**8.72.5.156 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::bBandwidthLimitLowPassFilter**

Bandwidth Limit Low Pass Filter, [Off (false) by default].

Definition at line 12257 of file DCM.idl.

**8.72.5.157 boolean DCM::DeviceControl::ASI\_DTF\_t::bBISS1Scrambled**

true means this stream will be scrambled while encapsulating

Definition at line 21990 of file DCM.idl.

**8.72.5.158 boolean DCM::DeviceControl::ASI\_DTF\_Ex\_t::bBISS1Scrambled**

True means this stream will be scrambled while encapsulating.

Definition at line 22008 of file DCM.idl.

**8.72.5.159 boolean DCM::DeviceControl::ASI\_DTF\_t::bBlocked**

true means input not used, false means input passed

Definition at line 21984 of file DCM.idl.

**8.72.5.160 boolean DCM::DeviceControl::ASI\_DTF\_Ex\_t::bBlocked**

True means input not used, false means input passed.

Definition at line 22002 of file DCM.idl.

**8.72.5.161 boolean DCM::DeviceControl::DescrSvcConfig\_t::bCamBuTrigger**

true: when not descrambled, this service

Definition at line 28447 of file DCM.idl.

**8.72.5.162 boolean DCM::DeviceControl::VlanPortSet\_t::bCanBeDeleted**

true if the configured VLAN can be deleted.

It cannot be deleted if it is in use e.g. in IGMP joins RO field

Definition at line 6693 of file DCM.idl.

**8.72.5.163 unsigned long long DCM::DeviceControl::InPort\_DvbS2\_Counters\_t::BCH\_UncorrectedErrors**

Definition at line 7591 of file DCM.idl.

**8.72.5.164 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bChannelAttenuation**

For Future functionality.

Definition at line 12119 of file DCM.idl.

**8.72.5.165 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::bChannelAttenuation**

Surround Channel Attenuation, [On(true), Off default], Only used if LFE channel is enabled.

Definition at line 12268 of file DCM.idl.

**8.72.5.166 boolean DCM::DeviceControl::MFPB\_AudioEncodeSettings\_t::bCopyright**

Not used (behaviour is follow input, or true if not available), Copyright, [yes (true) by default].

Definition at line 11777 of file DCM.idl.

**8.72.5.167 boolean DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::bCopyright**

Copyright, yes (true)/no.

Definition at line 12701 of file DCM.idl.

**8.72.5.168 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bDcHighPassFilter**

DC High Pass Filter, [Off (false) by default].

Definition at line 12110 of file DCM.idl.

**8.72.5.169 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::bDcHighPassFilter**

DC High Pass Filter, [Off (false) by default].

Definition at line 12258 of file DCM.idl.

**8.72.5.170 boolean DCM::DeviceControl::TC\_LogoDisplay\_t::bDisplay**

True if the logo should be inserted in the video.

Definition at line 14081 of file DCM.idl.

**8.72.5.171 unsigned long DCM::DeviceControl::MessageSetting::BeginDebounceTime**

debouncing time when the alarm begins, switches from non-active to active.

Definition at line 22451 of file DCM.idl.

**8.72.5.172 unsigned long DCM::DeviceControl::NotifData\_t::Behaviour**

0: send buffered, 1: send directly

Definition at line 958 of file DCM.idl.

**8.72.5.173 MsgBehaviour DCM::DeviceControl::MM\_MessageMainPart::Behaviour**

Definition at line 22315 of file DCM.idl.

**8.72.5.174 boolean DCM::DeviceControl::DCG\_JP2K\_params\_t::bEnableAFD**

Definition at line 31311 of file DCM.idl.

**8.72.5.175 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t::bEnableAFD**

Definition at line 31331 of file DCM.idl.

**8.72.5.176 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t::bEnableAFD**

Definition at line 31352 of file DCM.idl.

**8.72.5.177 boolean DCM::DeviceControl::DCG\_JP2K\_params\_t::bEnableClosedCaption**

Definition at line 31313 of file DCM.idl.

**8.72.5.178 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t::bEnableClosedCaption**

Definition at line 31333 of file DCM.idl.

**8.72.5.179 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t::bEnableClosedCaption**

Definition at line 31354 of file DCM.idl.

**8.72.5.180 boolean DCM::DeviceControl::ExtIpServiceCtrl::bEnabled**

Definition at line 24576 of file DCM.idl.

**8.72.5.181 boolean DCM::DeviceControl::DescrCAM\_BackupCfg\_t::bEnabled**

true: backup enabled, false: backup disabled

Definition at line 28635 of file DCM.idl.

**8.72.5.182 boolean DCM::DeviceControl::DescrCAM\_Cfg\_t::bEnabledSetting**

true: enable CAM. requires a license to enable.

Definition at line 28508 of file DCM.idl.

**8.72.5.183 boolean DCM::DeviceControl::DescrCAM\_Cfg\_V2\_t::bEnabledSetting**

true: enable CAM. requires a license to enable.

Definition at line 28534 of file DCM.idl.

**8.72.5.184 boolean DCM::DeviceControl::DescrCAM\_Cfg\_t::bEnabledStatus**

readonly enabled status. Can be different from enabled setting if e.g. after reboot the necessary licenses are missing.

Definition at line 28509 of file DCM.idl.

**8.72.5.185 boolean DCM::DeviceControl::DescrCAM\_Cfg\_V2\_t::bEnabledStatus**

readonly enabled status. Can be different from enabled setting if e.g. after reboot the necessary licenses are missing.

Definition at line 28535 of file DCM.idl.

**8.72.5.186 boolean DCM::DeviceControl::DCG\_JP2K\_params\_t::bEnableTeleText**

Definition at line 31312 of file DCM.idl.

**8.72.5.187 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t::bEnableTeleText**

Definition at line 31332 of file DCM.idl.

**8.72.5.188 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t::bEnableTeleText**

Definition at line 31353 of file DCM.idl.

**8.72.5.189 boolean DCM::DeviceControl::DCG\_JP2K\_params\_t::bEnableVII**

Definition at line 31310 of file DCM.idl.

**8.72.5.190 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t::bEnableVII**

Definition at line 31330 of file DCM.idl.

**8.72.5.191 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t::bEnableVII**

Definition at line 31351 of file DCM.idl.

**8.72.5.192 boolean DCM::DeviceControl::DCG\_JP2K\_params\_t::bEnableVITC**

Definition at line 31309 of file DCM.idl.

**8.72.5.193 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t::bEnableVITC**

Definition at line 31329 of file DCM.idl.

**8.72.5.194 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t::bEnableVITC**

Definition at line 31350 of file DCM.idl.

**8.72.5.195 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t::bEnableVPS**

Definition at line 31335 of file DCM.idl.

**8.72.5.196 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t::bEnableVPS**

Definition at line 31356 of file DCM.idl.

**8.72.5.197 boolean DCM::DeviceControl::ASI\_DTF\_t::bEncapsulated**

true means output encapsulated in ghost PID, false means passed

Definition at line 21985 of file DCM.idl.

**8.72.5.198 boolean DCM::DeviceControl::ASI\_DTF\_Ex\_t::bEncapsulated**

True means output encapsulated in ghost PID, false means passed.

Definition at line 22003 of file DCM.idl.

**8.72.5.199 long DCM::DeviceControl::InPort\_8VSB\_Statistics\_t::BER**

(future) Bit Error Rate (errored bits per second).

Definition at line 7121 of file DCM.idl.

**8.72.5.200 unsigned long DCM::DeviceControl::InPort\_DvbS2\_Status\_t::BER**

units of 1E-10. Eg. 1000 represents 1E-7.

Definition at line 7557 of file DCM.idl.

**8.72.5.201 unsigned long DCM::DeviceControl::InPort\_DvbS2\_TunerCfg\_t::BER\_HighThreshold**

units of 1E-10. Valid values : 1, 10, 100, 1000, 10000, 100000, 1000000, 2000000 (corresponds to 1E-10 1E-9 1E-8 1E-7 1E-6 1E-5 1E-4 2E-4).

Definition at line 7439 of file DCM.idl.

**8.72.5.202 boolean DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbySettings\_t::bError-Concealment**

Error Concealment: [On default]/Off(false)

Definition at line 12554 of file DCM.idl.

**8.72.5.203 boolean DCM::DeviceControl::TC\_LogoDisplay\_t::bFade**

True if the fade in/out time should be respected. False for instant changes.

Definition at line 14082 of file DCM.idl.

**8.72.5.204 boolean DCM::DeviceControl::DCG\_AES\_GeneratorConfig\_t::bGenEnabled**

Definition at line 30806 of file DCM.idl.

**8.72.5.205 boolean DCM::DeviceControl::MFPB\_VideoEncodeSettings\_t::bHierarchical**

AVC only. Hierarchical layered structure, default disabled (ignored for transrating + see GopStructure constraints)

Definition at line 11014 of file DCM.idl.

**8.72.5.206 boolean DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::bHierarchical**

AVC only. Hierarchical layered structure, default disabled (ignored for transrating + see GopStructure constraints)

Definition at line 11184 of file DCM.idl.

**8.72.5.207 boolean DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t::bHierarchical**

AVC only. Hierarchical layered structure, default disabled.

Definition at line 11357 of file DCM.idl.

**8.72.5.208 boolean DCM::DeviceControl::IPS\_LookupTS\_t::bInput**

Indicates if it is an input or output TS.

Definition at line 2534 of file DCM.idl.

**8.72.5.209 boolean DCM::DeviceControl::MFPB\_AudioDecodeExtraAACSettings\_t::bIsCenter-Coefficient**

Center Coefficient Present Yes(true)/[No default].

Definition at line 12459 of file DCM.idl.

**8.72.5.210 boolean DCM::DeviceControl::TC\_BannerStatus\_t::bIsEAS\_Banner**

True if the banner is an EAS alert banner.

Definition at line 14050 of file DCM.idl.

**8.72.5.211 boolean DCM::DeviceControl::InPort\_DvbS2\_Status\_t::bIsLocked**

true if locked, false if not locked

Definition at line 7548 of file DCM.idl.



**8.72.5.212 ByteStream DCM::DeviceControl::ASI\_DTF\_t::BISS1ScramblingKey**

scrambling key should be 6 bytes long (scrambling is always even)

Definition at line 21991 of file DCM.idl.

**8.72.5.213 boolean DCM::DeviceControl::MFPB\_AudioDecodeExtraAACSettings\_t::bIsSurround-Coefficient**

Surround Coefficient Present Yes(true)/[No default].

Definition at line 12461 of file DCM.idl.

**8.72.5.214 unsigned long DCM::DeviceControl::IPS\_OutputTS\_t::Bitrate**

Bitrate of the outgoing TS (in bps).

- ASI port - Output Mode = packet - range: 0.1Mbps..200Mbps.
- ASI port - Output Mode = byte - range: 0.1Mbps..155Mbps.
- GbE port - range: 0.1 Mbps..950 Mbps (per udp port).

**Note**

The sum of all bitrates of TS's that are not paused on a GbE port can't be more than 950 Mbps.

Definition at line 2461 of file DCM.idl.

**8.72.5.215 unsigned long DCM::DeviceControl::IPS\_OutputTS\_V2\_t::Bitrate**

Bitrate of the outgoing TS (in bps).

- ASI port - Output Mode = packet - range: 0.1Mbps..200Mbps.
- ASI port - Output Mode = byte - range: 0.1Mbps..155Mbps.
- GbE port - range: 0.1 Mbps..950 Mbps (per udp port).

**Note**

The sum of all bitrates of TS's that are not paused on a GbE port can't be more than 950 Mbps.

Definition at line 2496 of file DCM.idl.

**8.72.5.216 unsigned long DCM::DeviceControl::ASI\_BW\_LimitData\_t::Bitrate**

Definition at line 6958 of file DCM.idl.

**8.72.5.217 unsigned long DCM::DeviceControl::MFPB\_VideoEncoderTemplate\_t::Bitrate**

Bitrate in bps The meaning of the bitrate depends on the enBitrateMode (.

## See also

[MFPB\\_VideoEncodeSettings\\_t](#)). For CBR : The constant output bit rate. (stuffed if needed) For CappedVBR : The maximum output bit rate. For Statmux : Backup bit rate when the [Statmux](#) controller cannot manage the [FEC Encoder](#) bitrate.

- SD, Mpeg2 range: 0.8-15 Mbps [3 Mbps by default]
- SD, Avc range: 0.3-12.5 Mbps [1.5 Mbps by default]
- HD, Mpeg2 range: 1-45 Mbps [15 Mbps by default]
- HD, Avc range: 0.5-25 Mbps [8 Mbps by default]

Definition at line 10958 of file DCM.idl.

#### 8.72.5.218 unsigned long DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t::Bitrate

(kbps) Range: 300 kbps-64 Mbps

Definition at line 11354 of file DCM.idl.

#### 8.72.5.219 unsigned long DCM::DeviceControl::MFPB\_AudioEncodeSettings\_t::Bitrate

Bitrate in bps.

Valid values (in kbps)

- MPEG-1 Layer II:
  - Mono: 32, 48, 56, 64, 80, 96, 112, 128, 160, 192, [Default 96]
  - Stereo + Dual Mono: 64, 96, 112, 128, 160, 192, 224, 256, 320, 384, [Default 192]
- Dolby Digital (AC-3):
  - Mono: 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 [Default 112]. Bitrates 384, 448, 576 and 640 will behave equivalent to 320 from release 10.10 onwards.
  - Stereo: 96, 112, 128, 160, 192, 224, 256, 320, 384, 448, 512, 576, 640 [Default 224].
  - 5.1: 192, 224, 256, 320, 384, 448, 512, 576, 640 [Default 384]
- AAC-LC:
  - Mono: full range [32 kbps to (output sample rate in kHz \* 6 \* 1)], 96 kbps by default
  - Dual Mono: not supported
  - Stereo: full range [32 kbps to (output sample rate in kHz \* 6 \* 2)], 128 kbps by default
  - 5.1: full range [64 kbps to (minimim between 640 kbps and { (25.2 \* output sample rate in Hz + 8000)/1000 } ], 160 kbps by default
- HE AAC v1:
  - Mono: full range [32 kbps to (output sample rate in kHz \* 3 \* 1)], 96 kbps by default
  - Dual Mono: not supported
  - Stereo: full range [32 kbps to (output sample rate in kHz \* 3 \* 2)], 128 kbps by default
  - 5.1: full range [64 kbps to (minimim between 576 kbps and { (12.6 \* output sample rate in Hz + 8000)/1000 } ], 160 kbps by default
- HE AAC v2:

- Mono: not support
- Dual Mono: not supported
- Stereo: full range [32 kbps to (output sample rate in kHz \* 3 \* 2)], 128 kbps by default
- 5.1: not supported
- Dolby Digital Plus:
  - Mono: 56, 64, 72, 80, 88, 96, 104, 112, 120, 128, 144, 160, 176, 192, 200, 208, 224, 232, 240, 248, 256, 272, 288, 304, 320 [Default 112].
  - Stereo + Dual Mono: 96, 104, 112, 120, 128, 144, 160, 176, 192, 200, 208, 224, 232, 240, 248, 256, 272, 288, 304, 320, 336, 352, 368, 384, 400, 448, 512, 576, 640 [Default 224].
  - 5.1: 192, 200, 208, 224, 232, 240, 248, 256, 272, 288, 304, 320, 336, 352, 368, 384, 400, 448, 512, 576, 640 [Default 384]

Note: If the samplerate is set to followinput, it is assumed the incoming samplerate is 48kHz. If the real input is different, the bitrate is set to the closed allowed value and the "Audio Bitrate Altered" alarm is raised. encoding bitrate Unit in [bps],

Definition at line 11770 of file DCM.idl.

#### **8.72.5.220 unsigned long DCM::DeviceControl::TC\_PipSettings\_t::Bitrate**

150 - 400kbps, in bps.

Definition at line 13111 of file DCM.idl.

#### **8.72.5.221 unsigned long DCM::DeviceControl::TC\_AudioSettings\_t::Bitrate**

8 - 128 kbps for HE-AAC, 8 - 576 kbps < for AAC-LC or 8 - 192 kbps for VBR. In bps.

Definition at line 13131 of file DCM.idl.

#### **8.72.5.222 unsigned long DCM::DeviceControl::TR\_GroupSettings\_t::BitRate**

The maximum bitrate that should be applied to the statmux group. This should be lower or equal to the output transport stream bandwidth in case of SingleTS\_xxx group types.

Definition at line 14982 of file DCM.idl.

#### **8.72.5.223 unsigned long DCM::DeviceControl::SMX\_MFP\_GroupSettings\_t::Bitrate**

The maximum bitrate that should be applied to the statmux group. This should be lower or equal to the output transport stream bandwidth in case of SingleTS\_xxx group types. In bits per second. Range: from 1Mbps to 950Mbps. REQUIREMENT: should be less than the bitrate associated with the location.

Definition at line 16162 of file DCM.idl.

#### **8.72.5.224 unsigned long DCM::DeviceControl::ASI\_DTF\_OutputTS\_t::Bitrate**

The outgoing bitrate of the DTF output in bps.

Definition at line 22035 of file DCM.idl.

#### **8.72.5.225 unsigned long DCM::DeviceControl::ASI\_DTF\_OutputTS\_Ex\_t::Bitrate**

The outgoing bitrate of the DTF output in bps.

Definition at line 22047 of file DCM.idl.

**8.72.5.226 unsigned long DCM::DeviceControl::SMX\_StatMuxPool::Bitrate**

Definition at line 23370 of file DCM.idl.

**8.72.5.227 unsigned long DCM::DeviceControl::SMX\_StatMuxPool\_V2::Bitrate**

Definition at line 23388 of file DCM.idl.

**8.72.5.228 unsigned long DCM::DeviceControl::DCG\_OutputTS\_t::Bitrate**

Bitrate of the outgoing TS (in bps).

in IP Video Gatewae, the only supported bitrates are 270Mbps (SD) (default), 1.5Gbps (HD) or 3Gbps (3G) or Unchecked (0xFFFFFFFF) < in IP audio Gateway, the only supported bitrates are 3.072 Mbps (48 kHz) or Unchecked (0xFFFFFFFF)

Definition at line 30080 of file DCM.idl.

**8.72.5.229 unsigned long DCM::DeviceControl::DCG\_AudioSignalInfo\_t::Bitrate**

Bitrate of audio signal (bit/s), future!

Definition at line 31209 of file DCM.idl.

**8.72.5.230 SMX36\_VSEBitRateMode\_e DCM::DeviceControl::SMX36\_VSE\_t::BitRateMode**

Default rate configuration mode manual or automatic.

Definition at line 24056 of file DCM.idl.

**8.72.5.231 SMX36\_VSEBitRateMode\_e DCM::DeviceControl::SMX36\_VSE\_V2\_t::BitRateMode**

Default rate configuration mode manual or automatic.

Definition at line 24075 of file DCM.idl.

**8.72.5.232 SMX36\_VSEBitRateMode\_e DCM::DeviceControl::SMX36\_VSE\_V3\_t::BitRateMode**

Default rate configuration mode manual or automatic.

Definition at line 24121 of file DCM.idl.

**8.72.5.233 SMX36\_VSEBitRateMode\_e DCM::DeviceControl::SMX36\_VSE\_V4\_t::BitRateMode**

Default rate configuration mode manual or automatic.

Definition at line 24172 of file DCM.idl.

**8.72.5.234 TR\_BitrateLimits\_t DCM::DeviceControl::TR\_ServiceSettings\_t::Bitrates**

The bitrates that apply to the service. Only relevant if the service mode is not passthrough.

Definition at line 15014 of file DCM.idl.

**8.72.5.235 TR\_BitrateLimits\_t DCM::DeviceControl::TR\_ServiceSettings\_V2\_t::Bitrates**

The bitrates that apply to the service. Only relevant if the service mode is not passthrough.

Definition at line 15459 of file DCM.idl.

**8.72.5.236 boolean DCM::DeviceControl::TR\_ServiceSettings\_t::BitratesOnVideo**

Read only flag that indicates if the bitrate limits apply on the whole service or only on the video part.

Definition at line 15015 of file DCM.idl.

**8.72.5.237 boolean DCM::DeviceControl::TR\_ServiceSettings\_V2\_t::BitratesOnVideo**

Read only flag that indicates if the bitrate limits apply on the whole service or only on the video part.

Definition at line 15461 of file DCM.idl.

**8.72.5.238 boolean DCM::DeviceControl::MFPB\_MPEGL2\_AudioSettings\_t::bJointStereoEnable**

Joint Stereo [true (enable) default, false (disable)].

Definition at line 11865 of file DCM.idl.

**8.72.5.239 boolean DCM::DeviceControl::VideoSignalInfo\_t::bJPEG2000**

Definition at line 30204 of file DCM.idl.

**8.72.5.240 boolean DCM::DeviceControl::IGMPv3Group\_t::bLeaveAllowed**

Definition at line 20128 of file DCM.idl.

**8.72.5.241 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bLFE\_LowPassFilter**

For Future functionality,.

Definition at line 12117 of file DCM.idl.

**8.72.5.242 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::bLFE\_LowPass-Filter**

LFE Low Pass Filter, [On(true), Off default], Only used if LFE channel is enabled.

Definition at line 12266 of file DCM.idl.

**8.72.5.243 boolean DCM::DeviceControl::MFPB\_AAC\_AudioSettings\_t::bLfeChannelEnable**

LFE Channel Enable default true.

Definition at line 11977 of file DCM.idl.

**8.72.5.244 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::bLfeChannelEnable**

LFE Channel Enable, [On (true) default, Off].

Definition at line 12262 of file DCM.idl.

**8.72.5.245 boolean DCM::DeviceControl::MFPB\_AudioStatus\_t::bLfeEnable**

LFE on(true)/off, only for AAC and Dolby.

Definition at line 11615 of file DCM.idl.

**8.72.5.246 boolean DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::bLfeEnable**

LFE on(true)/off, only for AAC and Dolby.

Definition at line 12676 of file DCM.idl.

**8.72.5.247 boolean DCM::DeviceControl::InPort\_DvbS2\_LncCfg\_t::bLncBias**

true to enable, false to disable (default)

Definition at line 7489 of file DCM.idl.

**8.72.5.248 boolean DCM::DeviceControl::ServiceBlockCAInfo\_t::blockCAInfo**

Indicates if the CA info needs to be blocked for the service If true, the EIT, SDT and PMT table is updates and ECM components are blocked.

Definition at line 4990 of file DCM.idl.

**8.72.5.249 octet DCM::DeviceControl::DCG\_GeneratorConfig\_t::BlueColorValue**

Definition at line 30741 of file DCM.idl.

**8.72.5.250 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bMainProductInfoExists**

Production Information Exists, [No (false) by default].

Definition at line 12122 of file DCM.idl.

**8.72.5.251 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::bMainProductInfo-Exists**

Production Information Exists, [No (false) by default].

Definition at line 12271 of file DCM.idl.

**8.72.5.252 boolean DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::bMainProductInfoExists**

Audio Production Info Exists.

Definition at line 12683 of file DCM.idl.

**8.72.5.253 boolean DCM::DeviceControl::MFPB\_MPEG2FramePicturesCfg\_t::bMPEG2Frame-Picture**

Enable (true) or default disable (false) MPEG-2 Frame Pictures.

Definition at line 10472 of file DCM.idl.

**8.72.5.254 boolean DCM::DeviceControl::NicTeam\_Settings::bNicTeam\_Enabled**

Definition at line 2190 of file DCM.idl.

**8.72.5.255 TC\_BoardCfg\_t DCM::DeviceControl::TC\_PossibleBoardCfg\_t::BoardCfg**

Definition at line 12841 of file DCM.idl.

**8.72.5.256 TC\_BoardCfg\_V2\_t DCM::DeviceControl::TC\_PossibleBoardCfg\_V2\_t::BoardCfg**

Definition at line 12863 of file DCM.idl.

**8.72.5.257 string DCM::DeviceControl::BoardIdentification::BoardName**

Definition at line 1283 of file DCM.idl.

**8.72.5.258 unsigned short DCM::DeviceControl::IPS\_Ref\_t::BoardNr**

The board location the board sits in.

- BoardNr = 0 => Main board
- BoardNr for the I/O boards when looking at the back of the device

|   |   |
|---|---|
| 3 | 4 |
| 1 | 2 |

and for a MkII device with 2-layer boards:

|     |     |
|-----|-----|
| 3/7 | 4/8 |
| 1/5 | 2/6 |

Definition at line 396 of file DCM.idl.

**8.72.5.259 unsigned short DCM::DeviceControl::BoardFeatureUsage\_t::BoardNr**

the slot number.

Definition at line 20709 of file DCM.idl.

**8.72.5.260 unsigned short DCM::DeviceControl::SMX\_PoolRef\_t::BoardNr**

Definition at line 23349 of file DCM.idl.

**8.72.5.261 unsigned long DCM::DCM\_Notifications::Messages::BoardNr**

Definition at line 32236 of file DCM.idl.

**8.72.5.262 unsigned long DCM::DCM\_Notifications::DCM\_TsIdOnIdChange::BoardNr**

Definition at line 32259 of file DCM.idl.

**8.72.5.263 unsigned long DCM::DCM\_Notifications::Output\_TS\_Change::BoardNr**

Definition at line 32273 of file DCM.idl.

**8.72.5.264 unsigned long DCM::DCM\_Notifications::Output\_TS\_Delete::BoardNr**

Definition at line 32287 of file DCM.idl.

**8.72.5.265 unsigned short DCM::DeviceControl::BoardInfo\_t::BoardNumber**

The board location the board sits in.

Board numbering: cfr [IPS\\_Ref\\_t](#)

Definition at line 1565 of file DCM.idl.

**8.72.5.266 unsigned short DCM::DeviceControl::BoardInfo\_V2\_t::BoardNumber**

The board location the board sits in.

Board numbering: cfr [IPS\\_Ref\\_t](#)

Definition at line 1577 of file DCM.idl.

**8.72.5.267 eBoardType DCM::DeviceControl::BoardInfo\_t::BoardType**

The type. See DCM\_Types.idl.

Definition at line 1568 of file DCM.idl.

**8.72.5.268 eBoardType\_V2 DCM::DeviceControl::BoardInfo\_V2\_t::BoardType**

The type. See DCM\_Types.idl.

Definition at line 1580 of file DCM.idl.

**8.72.5.269 eTR\_BoardTypeDelay DCM::DeviceControl::TR\_DelayMode\_t::BoardTypeDelay**

One of the possible predefined board delay settings of the input stream.

Definition at line 14953 of file DCM.idl.

**8.72.5.270 eTR\_BoardTypeDelay DCM::DeviceControl::TR\_DelayMode\_V2\_t::BoardTypeDelay**

One of the possible predefined board delay settings of the input stream.

Definition at line 14963 of file DCM.idl.

**8.72.5.271 VersionInfoList DCM::DeviceControl::BoardIdentification::BoardVersion**

Definition at line 1289 of file DCM.idl.

**8.72.5.272 unsigned long DCM::DCM\_Notifications::DCM\_TsIdOnIdChange::bOnlyScramblingTS**

boolean to notify only TS's with licenses are reported

Definition at line 32258 of file DCM.idl.

**8.72.5.273 boolean DCM::DeviceControl::MFPB\_AudioEncodeSettings\_t::bOriginal**

Not used (behaviour is follow input, or true if not available), Original, [yes (true) by default].

Definition at line 11778 of file DCM.idl.

**8.72.5.274 boolean DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::bOriginal**

Original, yes (true)/no.

Definition at line 12702 of file DCM.idl.

**8.72.5.275 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::bPhaseShift**

For Future functionality.

Definition at line 12118 of file DCM.idl.

**8.72.5.276 boolean DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::bPhaseShift**

Surround 90 deg Phase Shift, [On(true), Off default], Only used if LFE channel is enabled.

Definition at line 12267 of file DCM.idl.



**8.72.5.277 boolean DCM::DeviceControl::IIOP\_SubTable\_t::bPureImport**

indicates if playout is identical to binary data. This parameter is not taken into account in the Delete-ImportedSubTableL call.

Definition at line 8397 of file DCM.idl.

**8.72.5.278 boolean DCM::DeviceControl::ASI\_DTF\_RDCS\_t::bRDCS**

True means stream consists of a Remultiplexer Data and Control Stream.

Definition at line 22017 of file DCM.idl.

**8.72.5.279 boolean DCM::DeviceControl::DescrCAM\_Status\_t::bReady**

initialized and ready for descrambling

Definition at line 28693 of file DCM.idl.

**8.72.5.280 boolean DCM::DeviceControl::ASI\_DTF\_t::bRemoveStuffing**

if true and bEncapsulated is false, then the original stuffing packets are removed

Definition at line 21986 of file DCM.idl.

**8.72.5.281 boolean DCM::DeviceControl::ASI\_DTF\_Ex\_t::bRemoveStuffing**

If true and bEncapsulated is false, then the original stuffing packets are removed.

Definition at line 22004 of file DCM.idl.

**8.72.5.282 boolean DCM::DeviceControl::DescrCAM\_Cfg\_t::bResetOnFailure**

true: reset CAM if descrambling fails on all services False: do not reset. Default value is true.

Definition at line 28512 of file DCM.idl.

**8.72.5.283 boolean DCM::DeviceControl::DescrCAM\_Cfg\_V2\_t::bResetOnFailure**

true: reset CAM if descrambling fails on all services False: do not reset. Default value is true.

Definition at line 28538 of file DCM.idl.

**8.72.5.284 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Broadcast**

Broadcast frames.

Definition at line 19857 of file DCM.idl.

**8.72.5.285 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::Broadcast**

Broadcast frames.

Definition at line 19877 of file DCM.idl.

**8.72.5.286 boolean DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t::bSDI20BitAudio**

Definition at line 31357 of file DCM.idl.

**8.72.5.287 boolean DCM::DeviceControl::GPS\_Status\_t::bStatus10MHz**

Definition at line 29184 of file DCM.idl.

**8.72.5.288 boolean DCM::DeviceControl::GPS\_Status\_t::bStatus1PPS**

Definition at line 29185 of file DCM.idl.

**8.72.5.289 boolean DCM::DeviceControl::EasConfig\_t::bTextCrawl**

enable participation of the proxy in text crawl generation.

Definition at line 28999 of file DCM.idl.

**8.72.5.290 eServiceBackupMode\_t DCM::DeviceControl::ServiceBackupParams2\_t::BU\_Mode**

Definition at line 23096 of file DCM.idl.

**8.72.5.291 eDCG\_StreamBackupMode\_t DCM::DeviceControl::DCG\_StreamBackupParams\_t::BU\_Mode**

Definition at line 30991 of file DCM.idl.

**8.72.5.292 short DCM::DeviceControl::VersionParts::BuildNumber**

Definition at line 1266 of file DCM.idl.

**8.72.5.293 boolean DCM::DeviceControl::ASI\_DTF\_OutputTS\_Ex\_t::bUseMainScramblingKey-Index**

True to use the main scrambling key index for all inputs, false to use individual input key indices.

Definition at line 22049 of file DCM.idl.

**8.72.5.294 boolean DCM::DeviceControl::ASI\_DTF\_OutputTS\_Ex\_t::bUseMainScramblingType**

True to use the main scrambling type for all inputs, false to use individual input types.

Definition at line 22051 of file DCM.idl.

**8.72.5.295 boolean DCM::DeviceControl::TC\_ServiceDataV2\_t::bUseTagAsSvcName**

True (default) use usertag as service name (will be inserted in the SDT). TODO exact behaviour < Default false for main/pip services, default true for multires services.

Definition at line 5609 of file DCM.idl.

**8.72.5.296 unsigned long long DCM::DeviceControl::GbEStatisticsEntry\_t::BytesRx**

Bytes received.

Definition at line 19905 of file DCM.idl.

**8.72.5.297 unsigned long long DCM::DeviceControl::GbEStatisticsEntry\_t::BytesTx**

Bytes transmitted.

Definition at line 19906 of file DCM.idl.

**8.72.5.298 eCaMode DCM::DeviceControl::IPS\_SDT\_Data\_t::CAmodeOut**

RW (Transparent, Not Scrambled, CA Present)

Definition at line 4856 of file DCM.idl.

**8.72.5.299 IPS\_Ref\_t DCM::DeviceControl::DescrCAM\_Cfg\_t::CamRef**

CAM identification.

Definition at line 28507 of file DCM.idl.

**8.72.5.300 IPS\_Ref\_t DCM::DeviceControl::DescrCAM\_Cfg\_V2\_t::CamRef**

CAM identification.

Definition at line 28533 of file DCM.idl.

**8.72.5.301 IPS\_Ref\_t DCM::DeviceControl::DescrCAM\_Status\_t::CamRef**

CAM identification.

Definition at line 28692 of file DCM.idl.

**8.72.5.302 string DCM::DeviceControl::DescrCAM\_Status\_t::CamSerialNr**

CAM serial number.

Definition at line 28697 of file DCM.idl.

**8.72.5.303 eCaPmtListManagement\_t DCM::DeviceControl::DescrCAM\_Cfg\_V2\_t::CaPmtList-  
Management**

CA PMT list management for updates towards CAM.

Definition at line 28541 of file DCM.idl.

**8.72.5.304 TC\_CaptionInfoList\_t DCM::DeviceControl::MFPB\_ES\_CaptionInfo\_t::CaptionInfoList**

factory default: empty list. In "Add" mode, a non-empty list must be present.

Definition at line 12618 of file DCM.idl.

**8.72.5.305 TC\_CaptionInfoList\_t DCM::DeviceControl::TC\_ES\_CaptionInfo\_t::CaptionInfoList**

factory default: empty list. In "Add" mode, a non-empty list must be present.

Definition at line 13252 of file DCM.idl.

**8.72.5.306 enTC\_CaptionDescriptorMode\_t DCM::DeviceControl::MFPB\_ES\_CaptionInfo\_t::-  
CaptionMode**

Definition at line 12617 of file DCM.idl.

**8.72.5.307 enTC\_CaptionDescriptorMode\_t DCM::DeviceControl::TC\_ES\_CaptionInfo\_t::Caption-  
Mode**

Definition at line 13251 of file DCM.idl.

**8.72.5.308** `octet DCM::DeviceControl::TC_CaptionInfo_t::CaptionSvcNbr`

value in the range 1 to 63. Only interpreted if DigitalCC == 1

Definition at line 10176 of file DCM.idl.

**8.72.5.309** `string DCM::DeviceControl::SMX36_StatmuxController_t::CardName`

RO (CardName) Board of the statmux controller.

Definition at line 23727 of file DCM.idl.

**8.72.5.310** `unsigned long long DCM::DeviceControl::GbEFramesTrans_t::CarrierSense`

No carrier sense.

Definition at line 19897 of file DCM.idl.

**8.72.5.311** `long DCM::DeviceControl::IPS_OutPID_Data2_t::CASystemID`

Only for EMMs: to which CA system does the EMM belong.

Definition at line 2597 of file DCM.idl.

**8.72.5.312** `long DCM::DeviceControl::IPS_InPID_Data_t::CASystemID`

Only for EMMs: to which CA system does the EMM belong.

Definition at line 2606 of file DCM.idl.

**8.72.5.313** `long DCM::DeviceControl::IPS_InPID_Data_V2_t::CASystemID`

Only for EMMs: to which CA system does the EMM belong.

Definition at line 2615 of file DCM.idl.

**8.72.5.314** `long DCM::DeviceControl::IPS_Out_ECMSettings_t::CASystemID`

To which CA system does the ECM belong.

Definition at line 5912 of file DCM.idl.

**8.72.5.315** `long DCM::DeviceControl::IPS_In_ECMSettings_t::CASystemID`

To which CA system does the ECM belong.

Definition at line 5986 of file DCM.idl.

**8.72.5.316** `sequence<string> DCM::DeviceControl::DescrCAM_Status_t::CaSystemId`

supported CA System Ids

Definition at line 28698 of file DCM.idl.

**8.72.5.317** `unsigned short DCM::DeviceControl::BoardDejitterCfg_t::CbrLatency`

The CBR dejitter latency in msec, should be 10 <= latency <= 110.

Definition at line 2962 of file DCM.idl.

**8.72.5.318** `enDCG_3G_Topology_t DCM::DeviceControl::DCG_Possible3GBoardCfg_t::Cfg_3G`

Definition at line 31119 of file DCM.idl.

**8.72.5.319** `unsigned long DCM::DeviceControl::EMM_Data_t::ChannelID`

Definition at line 2638 of file DCM.idl.

**8.72.5.320** `unsigned short DCM::DeviceControl::PSIGSubTable_t::ChannelId`

PSIG protocol channel ID.

Definition at line 8344 of file DCM.idl.

**8.72.5.321** `string DCM::DeviceControl::DPI_ChannelName_t::ChannelName`

max 32 characters, must be 0 terminated

Definition at line 16990 of file DCM.idl.

**8.72.5.322** `short DCM::DeviceControl::InPort_8VSB_TuningParams_t::ChannelNbr`

A value from 1 to 82. Negative if frequency is used.

Definition at line 7080 of file DCM.idl.

**8.72.5.323** `octet DCM::DeviceControl::TC_Question_t::ChoicesToMake`

Definition at line 12888 of file DCM.idl.

**8.72.5.324** `unsigned short DCM::DeviceControl::DCG_JP2K_params_t::ChromaWeight`

Definition at line 31305 of file DCM.idl.

**8.72.5.325** `unsigned short DCM::DeviceControl::DCG_JP2K_params_V2_t::ChromaWeight`

Definition at line 31325 of file DCM.idl.

**8.72.5.326** `unsigned short DCM::DeviceControl::DCG_JP2K_params_V3_t::ChromaWeight`

Definition at line 31346 of file DCM.idl.

**8.72.5.327** `MsgClass DCM::DeviceControl::MM_MessageMainPart::Class`

communication, processing, ...

Definition at line 22316 of file DCM.idl.

**8.72.5.328** `boolean DCM::DeviceControl::ClearPidBitrates_t::ClearPidBitrates`

Definition at line 17638 of file DCM.idl.

**8.72.5.329** `unsigned long DCM::DeviceControl::EMM_Data_t::ClientID`

Definition at line 2637 of file DCM.idl.

**8.72.5.330** `ClipID_t DCM::DeviceControl::SlateService_t::ClipID`

Definition at line 16798 of file DCM.idl.

**8.72.5.331 ContentMode DCM::DeviceControl::SMX\_StatMuxPool::CM\_Mode**

Definition at line 23372 of file DCM.idl.

**8.72.5.332 ContentMode DCM::DeviceControl::SMX\_StatMuxPool\_V2::CM\_Mode**

Definition at line 23390 of file DCM.idl.

**8.72.5.333 short DCM::DeviceControl::InPort\_DvbS2\_Status\_t::CN\_Level**

-30..50 dB. Units of 0.1 dB. Eg. 312 represents 31,2 dB

Definition at line 7555 of file DCM.idl.

**8.72.5.334 short DCM::DeviceControl::InPort\_DvbS2\_Status\_t::CN\_Margin**

-30..50 dB. Units of 0.1 dB. Eg. 120 represents 12,0 dB

Definition at line 7556 of file DCM.idl.

**8.72.5.335 unsigned short DCM::DeviceControl::InPort\_DvbS2\_TunerCfg\_t::CN\_MarginLow-Threshold**

1..10 dB. Units of 0.1 dB. Eg. 105 represents 10,5 dB

Definition at line 7438 of file DCM.idl.

**8.72.5.336 eTR\_CoarseDelay DCM::DeviceControl::TR\_DelayMode\_t::CoarseDelay**

Coarse setting of the delay of the transrater board. Based on this value, the other values of the structure has to be interpreted.

Definition at line 14951 of file DCM.idl.

**8.72.5.337 eTR\_CoarseDelay\_V2 DCM::DeviceControl::TR\_DelayMode\_V2\_t::CoarseDelay**

Coarse setting of the delay of the transrater board. Based on this value, the other values of the structure has to be interpreted.

Definition at line 14961 of file DCM.idl.

**8.72.5.338 unsigned short DCM::DeviceControl::SMX36\_NetworkQoS\_t::codePoint**

(mode Differentiated) Differentiated Service code Point range [0-255].

Definition at line 23646 of file DCM.idl.

**8.72.5.339 IPS\_UDP\_Socket\_t DCM::DeviceControl::DCG\_OutputFecGBE\_t::col**

Destination UDP socket for FEC COL.

Definition at line 30145 of file DCM.idl.

**8.72.5.340 IPS\_UDP\_Socket\_t DCM::DeviceControl::FEC\_Dec\_Setting\_t::ColFEC**

Definition at line 19122 of file DCM.idl.

**8.72.5.341 IPS\_UDP\_Socket\_t DCM::DeviceControl::FEC\_Enc\_Setting\_t::ColFEC**

for 4.0 release, IP = IP TS and UDP = UDP TS + 2

Definition at line 19370 of file DCM.idl.

**8.72.5.342 unsigned short DCM::DeviceControl::InTS\_FEC\_Dec\_DefRuleSetting\_t::ColFEC\_Offset**

Definition at line 19149 of file DCM.idl.

**8.72.5.343 unsigned short DCM::DeviceControl::FEC\_Dec\_Status\_t::ColFEC\_Overhead**

in percentage fixed point 2 digit (x100)

Definition at line 19181 of file DCM.idl.

**8.72.5.344 unsigned short DCM::DeviceControl::FEC\_Enc\_Overhead\_t::ColFEC\_Overhead**

in percentage fixed point 2 digit (x100), e.g. 10% -> 1000

Definition at line 19453 of file DCM.idl.

**8.72.5.345 boolean DCM::DeviceControl::FEC\_Dec\_Status\_t::ColFEC\_Present**

Definition at line 19177 of file DCM.idl.

**8.72.5.346 unsigned short DCM::DeviceControl::OutTS\_FEC\_Enc\_DefSetting\_t::ColFecOffset**

default value column offset = 2 (fixed for 4.0 release)

Definition at line 19415 of file DCM.idl.

**8.72.5.347 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::CollisionAbort**

Frames aborted by collisions.

Definition at line 19896 of file DCM.idl.

**8.72.5.348 eSDI\_ColorOutputMode\_t DCM::DeviceControl::DCG\_GeneratorConfig\_t::ColorOutputMode**

only Static mode supported

Definition at line 30737 of file DCM.idl.

**8.72.5.349 enFCS\_Scte35\_Commands DCM::DeviceControl::FCS\_Scte35\_CommandSelect\_t::CommandSelect**

Definition at line 8775 of file DCM.idl.

**8.72.5.350 DCG\_InputTS\_t DCM::DeviceControl::DCG\_InputRTP\_Stream\_t::Common**

Definition at line 30004 of file DCM.idl.

**8.72.5.351 DCG\_InputTS\_t DCM::DeviceControl::DCG\_InputRTP\_Stream\_V2\_t::Common**

Definition at line 30026 of file DCM.idl.

**8.72.5.352 DCG\_InputTS\_t DCM::DeviceControl::DCG\_InputRTP\_Stream\_V3\_t::Common**

Definition at line 30042 of file DCM.idl.

**8.72.5.353 DCG\_OutputTS\_t DCM::DeviceControl::DCG\_OutputRTP\_Stream\_t::Common**

Definition at line 30105 of file DCM.idl.

**8.72.5.354 DCG\_OutputTS\_t DCM::DeviceControl::DCG\_OutputRTP\_V2\_Stream\_t::Common**

Definition at line 30124 of file DCM.idl.

**8.72.5.355 string DCM::DeviceControl::SNMPCommunity::Community**

Max 40 char.

Definition at line 1165 of file DCM.idl.

**8.72.5.356 CompactCaMode\_t DCM::DeviceControl::InTS\_CompactCaMode\_t::CompactCaMode**

Definition at line 8117 of file DCM.idl.

**8.72.5.357 string DCM::DeviceControl::DescrCAM\_Status\_t::CompanyName**

CAM company name.

Definition at line 28701 of file DCM.idl.

**8.72.5.358 string DCM::DeviceControl::VersionInfo::ComponentName**

MAX string length = 20.

Definition at line 1272 of file DCM.idl.

**8.72.5.359 DescrTrackingRuleList\_t DCM::DeviceControl::DescrSvcConfig\_t::Components**

non-empty if component level descrambling

Definition at line 28451 of file DCM.idl.

**8.72.5.360 ComponentTemperature\_List\_t DCM::DeviceControl::BoardTemperature\_t::Component-Temperature\_List**

Definition at line 1955 of file DCM.idl.

**8.72.5.361 octet DCM::DeviceControl::MultipleStringSegment\_t::CompressionType**

Definition at line 8829 of file DCM.idl.

**8.72.5.362 enDCG\_CompressionMode\_t DCM::DeviceControl::DCG\_CompressionEnable\_t::CompressMode**

Definition at line 31249 of file DCM.idl.

**8.72.5.363 enDCG\_JP2K\_CompressionMode\_t DCM::DeviceControl::DCG\_JP2K\_params\_t::CompressMode**

Definition at line 31303 of file DCM.idl.

**8.72.5.364 enDCG\_JP2K\_CompressionMode\_t DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t::CompressMode**

Definition at line 31323 of file DCM.idl.



**8.72.5.365** `enDCG_JP2K_CompressionMode_t DCM::DeviceControl::DCG_JP2K_params_V3_t::CompressMode`

Definition at line 31344 of file DCM.idl.

**8.72.5.366** `IPS_RefTS_t DCM::DeviceControl::DCG_OutputTS_t::ConfiguredRefIn`

Definition at line 30096 of file DCM.idl.

**8.72.5.367** `eDvbS2_Constellation_t DCM::DeviceControl::InPort_DvbS2_Status_t::Constellation`

Constellation.

Definition at line 7559 of file DCM.idl.

**8.72.5.368** `MultipleString_t DCM::DeviceControl::ETTV_ContentSetting_t::Content`

Definition at line 9643 of file DCM.idl.

**8.72.5.369** `unsigned long long DCM::DeviceControl::GbEFramesRecv_t::Control`

Control frames.

Definition at line 19866 of file DCM.idl.

**8.72.5.370** `unsigned long long DCM::DeviceControl::GbEFramesTrans_t::Control`

Control frames.

Definition at line 19879 of file DCM.idl.

**8.72.5.371** `unsigned short DCM::DeviceControl::GPI_StatusControl_t::Control`

current gpi pin control (drive pin)

Definition at line 31590 of file DCM.idl.

**8.72.5.372** `unsigned long DCM::DeviceControl::SMX36_Pool_t::controllerId`

RO Statmux controller Id of the board where the pool is running if allocated else 0.

Definition at line 23785 of file DCM.idl.

**8.72.5.373** `unsigned long DCM::DeviceControl::SMX36_Pool_V2_t::controllerId`

RO Statmux controller Id of the board where the pool is running if allocated else 0.

Definition at line 23805 of file DCM.idl.

**8.72.5.374** `SMX36_CoS_e DCM::DeviceControl::SMX36_NetworkQoS_t::CoS`

(mode ToS\_CoS\_Precedence) CoS value.

Definition at line 23645 of file DCM.idl.

**8.72.5.375** `long DCM::DeviceControl::Feature_t::Count`

Definition at line 20542 of file DCM.idl.

**8.72.5.376 unsigned long DCM::DeviceControl::TC\_VideoEncodeSettings\_t::CPB\_Delay**

Maximum CPB removal delay, in ms. 500 - 1500 ms, and between (service delay - 1306) and (service delay - 452).

Definition at line 13019 of file DCM.idl.

**8.72.5.377 unsigned long DCM::DeviceControl::TC\_VideoSettings\_t::CPB\_Delay**

Maximum CPB removal delay, in ms. 500 - 1500 ms, and between (service delay - 1306) and (service delay - 452).

Definition at line 13068 of file DCM.idl.

**8.72.5.378 unsigned long DCM::DeviceControl::TC\_PipSettings\_t::CPB\_Delay**

Maximum CPB removal delay, in ms. 500 - 1500 ms, and between (service delay - 1306) and (service delay - 452).

Definition at line 13113 of file DCM.idl.

**8.72.5.379 unsigned long DCM::DeviceControl::InTS\_AES\_Statistic\_t::crc\_ch\_status\_ch0\_1day**

AES channel 0 channel status CRC errors over the last day.

Definition at line 30935 of file DCM.idl.

**8.72.5.380 unsigned long DCM::DeviceControl::InTS\_AES\_Statistic\_t::crc\_ch\_status\_ch0\_1hour**

AES channel 0 channel status CRC errors over the last hour.

Definition at line 30934 of file DCM.idl.

**8.72.5.381 unsigned long DCM::DeviceControl::InTS\_AES\_Statistic\_t::crc\_ch\_status\_ch0\_1min**

AES channel 0 channel status CRC errors over the last minute.

Definition at line 30933 of file DCM.idl.

**8.72.5.382 unsigned long DCM::DeviceControl::InTS\_AES\_Statistic\_t::crc\_ch\_status\_ch1\_1day**

AES channel 0 channel status CRC errors over the last day.

Definition at line 30938 of file DCM.idl.

**8.72.5.383 unsigned long DCM::DeviceControl::InTS\_AES\_Statistic\_t::crc\_ch\_status\_ch1\_1hour**

AES channel 0 channel status CRC errors over the last hour.

Definition at line 30937 of file DCM.idl.

**8.72.5.384 unsigned long DCM::DeviceControl::InTS\_AES\_Statistic\_t::crc\_ch\_status\_ch1\_1min**

AES channel 0 channel status CRC errors over the last minute.

Definition at line 30936 of file DCM.idl.

**8.72.5.385 unsigned long DCM::DeviceControl::InTS\_Statistic\_t::crc\_edh\_1day**

Definition at line 30896 of file DCM.idl.

**8.72.5.386 unsigned long DCM::DeviceControl::InTS\_Statistic\_t::crc\_edh\_1hour**

Definition at line 30895 of file DCM.idl.

**8.72.5.387 unsigned long DCM::DeviceControl::InTS\_Statistic\_t::crc\_edh\_1min**

Definition at line 30894 of file DCM.idl.

**8.72.5.388 unsigned short DCM::DeviceControl::ASI\_SFN\_MKII\_RDCS\_Settings\_t::CRSP - Interval**

Range 10--1000 ms, in steps of 1.

Definition at line 29540 of file DCM.idl.

**8.72.5.389 unsigned long DCM::DeviceControl::BitRateMeasurement\_t::CurBitRate**

Current BitRate: 1 bit/s resolution - max  $2^{32}-1$ .

Definition at line 9781 of file DCM.idl.

**8.72.5.390 MsgSeverity DCM::DeviceControl::MM\_Measurement::CurrentSeverity**

Definition at line 22582 of file DCM.idl.

**8.72.5.391 unsigned short DCM::DeviceControl::ASI\_SFN\_MKII\_RDCS\_Settings\_t::CYTS\_Delay**

Range 5--100 ms, in steps of 1.

Definition at line 29541 of file DCM.idl.

**8.72.5.392 unsigned short DCM::DeviceControl::FEC\_Dec\_Status\_t::D\_ColDepth**

Definition at line 19179 of file DCM.idl.

**8.72.5.393 unsigned short DCM::DeviceControl::FEC\_Enc\_Setting\_t::D\_ColDepth**

default value D = 6

Definition at line 19372 of file DCM.idl.

**8.72.5.394 unsigned short DCM::DeviceControl::FEC\_Enc\_Setting\_V2\_t::D\_ColDepth**

default value D = 6

Definition at line 19393 of file DCM.idl.

**8.72.5.395 unsigned short DCM::DeviceControl::OutTS\_FEC\_Enc\_DefSetting\_t::D\_ColDepth**

note: the name of this member changed from 5.0->5.1 The old name was D\_RowWidth

Definition at line 19420 of file DCM.idl.

**8.72.5.396 ByteStream DCM::DeviceControl::MultipleStringSegment\_t::Data**

String segment in UTF-8 format.

Definition at line 8831 of file DCM.idl.

**8.72.5.397 VCT\_Data.t DCM::DeviceControl::VCT\_SvcInput\_t::Data**

Definition at line 9072 of file DCM.idl.

**8.72.5.398 ByteStream DCM::DeviceControl::AC\_t::Data**

buffer for AC data (a sequence of chars)

Definition at line 27635 of file DCM.idl.

**8.72.5.399 Scte35Data\_DCM\_input\_switch.t DCM::DeviceControl::Scte35CommandAndData\_t::Data\_DCM\_input\_switch**

Definition at line 8680 of file DCM.idl.

**8.72.5.400 Scte35Data\_Keyer.t DCM::DeviceControl::Scte35CommandAndData\_t::Data\_Keyer**

Definition at line 8685 of file DCM.idl.

**8.72.5.401 Scte35Data\_Keyer\_config.t DCM::DeviceControl::Scte35CommandAndData\_t::Data\_Keyer\_config**

Definition at line 8686 of file DCM.idl.

**8.72.5.402 Scte35Data\_Local\_avail.t DCM::DeviceControl::Scte35CommandAndData\_t::Data\_Local\_avail**

Definition at line 8683 of file DCM.idl.

**8.72.5.403 Scte35Data\_Logo\_enable.t DCM::DeviceControl::Scte35CommandAndData\_t::Data\_Logo\_Enable**

Definition at line 8687 of file DCM.idl.

**8.72.5.404 Scte35Data\_Network\_active.t DCM::DeviceControl::Scte35CommandAndData\_t::Data\_Network\_active**

Definition at line 8682 of file DCM.idl.

**8.72.5.405 Scte35Data\_REDUS\_Switch.t DCM::DeviceControl::Scte35CommandAndData\_t::Data\_REDUS\_Switch**

Definition at line 8679 of file DCM.idl.

**8.72.5.406 Scte35Data\_REDUS\_Switch\_Single.t DCM::DeviceControl::Scte35CommandAndData\_t::Data\_REDUS\_Switch\_single**

Definition at line 8689 of file DCM.idl.

**8.72.5.407 Scte35Data\_Select\_now.t DCM::DeviceControl::Scte35CommandAndData\_t::Data\_Select\_now**

Definition at line 8681 of file DCM.idl.

**8.72.5.408 unsigned long DCM::DeviceControl::BoardBitrateThreshold::DataBitrateThreshold**

Bitrate threshold for data PIDs - in bps.

Definition at line 22820 of file DCM.idl.

**8.72.5.409 unsigned long DCM::DeviceControl::EMM\_Data\_t::DataID**

Definition at line 2640 of file DCM.idl.

**8.72.5.410 string DCM::DeviceControl::Feature\_t::Date**

Max string length 36.

Definition at line 20540 of file DCM.idl.

**8.72.5.411 unsigned short DCM::DeviceControl::BoardTemperature\_t::DaughterBoard**

The daughter board identification as returned in BoardsConnected.

0: The board itself (main or I/O) 1: Co-processor 2: FEC

Definition at line 1950 of file DCM.idl.

**8.72.5.412 octet DCM::DeviceControl::Time::DayOfMonth**

From 1 to 28, 29, 30 or 31.

Definition at line 460 of file DCM.idl.

**8.72.5.413 enTslInputSwitchMode DCM::DeviceControl::Scte35Data\_DCM\_input\_switch\_t::DCM\_local\_autoswitch**

Definition at line 8627 of file DCM.idl.

**8.72.5.414 enTslInputSwitchSource DCM::DeviceControl::Scte35Data\_DCM\_input\_switch\_t::DCM\_local\_input**

Definition at line 8626 of file DCM.idl.

**8.72.5.415 enTslInputSwitchMode DCM::DeviceControl::Scte35Data\_DCM\_input\_switch\_t::DCM\_radio\_autoswitch**

Definition at line 8625 of file DCM.idl.

**8.72.5.416 enTslInputSwitchSource DCM::DeviceControl::Scte35Data\_DCM\_input\_switch\_t::DCM\_radio\_input**

Definition at line 8624 of file DCM.idl.

**8.72.5.417 MFPB\_DD\_MetaDecStatusList.t DCM::DeviceControl::MFPB\_ServiceDD\_MetaDecStatus\_t::DD\_MetaDecStatusL**

Definition at line 12723 of file DCM.idl.

**8.72.5.418 MFPB\_DD\_MetaStatus.t DCM::DeviceControl::MFPB\_DD\_MetaDecStatus\_t::DD\_MetaStatus**

Status of the meta data.

Definition at line 12712 of file DCM.idl.

**8.72.5.419 MFPB\_VideoStatus.t DCM::DeviceControl::MFPB\_VideoInformation\_t::DecoderStatus**

Definition at line 10647 of file DCM.idl.

**8.72.5.420 MFPB\_AudioStatus.t DCM::DeviceControl::MFPB\_AudioInformation\_t::DecoderStatus**

Definition at line 11622 of file DCM.idl.

**8.72.5.421 string DCM::DeviceControl::BannerCfg\_V2\_t::DefaultBannerText**

Default banner text, encoded in UTF-8, If the text is empty (contains no characters) and the default banner text must be used, the banner is not displayed.

Definition at line 13977 of file DCM.idl.

**8.72.5.422 string DCM::DeviceControl::IP\_Subnet\_t::DefaultGateway**

Definition at line 2065 of file DCM.idl.

**8.72.5.423 RipSettings.t DCM::DeviceControl::RipBoardSettings::Defaults**

Definition at line 31934 of file DCM.idl.

**8.72.5.424 boolean DCM::DeviceControl::LogoCfg\_t::DefaultShow**

True if the logo should be displayed by default.

Definition at line 13818 of file DCM.idl.

**8.72.5.425 unsigned long DCM::DeviceControl::SMX\_Encoder\_t::DefBitrate**

Definition at line 23465 of file DCM.idl.

**8.72.5.426 unsigned long DCM::DeviceControl::SMX36\_VSEParams\_t::DefBitrate**

(bps) Default bitrate. Range (200.000 -> 60.000.000)

Definition at line 24002 of file DCM.idl.

**8.72.5.427 unsigned long DCM::DeviceControl::SMX36\_VSEParams\_V2\_t::DefBitrate**

(bps) Default bitrate. Range (200.000 -> 60.000.000)

Definition at line 24013 of file DCM.idl.

**8.72.5.428 unsigned long DCM::DeviceControl::SMX36\_VSE\_CalculatedRates\_t::DefBitrate**

RO Calculated Default Rate.

Definition at line 24262 of file DCM.idl.

**8.72.5.429 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::Deferred**

Deferred frames.

Definition at line 19894 of file DCM.idl.

**8.72.5.430 unsigned short DCM::DeviceControl::DCG\_InputRTP\_Stream\_t::DejitterBufferSize**

in ms < For uncompressed: Between 7 and 200 (default 25) < For compressed: Between 1 and 200 (default 25) < Prior to version 10.10: Between 10 and 200 (default 25)

Definition at line 30008 of file DCM.idl.

**8.72.5.431 unsigned short DCM::DeviceControl::DCG\_InputRTP\_Stream\_V2\_t::DejitterBufferSize**

in ms < For uncompressed: Between 7 and 200 (default 25) < For compressed: Between 1 and 200 (default 25) < Prior to version 10.10: Between 10 and 200 (default 25)

Definition at line 30031 of file DCM.idl.

**8.72.5.432 unsigned short DCM::DeviceControl::DCG\_InputRTP\_Stream\_V3\_t::DejitterBufferSize**

in ms < For Audio Gateway: Between 10 and 200 (default 25) < For uncompressed: Between 7 and 200 (default 25) < For compressed: Between 1 and 200 (default 25) < Prior to version 10.10: Between 10 and 200 (default 25)

Definition at line 30047 of file DCM.idl.

**8.72.5.433 double DCM::DeviceControl::NTP\_Stats\_t::Delay**

Indicates the roundtrip delay of the peer clock relative to the local clock over the network path between them, in seconds.

Definition at line 699 of file DCM.idl.

**8.72.5.434 unsigned long DCM::DeviceControl::MFPB\_EngineUnitCfg\_t::Delay**

For VideoAudio engines 3000 - 5000 ms (Total delay), in ms. 4000 by default. (For 10.0 and 10.10 with delays < 3000 are set to 3000) < For AudioOnly engine 500 - 1500 ms (Total delay), in ms. 1500 by default.

Definition at line 10382 of file DCM.idl.

**8.72.5.435 unsigned long DCM::DeviceControl::MFPB\_ServiceCfg\_t::Delay**

For 500 - 5000 ms (Total delay), in ms. 4000 by default. The value is only used if engine nr == 0xFFFE, else the engine end to end delay is used.

Definition at line 10425 of file DCM.idl.

**8.72.5.436 unsigned long DCM::DeviceControl::TC\_ServiceCfg\_t::Delay**

1000 - 2800 ms (Total delay), in ms. See [TC\\_VideoSettings\\_t::CPB\\_Delay](#) for additional restrictions.

Definition at line 13174 of file DCM.idl.

**8.72.5.437 unsigned long DCM::DeviceControl::IPS\_OutPID\_Sync\_t::Delay**

The time (in ms) the PIDs should be delayed.

Definition at line 16679 of file DCM.idl.

**8.72.5.438 long DCM::DeviceControl::IPS\_OutPID\_Sync\_V2\_t::Delay**

The time (in ms) the PIDs should be delayed.

Definition at line 16695 of file DCM.idl.

**8.72.5.439 unsigned short DCM::DeviceControl::HitlessMergeSetting\_t::Delay**

in ms fixed point 1 digit (x10), read only

Definition at line 19677 of file DCM.idl.

**8.72.5.440 SMX36\_VSEDelay\_e DCM::DeviceControl::SMX36\_VSEParams\_t::Delay**

VSE Delay.

Definition at line 24006 of file DCM.idl.

**8.72.5.441 SMX36\_VSEDelay\_V2\_e DCM::DeviceControl::SMX36\_VSEParams\_V2\_t::Delay**

VSE Delay.

Definition at line 24017 of file DCM.idl.

**8.72.5.442 unsigned short DCM::DeviceControl::ASI\_SFN\_MKII\_RDCS\_Settings\_t::Delay**

Range 10--100 ms, in steps of 1.

Definition at line 29536 of file DCM.idl.

**8.72.5.443 unsigned long DCM::DeviceControl::End2End\_Delay\_t::Delay**

Definition at line 30216 of file DCM.idl.

**8.72.5.444 unsigned long DCM::DeviceControl::DCG\_HitlessSwitchOverEnable\_t::delay**

Definition at line 31504 of file DCM.idl.

**8.72.5.445 boolean DCM::DeviceControl::TR\_TsDelay\_t::DelayTs**

true = delay the TS / false = don't delay TS

Definition at line 16913 of file DCM.idl.

**8.72.5.446 DescrId\_t DCM::DeviceControl::DescrResource\_t::DescrId**

"port number" of the descrambler.

Definition at line 28029 of file DCM.idl.

**8.72.5.447 string DCM::DeviceControl::SlateData\_t::Description**

Definition at line 10081 of file DCM.idl.

**8.72.5.448 string DCM::DeviceControl::IpServiceDisplayData::Description**

Usage description and features that are related.

Definition at line 24647 of file DCM.idl.



**8.72.5.449   ByteStream DCM::DeviceControl::DescriptorData\_t::DescriptorData**

Definition at line 7832 of file DCM.idl.

**8.72.5.450   ByteStream DCM::DeviceControl::MergedESDescriptorData\_t::DescriptorData**

Definition at line 8032 of file DCM.idl.

**8.72.5.451   eDescriptorType DCM::DeviceControl::DescriptorData\_t::DescriptorType**

Definition at line 7828 of file DCM.idl.

**8.72.5.452   IPS\_UDP\_Socket.t DCM::DeviceControl::SMX\_Encoder\_t::Destination**

Definition at line 23460 of file DCM.idl.

**8.72.5.453   IPS\_UDP\_Socket.t DCM::DeviceControl::Debug\_Gbe\_OutputTS\_t::DestSocket**

Unique destination IP-Address and UDP port combination.

Definition at line 2451 of file DCM.idl.

**8.72.5.454   IPS\_UDP\_Socket.t DCM::DeviceControl::GbeIO\_IP\_Settings\_t::DestSocket**

Unique destination IPv4 or IPv6-Address and UDP port combination.

Definition at line 3309 of file DCM.idl.

**8.72.5.455   unsigned long DCM::DeviceControl::PspipUpdateLocation\_t::Detail**

Definition at line 8467 of file DCM.idl.

**8.72.5.456   string DCM::DeviceControl::MM\_Measurement::Detail**

Definition at line 22581 of file DCM.idl.

**8.72.5.457   boolean DCM::DeviceControl::MM\_MessageMainPart::DetailPresent**

Definition at line 22319 of file DCM.idl.

**8.72.5.458   boolean DCM::DeviceControl::MM\_Measurement::DetailPresent**

Definition at line 22580 of file DCM.idl.

**8.72.5.459   eDvbS2\_RxMode.t DCM::DeviceControl::InPort\_DvbS2\_Status\_t::DetectedMode**

single stream or multi-stream detected.

Definition at line 7564 of file DCM.idl.

**8.72.5.460   string DCM::DeviceControl::SMX36\_StatmuxController\_t::DeviceIPAddress**

RO management IPAddress of the device where the controller is placed.

Definition at line 23725 of file DCM.idl.

**8.72.5.461   eDeviceRole DCM::DeviceControl::DeviceBackupParams\_t::DeviceRole**

Role of this device. Other settings are only valid if the role is not standalone.

Definition at line 21137 of file DCM.idl.

**8.72.5.462 eDeviceRole\_V2 DCM::DeviceControl::DeviceBackupParamsV2\_t::DeviceRole**

Role of this device.

Definition at line 21168 of file DCM.idl.

**8.72.5.463 boolean DCM::DeviceControl::TC\_CaptionInfo\_t::DigitalCC**

0 means line21 caption service

Definition at line 10174 of file DCM.idl.

**8.72.5.464 eGPI\_IO\_t DCM::DeviceControl::GPI\_Settings\_t::Direction**

gpi pin direction

Definition at line 31578 of file DCM.idl.

**8.72.5.465 MFPB\_Dolby\_AudioSettingsList\_t DCM::DeviceControl::MFPB\_DolbyAudioCfg\_t::Dolby-  
\_AudioSettingsList**

Dolby Audio settings per ES.

Definition at line 12149 of file DCM.idl.

**8.72.5.466 MFPB\_Dolby\_AudioSettingsList\_V2\_t DCM::DeviceControl::MFPB\_DolbyAudioCfg\_V2\_t-  
::Dolby\_AudioSettingsList**

Dolby Audio settings per ES.

Definition at line 12320 of file DCM.idl.

**8.72.5.467 unsigned long DCM::DeviceControl::NicTeam\_Settings::DownDelay**

Definition at line 2194 of file DCM.idl.

**8.72.5.468 unsigned long DCM::DeviceControl::DPI\_ChannelSettings3\_t::DpiGpiNr**

Gpi pin used for both, to insertion and to main.

Definition at line 17058 of file DCM.idl.

**8.72.5.469 unsigned long long DCM::DeviceControl::FEC\_Dec\_Statistics\_t::DuplicatePacketCount**

Definition at line 19159 of file DCM.idl.

**8.72.5.470 unsigned long long DCM::DeviceControl::PCTM\_PacketCounters\_t::DuplicatePackets**

Definition at line 20310 of file DCM.idl.

**8.72.5.471 unsigned long DCM::DeviceControl::DPI\_SpliceRequest\_t::Duration**

Duration == 0 means FOREVER or until aborted.

Definition at line 17107 of file DCM.idl.

**8.72.5.472 boolean DCM::DeviceControl::IPS\_ServiceData\_Out\_t::DVB\_ScramblingLicense**

Read/Write: Holds true if service wants/has DVB\_SCRAMBLING license false if no license.

Definition at line 4891 of file DCM.idl.

**8.72.5.473 boolean DCM::DeviceControl::IPS\_ServiceData\_Out\_V2\_t::DVB\_ScramblingLicense**

Read/Write: Holds true if service wants/has DVB\_SCRAMBLING license; false if no license.

Definition at line 4943 of file DCM.idl.

**8.72.5.474 boolean DCM::DeviceControl::IPS\_ServiceData\_Out\_V3\_t::DVB\_ScramblingLicense**

Read/Write: Holds true if service wants/has DVB\_SCRAMBLING license; false if no license.

Definition at line 4974 of file DCM.idl.

**8.72.5.475 eDvbS2\_Mode\_t DCM::DeviceControl::InPort\_DvbS2\_Status\_t::DVBS\_Mode**

Detected mode: DVB-S or DVB-S2.

Definition at line 7558 of file DCM.idl.

**8.72.5.476 unsigned long DCM::DeviceControl::EasConfig\_t::EasId**

Identifies the EAS proxy.

Definition at line 28985 of file DCM.idl.

**8.72.5.477 boolean DCM::DeviceControl::TC\_CaptionInfo\_t::EasyReader**

1 means tailored for easy reading

Definition at line 10177 of file DCM.idl.

**8.72.5.478 unsigned short DCM::DeviceControl::ETV\_Primary\_Settings\_t::EBIF\_Pid**

Only applicable if primary mode is eUseDummyETV\_Pids.

Definition at line 17155 of file DCM.idl.

**8.72.5.479 unsigned short DCM::DeviceControl::ETV\_Primary\_Settings\_V2\_t::EBIF\_Pid**

Only applicable if primary mode is eUseDummyETV\_Pids.

Definition at line 17268 of file DCM.idl.

**8.72.5.480 enChannelBandwidth DCM::DeviceControl::MIP\_Settings\_t::eChannelBandwidth**

Definition at line 29176 of file DCM.idl.

**8.72.5.481 string DCM::DeviceControl::IPS\_Out\_ECMSettings\_t::ECM\_Info**

Additional info for ECM (AC, ...)

Definition at line 5913 of file DCM.idl.

**8.72.5.482 IPS\_Out\_ECMSettingsTree\_t** DCM::DeviceControl::IPS\_Out\_ServiceComponents\_t::ECM\_Info

Definition at line 5938 of file DCM.idl.

**8.72.5.483 IPS\_Out\_ECMSettingsTree\_t** DCM::DeviceControl::IPS\_Out\_ServiceComponents\_V2\_t::ECM\_Info

Definition at line 5967 of file DCM.idl.

**8.72.5.484 IPS\_In\_ECMSettingsTree\_t** DCM::DeviceControl::IPS\_In\_ServiceComponents\_t::ECM\_Info

Definition at line 6018 of file DCM.idl.

**8.72.5.485 IPS\_Out\_PIDSettings\_t** DCM::DeviceControl::IPS\_Out\_ECMSettings\_t::ECM\_PID

Setting of an individual ECM PID.

Definition at line 5914 of file DCM.idl.

**8.72.5.486 unsigned short** DCM::DeviceControl::IPS\_In\_ECMSettings\_t::ECM\_PID

Setting of an individual ECM PID.

Definition at line 5987 of file DCM.idl.

**8.72.5.487 boolean** DCM::DeviceControl::Service\_AutoPassRules::ECM\_RuleDisabled

read-only; true = ECM rule is disabled and PassDeleteECMs cannot be changed by the user; false = PassDeleteECMs can be configured by the user;

Definition at line 2894 of file DCM.idl.

**8.72.5.488 enCodeRate** DCM::DeviceControl::MIP\_Settings\_t::eCodeRate

Definition at line 29173 of file DCM.idl.

**8.72.5.489 unsigned short** DCM::DeviceControl::SMX36\_Encoder\_t::EcoderVSECapacity

RO The Maximum number of VSE the current encoder can handle.

Definition at line 23938 of file DCM.idl.

**8.72.5.490 enConstellation** DCM::DeviceControl::MIP\_Settings\_t::eConstellation

Definition at line 29171 of file DCM.idl.

**8.72.5.491 eDescrType\_t** DCM::DeviceControl::DescrResource\_t::eDescrType

type of descrambler

Definition at line 28031 of file DCM.idl.

**8.72.5.492 enDVB\_H\_MPE\_FEC** DCM::DeviceControl::MIP\_Settings\_t::eDVB\_H\_MPE\_FEC

Definition at line 29179 of file DCM.idl.

**8.72.5.493 enDVB\_H\_Timeslicing** DCM::DeviceControl::MIP\_Settings\_t::eDVB\_H\_Timeslicing

Definition at line 29178 of file DCM.idl.

**8.72.5.494 eDescrEnabledMode** DCM::DeviceControl::DescrSvcConfig\_t::eEnabled

identifies if and how descrambling must be done

Definition at line 28446 of file DCM.idl.

**8.72.5.495 enFFT\_Mode** DCM::DeviceControl::MIP\_Settings\_t::eFFT\_Mode

Definition at line 29175 of file DCM.idl.

**8.72.5.496 enGPS\_ClockImpedance** DCM::DeviceControl::GPS\_Settings\_t::eGPS\_10MHz\_Impedance

Definition at line 29090 of file DCM.idl.

**8.72.5.497 enGPS\_10MHz\_Invert** DCM::DeviceControl::GPS\_Settings\_t::eGPS\_10MHz\_Invert

Definition at line 29094 of file DCM.idl.

**8.72.5.498 enGPS\_1PPS\_Edge** DCM::DeviceControl::GPS\_Settings\_t::eGPS\_1PPS\_Edge

Definition at line 29093 of file DCM.idl.

**8.72.5.499 enGPS\_ClockImpedance** DCM::DeviceControl::GPS\_Settings\_t::eGPS\_1PPS\_Impedance

Definition at line 29089 of file DCM.idl.

**8.72.5.500 enGPS\_1PPS\_SliceLevel** DCM::DeviceControl::GPS\_Settings\_t::eGPS\_1PPS\_SliceLevel

Definition at line 29091 of file DCM.idl.

**8.72.5.501 enGuardInterval** DCM::DeviceControl::MIP\_Settings\_t::eGuardInterval

Definition at line 29174 of file DCM.idl.

**8.72.5.502 enHierarchyAndInterleaving** DCM::DeviceControl::MIP\_Settings\_t::eHierarchyAnd-Interleaving

Definition at line 29172 of file DCM.idl.

**8.72.5.503 unsigned short** DCM::DeviceControl::ETV\_Primary\_Settings\_t::EISS\_Pid

Only applicable if primary mode is eUseDummyETV\_Pids.

Definition at line 17154 of file DCM.idl.

**8.72.5.504 unsigned short** DCM::DeviceControl::ETV\_Primary\_Settings\_V2\_t::EISS\_Pid

Only applicable if primary mode is eUseDummyETV\_Pids.

Definition at line 17267 of file DCM.idl.

**8.72.5.505 eEitPresentFollow** DCM::DeviceControl::IPS\_SDT\_Data\_t::EITpfOut

RW (Transparent, Sch. PF Present, Sch. PF Not Present)

Definition at line 4854 of file DCM.idl.

**8.72.5.506 boolean DCM::DeviceControl::IPS\_SDT\_Data\_t::EITpresFollowIn**

RO provides EIT\_present\_following flag of input (Present = 1)

Definition at line 4853 of file DCM.idl.

**8.72.5.507 boolean DCM::DeviceControl::IPS\_SDT\_Data\_t::EITscheduleIn**

RO provides EIT\_schedule\_flag of input (Present = 1)

Definition at line 4851 of file DCM.idl.

**8.72.5.508 eEitSchedule DCM::DeviceControl::IPS\_SDT\_Data\_t::EITschOut**

RW (Transparent, Schedule Present, Schedule Not Present)

Definition at line 4852 of file DCM.idl.

**8.72.5.509 InEMM\_Ref\_t DCM::DeviceControl::EMM\_Data\_t::EMM\_Ref**

Definition at line 2641 of file DCM.idl.

**8.72.5.510 boolean DCM::DeviceControl::TS\_AutoPassRulesDisableFlags::EMM\_RuleDisabled**

read-only; true = the EMM rule is disabled by system; false = the EMM rule can be configured by the user;

Definition at line 2872 of file DCM.idl.

**8.72.5.511 enMFPB\_Downmix\_ToStereo DCM::DeviceControl::MFPB\_AudioDecodeExtraAAC-Settings\_t::en5\_1ToStereo**

Select channels to keep when converting to stereo. Allowed values are LTRT and [LORO default].

Definition at line 12458 of file DCM.idl.

**8.72.5.512 enMFPB\_Downmix\_ToStereo DCM::DeviceControl::MFPB\_AudioDecodeExtraDolby-Settings\_t::en5\_1ToStereo**

Select channels to keep when converting to stereo. Allowed values are LTRT, [LORO default] and auto.

Definition at line 12547 of file DCM.idl.

**8.72.5.513 boolean DCM::DeviceControl::BoardDejitterCfg\_t::EnableCbrLatency**

If true, CBR dejittered streams will use the CBR latency.

Definition at line 2963 of file DCM.idl.

**8.72.5.514 boolean DCM::DeviceControl::BoardCfg\_t::Enabled**

Whether this port is enabled or disabled.

Definition at line 1663 of file DCM.idl.

**8.72.5.515 boolean DCM::DeviceControl::ASI\_BW\_LimitData\_t::Enabled**

Definition at line 6957 of file DCM.idl.

**8.72.5.516 boolean DCM::DeviceControl::RestoreOption::Enabled**

Should the option be used.

Definition at line 21479 of file DCM.idl.

**8.72.5.517 boolean DCM::DeviceControl::RestoreOption\_V2::Enabled**

Should the option be used.

Definition at line 21691 of file DCM.idl.

**8.72.5.518 boolean DCM::DeviceControl::MessageSetting::Enabled**

enable/disabling of individual messages.

Definition at line 22447 of file DCM.idl.

**8.72.5.519 boolean DCM::DeviceControl::SMX36\_VSE\_V2\_t::Enabled**

Is the VSE to be enabled in the statmux Pool.

Definition at line 24078 of file DCM.idl.

**8.72.5.520 boolean DCM::DeviceControl::SMX36\_VSE\_V3\_t::Enabled**

Is the VSE to be enabled in the statmux Pool.

Definition at line 24123 of file DCM.idl.

**8.72.5.521 boolean DCM::DeviceControl::SMX36\_VSE\_V4\_t::Enabled**

Is the VSE to be enabled in the statmux Pool.

Definition at line 24174 of file DCM.idl.

**8.72.5.522 boolean DCM::DeviceControl::SMX36\_VSE\_CalculatedRates\_t::Enabled**

RO If the VSE is enabled or disabled in the Poollist.

Definition at line 24263 of file DCM.idl.

**8.72.5.523 boolean DCM::DeviceControl::GPI\_Settings\_t::Enabled**

gpi contact enabled if true

Definition at line 31580 of file DCM.idl.

**8.72.5.524 boolean DCM::DeviceControl::RipSettings\_t::Enabled**

Whether RIP is enabled by default for new TS's.

Definition at line 31926 of file DCM.idl.

**8.72.5.525 boolean DCM::DeviceControl::BoardCfg\_V2\_t::EnabledStatus**

Whether the status of this port is enabled or disabled.

Definition at line 1706 of file DCM.idl.

**8.72.5.526 boolean DCM::DeviceControl::ETV\_EissFilter\_t::EnableFilter**

if true, the filter is enabled

Definition at line 17354 of file DCM.idl.

**8.72.5.527 enMFPB\_AAC\_AdvancedEncodingTools DCM::DeviceControl::MFPB\_AAC\_AudioSettings\_t::enAdvancedEncodingTools**

enAdvancedEncodingTools is constrained by:

- MFPB\_AudioEncodeSettings\_t.enMFPB\_AudioFormat\_t (LC\_AAC, HE\_AACv1, HE\_AACv2)
- MFPB\_AAC\_AudioSettings\_t.enMFPB\_AAC\_TransportPacketMode\_t (MPEG2\_ADTS, MPEG4\_ADTS, MPEG4\_LATM, MPEG4\_LATM\_EXPL)

Constraints when setting:

- For HE\_AACv1, enAdvancedEncodingTools must be eMFPB\_AET\_SBR
- For future use: For HE\_AACv2, enAdvancedEncodingTools must eMFPB\_AET\_SBR\_PS
- For LC\_AAC + MPEG2\_ADTS, enAdvancedEncodingTools cannot be eMFPB\_AET\_PNS\_TNS
- For LC\_AAC + MPEG2\_ADTS, enAdvancedEncodingTools cannot be eMFPB\_AET\_SBR
- For LC\_AAC + MPEG2\_ADTS, enAdvancedEncodingTools cannot be eMFPB\_AET\_SBR\_PS

Defaults:

- LC\_AAC [eMFPB\_AET\_None by default]
- HE\_AACv1 [eMFPB\_AET\_SBR by default]
- For future use: HE\_AACv2 [eMFPB\_AET\_SBR\_PS by default] Advanced encoding tools

Definition at line 11974 of file DCM.idl.

**8.72.5.528 enMFPB\_Afd DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::enAfd**

Active format descriptor value. The value set in manual mode or fallback value for auto enAfdMode. (enMFPB\_Afd\_16\_9\_sp\_4\_3 by default)

Definition at line 11201 of file DCM.idl.

**8.72.5.529 enMFPB\_AfdMode DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::enAfdMode**

Active format descriptor mode, only used for HD->SD downconversion. Manual | auto (Default)

Definition at line 11200 of file DCM.idl.

**8.72.5.530 enTC\_AllowedBanner\_t DCM::DeviceControl::TC\_BannerSettings\_t::enAllowedBanner**

Definition at line 14041 of file DCM.idl.

**8.72.5.531 enMFPB\_AspectRatioSig DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::enAspectRatioSig**

Aspect Ratio Signaling value. The value set in manual mode or fallback value for auto enAspectRatioSig-Mode. (4:3 SD default, 16:9 HD default)

Definition at line 11199 of file DCM.idl.



**8.72.5.532 enMFPB\_AspectRatioSigMode DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::enAspectRatioSigMode**

Aspect Ratio Signaling mode. Auto (fixed for HD->HD, SD->SD), manual (fixed for HD->SD)

Definition at line 11198 of file DCM.idl.

**8.72.5.533 enTC\_EncodingMode\_t DCM::DeviceControl::TC\_AudioSettings\_t::enAudioEncodingMode**

Remark: This setting is ignored, the audio output is always CBR.

Definition at line 13134 of file DCM.idl.

**8.72.5.534 enMFPB\_AudioFormat\_t DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::enAudioFormat**

Dolby Digital or Dolby Digital Plus.

Definition at line 12673 of file DCM.idl.

**8.72.5.535 enMFPB\_Dolby\_RoomType DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::enAuxRoomType**

Aux Room Type, [SmallRoom by default].

Definition at line 12129 of file DCM.idl.

**8.72.5.536 enMFPB\_Dolby\_RoomType DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::enAuxRoomType**

Aux Room Type, [SmallRoom by default]. Only used for dual mono.

Definition at line 12289 of file DCM.idl.

**8.72.5.537 enMFPB\_Dolby\_RoomType DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::enAuxRoomType**

Room Type.

Definition at line 12690 of file DCM.idl.

**8.72.5.538 enTC\_BannerPriority\_t DCM::DeviceControl::TC\_BannerSettings\_t::enBannerPriority**

Definition at line 14042 of file DCM.idl.

**8.72.5.539 enBannerStopType\_t DCM::DeviceControl::BannerCfg\_V2\_t::enBannerStopType**

Behaviour when the banner is stopped. From version release 9.0.

Definition at line 13981 of file DCM.idl.

**8.72.5.540 enMFPB\_BitrateMode DCM::DeviceControl::MFPB\_VideoEncodeSettings\_t::enBitrateMode**

Choose between CBR, Capped VBR and Statmux.

Definition at line 11009 of file DCM.idl.

**8.72.5.541 enMFPB\_BitrateMode DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::en-BitrateMode**

Choose between CBR, Capped VBR and Statmux.

Definition at line 11179 of file DCM.idl.

**8.72.5.542 enMFPB\_BitrateMode DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t::en-BitrateMode**

Choose between CBR and Capped VBR.

Definition at line 11347 of file DCM.idl.

**8.72.5.543 enMFPB\_Dolby\_BitStreamMode DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::en-BitStreamMode**

Bit stream mode, [CompleteMain by default].

Definition at line 12106 of file DCM.idl.

**8.72.5.544 enMFPB\_Dolby\_BitStreamMode DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::enBitStreamMode**

Bit stream mode, [CompleteMain by default].

Definition at line 12254 of file DCM.idl.

**8.72.5.545 enMFPB\_Dolby\_BitStreamMode DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::enBit-StreamMode**

Bit Stream Mode.

Definition at line 12681 of file DCM.idl.

**8.72.5.546 enMFPB\_ClosedCaptionFormat\_t DCM::DeviceControl::MFPB\_VideoStatus\_t::enClosed-CaptionFormat**

Definition at line 10636 of file DCM.idl.

**8.72.5.547 enTC\_ClosedCaptionFormat\_t DCM::DeviceControl::TC\_VideoStatus\_t::enClosed-CaptionFormat**

Definition at line 13082 of file DCM.idl.

**8.72.5.548 enTC\_ClosedCaptionMode\_t DCM::DeviceControl::TC\_VideoEncodeSettings\_t::en-ClosedCaptionMode**

Definition at line 13022 of file DCM.idl.

**8.72.5.549 enTC\_ClosedCaptionMode\_t DCM::DeviceControl::TC\_VideoSettings\_t::enClosed-CaptionMode**

Definition at line 13071 of file DCM.idl.

**8.72.5.550 enTC\_ClosedCaptionMode\_t DCM::DeviceControl::TC\_PipSettings\_t::enClosedCaption-Mode**

Closed caption transcoding mode.

Definition at line 13114 of file DCM.idl.

**8.72.5.551** `enMFPB_ClosedCaptions_t DCM::DeviceControl::MFPB_VideoEncodeSettings_t::en-ClosedCaptions`

Disable, auto, transcode, test.

Definition at line 11027 of file DCM.idl.

**8.72.5.552** `enMFPB_ClosedCaptions_t DCM::DeviceControl::MFPB_VideoEncodeSettingsV2_t::en-ClosedCaptions`

Disable, auto, transcode, test.

Definition at line 11197 of file DCM.idl.

**8.72.5.553** `enMFPB_ClosedCaptions_t DCM::DeviceControl::MFPB_MultiResVideoEncodeSettings_t::enClosedCaptions`

Disable, auto.

Definition at line 11362 of file DCM.idl.

**8.72.5.554** `unsigned long DCM::DeviceControl::SMX36_Encoder_t::Encoder_Property`

Read only Bitmap used by GUI to display specific icons.

Definition at line 23940 of file DCM.idl.

**8.72.5.555** `unsigned short DCM::DeviceControl::MFPB_ES_CaptionInfo_t::EncoderId`

Set to 0 (main service only)

Definition at line 12616 of file DCM.idl.

**8.72.5.556** `long DCM::DeviceControl::SMX36_VSE_t::EncoderId`

RO Id of the encoder where the VSE is running.

Definition at line 24048 of file DCM.idl.

**8.72.5.557** `long DCM::DeviceControl::SMX36_VSE_V2_t::EncoderId`

RO Id of the encoder where the VSE is running.

Definition at line 24067 of file DCM.idl.

**8.72.5.558** `long DCM::DeviceControl::SMX36_VSE_V3_t::EncoderId`

RO Id of the encoder where the VSE is running (set upon [SMX36\\_VSE\\_Create\(\)](#))

Definition at line 24114 of file DCM.idl.

**8.72.5.559** `long DCM::DeviceControl::SMX36_VSE_V4_t::EncoderId`

RO Id of the encoder where the VSE is running (set upon [SMX36\\_VSE\\_Create\(\)](#))

Definition at line 24165 of file DCM.idl.

**8.72.5.560 string DCM::DeviceControl::SMX36\_Encoder\_t::EncoderIPAddress**

RO IPAddress of the encoder management port.

Definition at line 23936 of file DCM.idl.

**8.72.5.561 string DCM::DeviceControl::SMX36\_Encoder\_t::EncoderName**

RO Name of the Encoder running. (MAX string length = 20)

Definition at line 23937 of file DCM.idl.

**8.72.5.562 unsigned long DCM::DeviceControl::SMX\_EncRef\_t::EncRef**

Definition at line 23420 of file DCM.idl.

**8.72.5.563 SMX\_EncRef\_t DCM::DeviceControl::SMX\_Encoder\_t::EncRef**

Definition at line 23457 of file DCM.idl.

**8.72.5.564 SMX\_EncRef\_t DCM::DeviceControl::SMX\_ServiceRef\_t::EncRef**

Definition at line 23482 of file DCM.idl.

**8.72.5.565 SMX\_EncRef\_t DCM::DeviceControl::SMX\_Service\_t::EncRef**

Definition at line 23488 of file DCM.idl.

**8.72.5.566 unsigned long DCM::DeviceControl::MessageSetting::EndDebounceTime**

debouncing time when the alarm ends, switches from active to non-active.

Definition at line 22452 of file DCM.idl.

**8.72.5.567 enMFPB\_AspectRatio\_t DCM::DeviceControl::MFPB\_VideoStatus\_t::enDecoderAspect-Ratio**

Aspect Ratio of the incoming video stream.

Definition at line 10639 of file DCM.idl.

**8.72.5.568 enMFPB\_Dolby\_DigitalDeEmphasis DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::enDigitalDeEmphasis**

Digital De-Emphasis, [None by default].

Definition at line 12111 of file DCM.idl.

**8.72.5.569 enMFPB\_Dolby\_DigitalDeEmphasis DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::enDigitalDeEmphasis**

Digital De-Emphasis, [None by default].

Definition at line 12259 of file DCM.idl.

**8.72.5.570 enMFPB\_Downmix\_ToStereo DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::enDownmix\_ToStereo**

Preferred Stereo Downmix Mode [LTRT, LORO, NotIndicated default].

Definition at line 12306 of file DCM.idl.

**8.72.5.571 enMFPB\_Downmix\_ToStereo** DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::en-Downmix\_ToStereo

Preferred Stereo Downmix Mode.

Definition at line 12696 of file DCM.idl.

**8.72.5.572 unsigned long** DCM::DeviceControl::ETV\_ApplicationIdent\_t::EndTime

Reserved for future use. Must be 0xFFFFFFFF.

Definition at line 17346 of file DCM.idl.

**8.72.5.573 unsigned long** DCM::DeviceControl::RMX\_GroupSettings\_t::EndToEndDelay

The actual end-to-end delay that the remote statmux service using realignment muxing will have. This is the maximal network delay that can be compensated for between any of the encoders of the realignment group and the remux device across the network. In milliseconds. Range: from 150ms to 1000ms.

Definition at line 15646 of file DCM.idl.

**8.72.5.574 enMFPB\_Downmix\_ToMono** DCM::DeviceControl::MFPB\_AudioDecodeExtraMPEGL2-Settings\_t::enDualMonoToMono

Select how to convert dual mono channels to mono. [Left by default].

Definition at line 12393 of file DCM.idl.

**8.72.5.575 enMFPB\_Downmix\_ToMono** DCM::DeviceControl::MFPB\_AudioDecodeExtraDolby-Settings\_t::enDualMonoToMono

Select how to convert dual mono channels to mono. [Left by default].

Definition at line 12542 of file DCM.idl.

**8.72.5.576 enMFPB\_Dolby\_DynamicRangeControl** DCM::DeviceControl::MFPB\_Dolby\_Audio-Settings\_t::enDynamicRangeControlLine

Dynamic range control (line), [FilmStandard by default].

Definition at line 12107 of file DCM.idl.

**8.72.5.577 enMFPB\_Dolby\_DynamicRangeControl** DCM::DeviceControl::MFPB\_Dolby\_Audio-Settings\_V2\_t::enDynamicRangeControlLine

Dynamic range control (line), [FilmStandard by default].

Definition at line 12255 of file DCM.idl.

**8.72.5.578 enMFPB\_Dolby\_DynamicRangeControl** DCM::DeviceControl::MFPB\_Dolby\_Audio-Settings\_t::enDynamicRangeControlRf

Dynamic range control (RF), [FilmStandard by default].

Definition at line 12108 of file DCM.idl.

**8.72.5.579** `enMFPB_Dolby_DynamicRangeControl DCM::DeviceControl::MFPB_Dolby_Audio-Settings_V2_t::enDynamicRangeControlRf`

Dynamic range control (RF), [FilmStandard by default].

Definition at line 12256 of file DCM.idl.

**8.72.5.580** `enMFPB_DolbyDec_DynComp DCM::DeviceControl::MFPB_AudioDecodeExtraDolby-Settings_t::enDynCompMode`

Dynamic Compression Mode [Line by default].

Definition at line 12550 of file DCM.idl.

**8.72.5.581** `enTC_EAS_Control_t DCM::DeviceControl::TC_BannerSettings_t::enEAS_Control`

Only affects banners triggered through [StartEAS\(\)](#)

Definition at line 14043 of file DCM.idl.

**8.72.5.582** `enTC_EncodingMode_t DCM::DeviceControl::TC_VideoEncodeSettings_t::enEncoding-Mode`

Definition at line 13021 of file DCM.idl.

**8.72.5.583** `enTC_EncodingMode_t DCM::DeviceControl::TC_VideoSettings_t::enEncodingMode`

Definition at line 13070 of file DCM.idl.

**8.72.5.584** `enMFPB_EntropyEncoding_t DCM::DeviceControl::MFPB_MultiResVideoEncode-Settings_t::enEntropyEncoding`

Definition at line 11353 of file DCM.idl.

**8.72.5.585** `enMFPB_ExtendedBSI_Mode DCM::DeviceControl::MFPB_Dolby_AudioSettings_V2_t::enExtBSI_Mode`

Extended BSI Mode. [standard, XBSI default].

Definition at line 12305 of file DCM.idl.

**8.72.5.586** `enMFPB_ExtendedBSI_Mode DCM::DeviceControl::MFPB_DD_MetaStatus_t::enExtBSI-Mode`

Extended BSI Mode.

Definition at line 12695 of file DCM.idl.

**8.72.5.587** `enMFPB_Dolby_BitStreamMode DCM::DeviceControl::MFPB_Dolby_AudioSettings_t::en-ExtendedBSI_BitStreamMode`

For Future functionality,.

Definition at line 12134 of file DCM.idl.

**8.72.5.588** `enumIGMPv3Filtertype DCM::DeviceControl::IGMPv3Group_t::enFiltertype`

Definition at line 20129 of file DCM.idl.

**8.72.5.589 SMX36\_Video\_Rate\_Mode\_e DCM::DeviceControl::SMX36\_VSE\_V4\_t::enforcedVideoRateMode**

RW To enforce the video rate mode expected from the VSE.

Definition at line 24187 of file DCM.idl.

**8.72.5.590 enMFPB\_AudioFormat\_t DCM::DeviceControl::MFPB\_AudioEncodeSettings\_t::enFormat**

Audio encoding format, see enMFPB\_AudioFormat\_t for supported formats.

Definition at line 11735 of file DCM.idl.

**8.72.5.591 unsigned short DCM::DeviceControl::RefProcessorEngineUnit\_t::EngineNr**

The processing engine.

- Multi format processor (MFP) boards have 3 or 4 engines (depending on the board level audio mode). EngineNr range: 0..3.
- Multi format processor (MFP) 0xFFFE means delay engine
- Multi format processor (MFP) 0xFFF0 means audio only

Definition at line 10330 of file DCM.idl.

**8.72.5.592 enMFPB\_AudioStatusChannelConfiguration\_t DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::enInputChannelConfig**

Channel configuration.

Definition at line 12674 of file DCM.idl.

**8.72.5.593 enMFPB\_Level\_t DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t::enLevel**

Definition at line 11352 of file DCM.idl.

**8.72.5.594 enTC\_LogoCfgSource\_t DCM::DeviceControl::TC\_LogoCfg\_t::enLogoCfgSource**

Definition at line 14098 of file DCM.idl.

**8.72.5.595 enTC\_LogoCfgSource\_t DCM::DeviceControl::TC\_LogoKeyerID\_t::enLogoCfgSource**

read-only

Definition at line 14108 of file DCM.idl.

**8.72.5.596 enMFPB\_Dolby\_RoomType DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::enMainRoomType**

Room Type.

Definition at line 12686 of file DCM.idl.

**8.72.5.597 enMFPB\_MaxBitrateDescrMode\_t DCM::DeviceControl::MFPB\_ServiceCfg\_t::enMaxBitrateDescriptorMode**

Definition at line 10429 of file DCM.idl.

**8.72.5.598 enTC\_MaximumBitrateDescriptorMode\_t** DCM::DeviceControl::TC\_ServiceCfg\_t::enMaximumBitrateDescriptorMode

Definition at line 13173 of file DCM.idl.

**8.72.5.599 enMFPB\_MetaDataPass\_t** DCM::DeviceControl::MFPB\_MetaDataCfg\_t::enMetaDataPass

Setting to determine how audio meta data is passed between decoder and encoder. Auto by default (Default manual for services set before 10.20)

Definition at line 12767 of file DCM.idl.

**8.72.5.600 enMFPB\_AudioProcessingMode\_t** DCM::DeviceControl::MFPB\_BoardCfg\_t::enMFPB\_AudioProcessingMode

How audio will be handled.

Definition at line 10255 of file DCM.idl.

**8.72.5.601 enMFPB\_EngineUnitMode\_t** DCM::DeviceControl::MFPB\_EngineUnitCfg\_t::enMFPB\_EngineUnitMode

processing unit mode

Definition at line 10381 of file DCM.idl.

**8.72.5.602 enMFPB\_EngineUnitType\_t** DCM::DeviceControl::MFPB\_EngineUnitCfg\_t::enMFPB\_EngineUnitType

read only engine unit type

Definition at line 10380 of file DCM.idl.

**8.72.5.603 enMFPB\_FrameRate\_t** DCM::DeviceControl::MFPB\_VideoEncoderTemplate\_t::enMFPB\_FrameRate

Frame rate.

Definition at line 10943 of file DCM.idl.

**8.72.5.604 enMFPB\_MR\_FrameRate\_t** DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t::enMFPB\_FrameRate

Definition at line 11350 of file DCM.idl.

**8.72.5.605 enMFPB\_FrameRateReduction\_t** DCM::DeviceControl::MFPB\_VideoEncoderTemplate\_t::enMFPB\_FrameRateReduction

Frame rate reduction, Reserved for future use.

Definition at line 10944 of file DCM.idl.

**8.72.5.606 enMFPB\_GopStructure\_t** DCM::DeviceControl::MFPB\_VideoEncodeSettings\_t::enMFPB\_GopStructure

The mode of the GOP structure(ignored for transrating, KeepClosed is used)

Definition at line 11013 of file DCM.idl.



**8.72.5.607 enMFPB\_GopStructure\_t DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::enMFPB\_GopStructure**

The mode of the GOP structure(ignored for transrating, KeepClosed is used)

Definition at line 11183 of file DCM.idl.

**8.72.5.608 enMFPB\_GopStructure\_t DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t::enMFPB\_GopStructure**

The mode of the GOP structure (Follow input and keep closed GOP not allowed)

Definition at line 11356 of file DCM.idl.

**8.72.5.609 enMFPB\_HorizResolution\_t DCM::DeviceControl::MFPB\_VideoEncoderTemplate\_t::enMFPB\_HorizResolution**

Horizontal Resolution.

Definition at line 10941 of file DCM.idl.

**8.72.5.610 enMFPB\_Profile\_t DCM::DeviceControl::MFPB\_VideoEncoderTemplate\_t::enMFPB\_Profile**

Profile: see enMFPB\_Profile\_t for Mpeg2/Avc, transrate/transcode, SD/HD defaults and constraints.

Definition at line 10945 of file DCM.idl.

**8.72.5.611 enMFPB\_Profile\_t DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t::enMFPB\_Profile**

Definition at line 11351 of file DCM.idl.

**8.72.5.612 enMFPB\_SlotType\_t DCM::DeviceControl::MFPB\_ServiceCfg\_t::enMFPB\_SlotType**

The slot type a service belongs to.

Definition at line 10424 of file DCM.idl.

**8.72.5.613 enMFPB\_VertResolution\_t DCM::DeviceControl::MFPB\_VideoEncoderTemplate\_t::enMFPB\_VertResolution**

Vertical Resolution.

Definition at line 10939 of file DCM.idl.

**8.72.5.614 enTC\_AudioMode\_t DCM::DeviceControl::TC\_AudioStatus\_t::enMode**

Definition at line 13145 of file DCM.idl.

**8.72.5.615 enMFPB\_PAFF DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::enPAFF**

Reserved for future use, Picture Adaptive Frame Field Encoding MBAFF (default) | PAFF.

Definition at line 11202 of file DCM.idl.

**8.72.5.616 enTC\_PerceptualNoiseSubstitution\_t DCM::DeviceControl::TC\_AudioSettings\_t::enPerceptualNoiseSubstitution**

Cannot be activated if Spectral Band Replication is enabled.

Definition at line 13137 of file DCM.idl.

**8.72.5.617 enLogoPlayoutMode\_t DCM::DeviceControl::LogoCfg\_t::enPlayoutMode**

Playout mode for animated logos.

Definition at line 13822 of file DCM.idl.

**8.72.5.618 enTC\_Profile\_t DCM::DeviceControl::TC\_VideoEncodeSettings\_t::enProfile**

Applies if the input is SD. The HD output is always high profile.

Definition at line 13013 of file DCM.idl.

**8.72.5.619 enTC\_Profile\_t DCM::DeviceControl::TC\_VideoSettings\_t::enProfile**

Applies if the input is SD. The HD output is always high profile.

Definition at line 13063 of file DCM.idl.

**8.72.5.620 enTC\_PipResolution\_t DCM::DeviceControl::TC\_PipSettings\_t::enResolution**

Output resolution.

Definition at line 13110 of file DCM.idl.

**8.72.5.621 enMFPB\_Dolby\_RoomType DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::enRoomType**

Room Type, [SmallRoom by default].

Definition at line 12123 of file DCM.idl.

**8.72.5.622 enMFPB\_Dolby\_RoomType DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::enRoomType**

Room Type, [SmallRoom by default].

Definition at line 12272 of file DCM.idl.

**8.72.5.623 enMFPB\_AudioSampleRate\_t DCM::DeviceControl::MFPB\_AudioEncodeSettings\_t::enSampleRate**

Must be follow input.

Definition at line 11772 of file DCM.idl.

**8.72.5.624 enMFPB\_AudioStatusSampleRate\_t DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::enSampleRate**

Definition at line 12675 of file DCM.idl.

**8.72.5.625 enTC\_AudioSampleRate\_t DCM::DeviceControl::TC\_AudioStatus\_t::enSampleRate**

Definition at line 13144 of file DCM.idl.

**8.72.5.626 enTC\_SpectralBandReplication\_t DCM::DeviceControl::TC\_AudioSettings\_t::enSpectralBandReplication**

Cannot be activated if Perceptual Noise Substitution is enabled.

Definition at line 13136 of file DCM.idl.

**8.72.5.627 enMFPB\_AudioChannelConfiguration\_t** DCM::DeviceControl::MFPB\_AudioEncode-Settings\_t::enStreamConfiguration

Number of output channels. If source contains less channels, basic up mix will be performed.

Definition at line 11773 of file DCM.idl.

**8.72.5.628 enMFPB\_Dolby\_SurroundMode** DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::en-SurroundExMode

For Future functionality.

Definition at line 12140 of file DCM.idl.

**8.72.5.629 enMFPB\_Dolby\_SurroundExMode** DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2-\_t::enSurroundExMode

Dolby Surround Ex mode. Disabled default.

Definition at line 12311 of file DCM.idl.

**8.72.5.630 enMFPB\_Dolby\_SurroundExMode** DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::en-SurroundExMode

Dolby Surround Ex mode.

Definition at line 12692 of file DCM.idl.

**8.72.5.631 enMFPB\_Dolby\_SurroundMode** DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::en-SurroundMode

Surround Mode, [NotIndicated by default].

Definition at line 12114 of file DCM.idl.

**8.72.5.632 enMFPB\_Dolby\_SurroundMode** DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::enSurroundMode

Surround Mode, [NotIndicated by default].

Definition at line 12263 of file DCM.idl.

**8.72.5.633 enMFPB\_Dolby\_SurroundMode** DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::en-SurroundMode

Dolby Surround Mode.

Definition at line 12691 of file DCM.idl.

**8.72.5.634 enTC\_TemporalNoiseShaping\_t** DCM::DeviceControl::TC\_AudioSettings\_t::enTemporal-NoiseShaping

Definition at line 13135 of file DCM.idl.

**8.72.5.635 enuTrackTypeV2** DCM::DeviceControl::TrackingCriterium\_t::enTrackType

Definition at line 5049 of file DCM.idl.

**8.72.5.636** `enMFPB_AAC_TransportPacketMode_t DCM::DeviceControl::MFPB_AAC_AudioSettings_t::enTransportPacketizationMode`

Bit stream mode, [MPEG-4 LATM/LOAS by default].

Definition at line 11956 of file DCM.idl.

**8.72.5.637** `enTC_TransportPacketizationMode_t DCM::DeviceControl::TC_AudioSettings_t::enTransportPacketizationMode`

Definition at line 13138 of file DCM.idl.

**8.72.5.638** `enTC_VBR_Quality_t DCM::DeviceControl::TC_VideoEncodeSettings_t::enVBR_Quality`

Definition at line 13020 of file DCM.idl.

**8.72.5.639** `enTC_VBR_Quality_t DCM::DeviceControl::TC_VideoSettings_t::enVBR_Quality`

Definition at line 13069 of file DCM.idl.

**8.72.5.640** `enMFPB_VideoCodec_t DCM::DeviceControl::MFPB_VideoStatus_t::enVideoDecoderCodec`

Video codec of the incoming video stream.

Definition at line 10640 of file DCM.idl.

**8.72.5.641** `enMFPB_VideoEncoderCodec_t DCM::DeviceControl::MFPB_VideoEncodeSettings_t::enVideoEncoderCodec`

Indicate whether Mpeg2/AVC is used.

Definition at line 11007 of file DCM.idl.

**8.72.5.642** `enMFPB_VideoEncoderCodec_t DCM::DeviceControl::MFPB_VideoEncodeSettingsV2_t::enVideoEncoderCodec`

Indicate whether Mpeg2/AVC is used.

Definition at line 11177 of file DCM.idl.

**8.72.5.643** `enMFPB_VideoEncodingMode_t DCM::DeviceControl::MFPB_VideoEncodeSettings_t::enVideoEncodingMode`

Processing mode TR/TC.

Definition at line 11006 of file DCM.idl.

**8.72.5.644** `enMFPB_VideoEncodingMode_t DCM::DeviceControl::MFPB_VideoEncodeSettingsV2_t::enVideoEncodingMode`

Processing mode TR/TC.

Definition at line 11176 of file DCM.idl.

**8.72.5.645** `enMFPB_VideoMode_t DCM::DeviceControl::MFPB_VideoEncodeSettings_t::enVideoMode`

Indicate whether this is SD/HD.

Definition at line 11008 of file DCM.idl.

**8.72.5.646** `enMFPB_VideoMode_t DCM::DeviceControl::MFPB_VideoEncodeSettingsV2_t::enVideoMode`

Indicate whether this is SD/HD.

Definition at line 11178 of file DCM.idl.

**8.72.5.647** `eNegotiatedGbePortSpeed_t DCM::DeviceControl::NegotiatedGbePortSpeed_t::ePortSpeed`

Definition at line 30862 of file DCM.idl.

**8.72.5.648** `unsigned long long DCM::DeviceControl::InPort_DvbS2_Counters_t::ErroredSeconds`

Definition at line 7593 of file DCM.idl.

**8.72.5.649** `MFPB_ES_CaptionInfoList_t DCM::DeviceControl::MFPB_Svc_CaptionInfo_t::ES_CaptionInfoList`

Definition at line 12627 of file DCM.idl.

**8.72.5.650** `TC_ES_CaptionInfoList_t DCM::DeviceControl::TC_Svc_CaptionInfo_t::ES_CaptionInfoList`

Definition at line 13261 of file DCM.idl.

**8.72.5.651** `boolean DCM::DeviceControl::Service_AutoPassRules::ES_ECM_RuleDisabled`

read-only; true = ES\_ECM rule is disabled and PassDeleteES\_ECMs cannot be changed by the user; false = PassDeleteES\_ECMs can be configured by the user;

Definition at line 2896 of file DCM.idl.

**8.72.5.652** `IPS_Out_ECMSettingsTree_t DCM::DeviceControl::IPS_Out_ESSettings_t::ES_ECMSettings`

Settings for each ES ECM PID.

Definition at line 5925 of file DCM.idl.

**8.72.5.653** `IPS_Out_ECMSettingsTree_t DCM::DeviceControl::IPS_Out_ESSettings_V2_t::ES_ECMSettings`

Settings for each ES ECM PID.

Definition at line 5954 of file DCM.idl.

**8.72.5.654** `IPS_In_ECMSettingsTree_t DCM::DeviceControl::IPS_In_ESSettings_t::ES_ECMSettings`

Settings for each ES ECM PID.

Definition at line 5998 of file DCM.idl.

**8.72.5.655** `IPS_Out_ESSettingsTree_t DCM::DeviceControl::IPS_Out_ServiceComponents_t::ES_Info`

Contains a list of ECM\_Info.

Definition at line 5939 of file DCM.idl.

**8.72.5.656** `IPS_Out_ESSettingsTree_V2.t DCM::DeviceControl::IPS_Out_ServiceComponents_V2_t::ES_Info`

Contains a list of ECM\_Info.

Definition at line 5968 of file DCM.idl.

**8.72.5.657** `IPS_In_ESSettingsTree.t DCM::DeviceControl::IPS_In_ServiceComponents_t::ES_Info`

Contains a list of ECM\_Info.

Definition at line 6019 of file DCM.idl.

**8.72.5.658** `LanguageList.t DCM::DeviceControl::IPS_Out_ESSettings_t::ES_Languages`

Language descriptors: will be 0 in first version.

Definition at line 5926 of file DCM.idl.

**8.72.5.659** `LanguageList.t DCM::DeviceControl::IPS_Out_ESSettings_V2_t::ES_Languages`

Definition at line 5955 of file DCM.idl.

**8.72.5.660** `LanguageList.t DCM::DeviceControl::IPS_In_ESSettings_t::ES_Languages`

Language descriptors: will be zero in first version.

Definition at line 5999 of file DCM.idl.

**8.72.5.661** `IPS_Out_PIDSettings.t DCM::DeviceControl::IPS_Out_ESSettings_t::ES_PID`

Definition at line 5922 of file DCM.idl.

**8.72.5.662** `IPS_Out_PIDSettings.t DCM::DeviceControl::IPS_Out_ESSettings_V2_t::ES_PID`

Definition at line 5948 of file DCM.idl.

**8.72.5.663** `unsigned short DCM::DeviceControl::IPS_In_ESSettings_t::ES_PID`

Definition at line 5995 of file DCM.idl.

**8.72.5.664** `boolean DCM::DeviceControl::Service_AutoPassRules::ES_RuleDisabled`

read-only; true = ES rule is disabled and PassDeleteESs cannot be changed by the user; false = PassDeleteESs can be configured by the user;

Definition at line 2892 of file DCM.idl.

**8.72.5.665** `octet DCM::DeviceControl::ES_TypeSetting_t::ES_Type`

Definition at line 5850 of file DCM.idl.

**8.72.5.666** `octet DCM::DeviceControl::IPS_Out_ESSettings_t::ES_Type`

dvb streamtype.

Definition at line 5923 of file DCM.idl.

**8.72.5.667   octet DCM::DeviceControl::ServiceCompBitRateMeasurement\_t::ES\_Type**

dvb streamtype.

Definition at line 9822 of file DCM.idl.

**8.72.5.668   ES\_TypeSettingList\_t DCM::DeviceControl::SvcOutES\_TypeSetting\_t::ES\_TypeSetting-  
List**

Definition at line 5858 of file DCM.idl.

**8.72.5.669   eAES\_SampleRate\_t DCM::DeviceControl::DCG\_AES\_GeneratorConfig\_t::eSampleRate**

Definition at line 30807 of file DCM.idl.

**8.72.5.670   EsList\_t DCM::DeviceControl::SelectionListEntry\_t::EsList**

Definition at line 12882 of file DCM.idl.

**8.72.5.671   enumEasSocketType\_t DCM::DeviceControl::EasConfig\_t::eSocketType**

the type of socket. In case of multicast, also the IP\_Addr field must be filled in.

Definition at line 29000 of file DCM.idl.

**8.72.5.672   eTableStandard\_t DCM::DeviceControl::OutTsStandard\_t::eStandard**

Definition at line 8884 of file DCM.idl.

**8.72.5.673   octet DCM::DeviceControl::IPS\_In\_ESSettings\_t::ESType**

Dvb stream type.

Definition at line 5996 of file DCM.idl.

**8.72.5.674   octet DCM::DeviceControl::EsEntry\_t::EsType**

Definition at line 12871 of file DCM.idl.

**8.72.5.675   eEsTypeStandard DCM::DeviceControl::CompPidES\_V2\_t::EsTypeStandard**

The standard of the input TS : DVB, ATSC or Motorola < (necessary to correctly interpret the ES type during matching) < Will only be used for dummy ES, else the real input TS standard < be used.

Definition at line 2843 of file DCM.idl.

**8.72.5.676   eVctEtmLocation DCM::DeviceControl::VCT\_Data\_t::ETM\_Location**

see VCT\_ETMLOCATION\_xxxx

Definition at line 9058 of file DCM.idl.

**8.72.5.677   enTR\_VideoFormat DCM::DeviceControl::TR\_ResourceCountingSettings\_t::eTR\_Video-  
Format**

Definition at line 14728 of file DCM.idl.

**8.72.5.678** `enASI_SFN_MKII_TS_Output_Mode` `DCM::DeviceControl::ASI_SFN_MKII_TS_Output_Mode_t::eTS_Output_Mode`

Type of TS.

Definition at line 29546 of file DCM.idl.

**8.72.5.679** `enTS_Priority` `DCM::DeviceControl::MIP_Settings_t::eTS_Priority`

Definition at line 29177 of file DCM.idl.

**8.72.5.680** `eETV_InsertionChannel_Mode_t` `DCM::DeviceControl::ETV_Insertion_Settings_t::ETV_Insertion_Mode`

Definition at line 17168 of file DCM.idl.

**8.72.5.681** `eETV_InsertionChannel_Mode_V2_t` `DCM::DeviceControl::ETV_Insertion_Settings_V2_t::ETV_Insertion_Mode`

Definition at line 17287 of file DCM.idl.

**8.72.5.682** `ETV_Insertion_Settings_t` `DCM::DeviceControl::ETV_ManipulationSettings_t::ETV_Insertion_Settings`

Definition at line 17176 of file DCM.idl.

**8.72.5.683** `ETV_Insertion_Settings_V2_t` `DCM::DeviceControl::ETV_ManipulationSettings_V2_t::ETV_Insertion_Settings`

Definition at line 17296 of file DCM.idl.

**8.72.5.684** `IPS_RefSvc_t` `DCM::DeviceControl::ETV_Primary_Settings_t::ETV_OtherSvc`

Only applicable if primary mode is `eUseOtherServiceETV_Pids`.

Definition at line 17153 of file DCM.idl.

**8.72.5.685** `IPS_RefSvc_t` `DCM::DeviceControl::ETV_Insertion_Settings_t::ETV_OtherSvc`

Only applicable if primary mode is `eUseOtherServiceETV_Pids`.

Definition at line 17169 of file DCM.idl.

**8.72.5.686** `IPS_RefSvc_t` `DCM::DeviceControl::ETV_Primary_Settings_V2_t::ETV_OtherSvc`

Only applicable if primary mode is `eMainSvc_V2_UseOtherServiceETV_Pids` or `eMainSvc_V2_MergeEISS_Pids`.

Definition at line 17265 of file DCM.idl.

**8.72.5.687** `IPS_RefSvc_t` `DCM::DeviceControl::ETV_Insertion_Settings_V2_t::ETV_OtherSvc`

Only applicable if primary mode is `eAdSvc_V2_UseOtherServiceETV_Pids` or `eAdSvc_V2_MergeEISS_Pids`.

Definition at line 17288 of file DCM.idl.



**8.72.5.688 eETV\_PrimaryChannel\_Mode\_t** DCM::DeviceControl::ETV\_Primary\_Settings\_t::ETV\_Primary\_Mode

Definition at line 17152 of file DCM.idl.

**8.72.5.689 eETV\_PrimaryChannel\_Mode\_V2\_t** DCM::DeviceControl::ETV\_Primary\_Settings\_V2\_t::ETV\_Primary\_Mode

Definition at line 17264 of file DCM.idl.

**8.72.5.690 ETV\_Primary\_Settings\_t** DCM::DeviceControl::ETV\_ManipulationSettings\_t::ETV\_Primary\_Settings

Definition at line 17175 of file DCM.idl.

**8.72.5.691 ETV\_Primary\_Settings\_V2\_t** DCM::DeviceControl::ETV\_ManipulationSettings\_V2\_t::ETV\_Primary\_Settings

Definition at line 17295 of file DCM.idl.

**8.72.5.692 eTRB\_CC\_UpdateMode** DCM::DeviceControl::TR\_ServiceSettings\_V2\_t::eUpdateMode

Closed caption update mode.

Definition at line 15464 of file DCM.idl.

**8.72.5.693 string** DCM::DeviceControl::ASI\_DTF\_ScramblingKey\_t::EvenKey

Hex encoded scrambling key for use with even scrambling, a valid key is exactly 12 characters long.

Definition at line 22081 of file DCM.idl.

**8.72.5.694 ByteStream** DCM::DeviceControl::ASI\_DTF\_ScramblingKeyPair\_t::EvenScrambling-Key

Scrambling key for use with even scrambling, should be exactly 6 bytes long.

Definition at line 22068 of file DCM.idl.

**8.72.5.695 ByteStream** DCM::DeviceControl::DescrTrackingRule\_t::EvenSessionWord

session word for BISS descrambling with even parity.

Definition at line 28420 of file DCM.idl.

**8.72.5.696 ByteStream** DCM::DeviceControl::DescrSvcConfig\_t::EvenSessionWord

session word for BISS with even parity.

Definition at line 28449 of file DCM.idl.

**8.72.5.697 ByteStream** DCM::DeviceControl::DescrBISS\_Cfg\_t::EvenSessionWord

session word for BISS descrambling with even parity.

Definition at line 28772 of file DCM.idl.

**8.72.5.698 eAES\_WaveMode\_t** DCM::DeviceControl::DCG\_AES\_GeneratorConfig\_t::eWaveMode

Definition at line 30808 of file DCM.idl.

**8.72.5.699 eAES\_WaveModeDetail\_t DCM::DeviceControl::DCG\_AES\_GeneratorConfig\_t::eWaveModeDetail**

Definition at line 30809 of file DCM.idl.

**8.72.5.700 TableKeys\_List\_t DCM::DeviceControl::SI\_AutoPassRules\_t::ExceptionList**

List of tables which will not be auto-passed.

Definition at line 2907 of file DCM.idl.

**8.72.5.701 boolean DCM::DeviceControl::ModuleExceptionTrace\_t::ExceptionTraceEnabled**

Definition at line 1492 of file DCM.idl.

**8.72.5.702 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::ExcessDeferral**

Excess deferral end of -- not to be used --.

Definition at line 19898 of file DCM.idl.

**8.72.5.703 unsigned long DCM::DeviceControl::InTsExistenceReasons\_t::ExistenceBitmap**

Definition at line 3137 of file DCM.idl.

**8.72.5.704 eVideoFormat\_t DCM::DeviceControl::DCG\_InputTS\_t::ExpectedVideoFormat**

Definition at line 29993 of file DCM.idl.

**8.72.5.705 string DCM::DeviceControl::SMX36\_VSE\_V2\_t::expectedVideoRateMode**

RO Set when the VSE is placed in a Pool a alarm is raised if actual divigates from expected.

Definition at line 24079 of file DCM.idl.

**8.72.5.706 string DCM::DeviceControl::SMX36\_VSE\_V3\_t::expectedVideoRateMode**

RO Set when the VSE is placed in a Pool a alarm is raised if actual divigates from expected.

Definition at line 24124 of file DCM.idl.

**8.72.5.707 SMX36\_Video\_Rate\_Mode\_e DCM::DeviceControl::SMX36\_VSE\_V4\_t::expectedVideoRateMode**

new in V11.00 URC:

- It is now possible to enforce the expected video rate mode from the VSE, by setting the enforced video rate mode to something else than ignore.
- Before, the expected video rate mode was default set to "Statmux" when preconfiguring VSE. For on-line VSEs the video rate mode of the VSE at the moment of joining the pool was set as the expected video rate mode.
- If the enforced video rate mode is set to ignore, the previous behavior is kept.
- When the expected video rate mode is different compared with actual video rate mode as detected on the on-line VSE, then an Alarm is triggered. RO Set when the VSE is placed in a Pool. If enforceVideoRateMode is not Ignore, then this will be the saem as the enforceVideoRateMode.

Definition at line 24186 of file DCM.idl.

**8.72.5.708 Time DCM::DeviceControl::TempLicenseData::ExpirationDate**

time of expiration of the temporary licenses in the local timezone

Definition at line 20663 of file DCM.idl.

**8.72.5.709 eFeatureExpireState DCM::DeviceControl::Feature\_t::Expired**

Definition at line 20536 of file DCM.idl.

**8.72.5.710 unsigned short DCM::DeviceControl::LogoCfg\_t::FadeIn**

in frames, max 300 frames, 0 is instant display

Definition at line 13819 of file DCM.idl.

**8.72.5.711 unsigned short DCM::DeviceControl::LogoCfg\_t::FadeOut**

in frames, max 300 frames, 0 is instant removal

Definition at line 13820 of file DCM.idl.

**8.72.5.712 unsigned long DCM::DeviceControl::NicTeam\_MemberStatus\_t::FailureCount**

Definition at line 2206 of file DCM.idl.

**8.72.5.713 boolean DCM::DeviceControl::TimeBaseSelectionMode\_V2\_t::FastLockMode**

Definition at line 2990 of file DCM.idl.

**8.72.5.714 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::FCS\_Bad**

FCS/CRC error.

Definition at line 19869 of file DCM.idl.

**8.72.5.715 string DCM::DeviceControl::FeatureUsage\_t::FeatureName**

unique name identifying the feature.

Definition at line 20697 of file DCM.idl.

**8.72.5.716 FeatureUsageList\_t DCM::DeviceControl::BoardFeatureUsage\_t::FeatureUsageList**

a list of all the used features.

Definition at line 20710 of file DCM.idl.

**8.72.5.717 eDvbS2\_FEC\_CodeRate\_t DCM::DeviceControl::InPort\_DvbS2\_Status\_t::FEC\_CodeRate**

FEC code rate.

Definition at line 7560 of file DCM.idl.

**8.72.5.718 FEC\_Dec\_Setting\_t DCM::DeviceControl::InTS\_FEC\_Dec\_Setting\_t::FecDecSet**

Definition at line 19131 of file DCM.idl.

**8.72.5.719 FEC\_Dec\_Statistics\_t DCM::DeviceControl::InTS\_FEC\_Dec\_Statistics\_t::FecDecStat**

Definition at line 19168 of file DCM.idl.

**8.72.5.720** `FEC_Dec_Status_t` `DCM::DeviceControl::InTS_FEC_Dec_Status_t::FecDecStat`

Definition at line 19191 of file DCM.idl.

**8.72.5.721** `FEC_Enc_ErrorGen_t` `DCM::DeviceControl::OutTS_FEC_Enc_ErrorGen_t::FecEncErrorSett`

Definition at line 19447 of file DCM.idl.

**8.72.5.722** `FEC_Enc_Overhead_t` `DCM::DeviceControl::OutTS_FEC_Enc_Overhead_t::FecEncOverhead`

Definition at line 19462 of file DCM.idl.

**8.72.5.723** `FEC_Enc_Setting_t` `DCM::DeviceControl::OutTS_FEC_Enc_Setting_t::FecEncSett`

Definition at line 19380 of file DCM.idl.

**8.72.5.724** `FEC_Enc_Setting_V2_t` `DCM::DeviceControl::OutTS_FEC_Enc_Setting_V2_t::FecEncSett`

Definition at line 19401 of file DCM.idl.

**8.72.5.725** `ETV_ApplicationIdent_List_t` `DCM::DeviceControl::ETV_EissFilter_t::Filter`

Definition at line 17356 of file DCM.idl.

**8.72.5.726** `sequence<string>` `DCM::DeviceControl::IGMPv3Group_t::Filter`

Definition at line 20130 of file DCM.idl.

**8.72.5.727** `eTR_FineDelay` `DCM::DeviceControl::TR_DelayMode_t::FineDelay`

One of the possible predefined finer delay settings.

Definition at line 14954 of file DCM.idl.

**8.72.5.728** `eTR_FineDelay` `DCM::DeviceControl::TR_DelayMode_V2_t::FineDelay`

One of the possible predefined finer delay settings.

Definition at line 14964 of file DCM.idl.

**8.72.5.729** `unsigned long long` `DCM::DeviceControl::FEC_Dec_Statistics_t::FixedPacketCount`

Definition at line 19158 of file DCM.idl.

**8.72.5.730** `unsigned long` `DCM::DeviceControl::PCTM_ThresholdValues_t::FixedPackets`

Definition at line 20281 of file DCM.idl.

**8.72.5.731** `unsigned long long` `DCM::DeviceControl::PCTM_PacketCounters_t::FixedPackets`

Definition at line 20309 of file DCM.idl.

**8.72.5.732** `boolean` `DCM::DeviceControl::IPS_OutPID_Data2_t::FixedPIDRemap`

If Output PID is fixed, this variable is true.

Definition at line 2583 of file DCM.idl.

**8.72.5.733 boolean DCM::DeviceControl::IPS\_Out\_PIDSettings\_t::FixedPIDRemap**

If Output PID is fixed, this variable is true.

Definition at line 5889 of file DCM.idl.

**8.72.5.734 boolean DCM::DeviceControl::IPS\_ServiceData\_Out\_t::FixedRemap**

User forced change of output service ID.

Definition at line 4888 of file DCM.idl.

**8.72.5.735 boolean DCM::DeviceControl::IPS\_ServiceData\_Out\_V2\_t::FixedRemap**

User forced change of output service ID.

Definition at line 4940 of file DCM.idl.

**8.72.5.736 boolean DCM::DeviceControl::IPS\_ServiceData\_Out\_V3\_t::FixedRemap**

User forced change of output service ID.

Definition at line 4971 of file DCM.idl.

**8.72.5.737 boolean DCM::DeviceControl::TimeBaseSelectionMode\_t::FollowDefaultRule**

Indicates if the TS follows the board level default.

Definition at line 2949 of file DCM.idl.

**8.72.5.738 boolean DCM::DeviceControl::TimeBaseSelectionMode\_V2\_t::FollowDefaultRule**

Indicates if the TS follows the board level default.

Definition at line 2989 of file DCM.idl.

**8.72.5.739 boolean DCM::DeviceControl::PriorityBitMode\_t::FollowDefaultRule**

readonly flag indicating if default priority bit settings are used

Definition at line 4344 of file DCM.idl.

**8.72.5.740 boolean DCM::DeviceControl::CompactCaMode\_t::FollowDefaultRule**

readonly flag indicating if default compact CA settings are used

Definition at line 8110 of file DCM.idl.

**8.72.5.741 boolean DCM::DeviceControl::FEC\_Dec\_Setting\_t::FollowDefaultRule**

readonly flag indicating if FEC Default Rule settings are used

Definition at line 19124 of file DCM.idl.

**8.72.5.742 boolean DCM::DeviceControl::IPI\_Settings\_t::FollowDefaultRule**

readonly flag indicating if default priority bit settings are used

Definition at line 29377 of file DCM.idl.

**8.72.5.743 boolean DCM::DeviceControl::DCG\_OutputTS\_t::FollowUserNameOfInputStream**

Definition at line 30094 of file DCM.idl.

**8.72.5.744 FontCfglD.t DCM::DeviceControl::FontCfg\_t::FontCfgID**

unique font configuration identifier (must be 0 when adding a new font configuration)

Definition at line 13784 of file DCM.idl.

**8.72.5.745 string DCM::DeviceControl::FontCfg\_t::FontCfgName**

font configuration name, maximum 64 characters

Definition at line 13787 of file DCM.idl.

**8.72.5.746 unsigned long DCM::DeviceControl::FontCfg\_t::FontProperty**

Read only Bitmap.

- Bit 0: TRUE if the font is in use.

Definition at line 13791 of file DCM.idl.

**8.72.5.747 boolean DCM::DeviceControl::VCT\_Forcing\_t::ForceChannelNumber**

true = use filled in channel number, false = use input channel number

Definition at line 9101 of file DCM.idl.

**8.72.5.748 boolean DCM::DeviceControl::TableGenerationData\_t::ForcedOutputPid**

Indicates if the output pid should be forced or not (=0)

Definition at line 6032 of file DCM.idl.

**8.72.5.749 boolean DCM::DeviceControl::TableGenerationData\_V2\_t::ForcedOutputPid**

Indicates if the output pid should be forced or not (=0)

Definition at line 6054 of file DCM.idl.

**8.72.5.750 boolean DCM::DeviceControl::VCT\_Forcing\_t::ForceLongName**

true = use filled in long name, false = use input long name

Definition at line 9100 of file DCM.idl.

**8.72.5.751 boolean DCM::DeviceControl::VCT\_Forcing\_t::ForceSourceId**

true = use filled in source id, false = use input source id

Definition at line 9102 of file DCM.idl.

**8.72.5.752 boolean DCM::DeviceControl::VCT\_Forcing\_t::ForceUserName**

true = use service user name as short name, false = use input short name

Definition at line 9099 of file DCM.idl.

**8.72.5.753 VCT\_Forcing\_t DCM::DeviceControl::VCT\_SvcSetting\_t::Forcing**

Definition at line 9111 of file DCM.idl.

**8.72.5.754 boolean DCM::DeviceControl::ETTV\_ContentSetting\_t::Forcing**

Definition at line 9644 of file DCM.idl.

**8.72.5.755 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Fragment**

Fragments.

Definition at line 19873 of file DCM.idl.

**8.72.5.756 unsigned long DCM::DeviceControl::MFPB\_MultiResABR\_t::FragmentLength**

Fragment length in seconds (range: 1 to 60s)

Definition at line 11054 of file DCM.idl.

**8.72.5.757 boolean DCM::DeviceControl::MFPB\_MultiResABR\_t::FragmentsEnabled**

Enable ABR syncing via Fragments.

Definition at line 11052 of file DCM.idl.

**8.72.5.758 eFrameBuildUp\_t DCM::DeviceControl::VideoSignalInfo\_t::FrameBuildUp**

Definition at line 30208 of file DCM.idl.

**8.72.5.759 unsigned short DCM::DeviceControl::SlateData\_t::FrameRate**

Definition at line 10084 of file DCM.idl.

**8.72.5.760 eFrameRate\_t DCM::DeviceControl::VideoSignalInfo\_t::FrameRate**

Definition at line 30200 of file DCM.idl.

**8.72.5.761 unsigned long DCM::DeviceControl::MFPB\_VideoStatus\_t::FrameRate1000**

Framerate for 1000 seconds (fps\*1000 eg, 29.97 Hz becomes 29970)

Definition at line 10638 of file DCM.idl.

**8.72.5.762 FrameRateCodes DCM::DeviceControl::SMX\_Encoder\_t::FrameRateCode**

Definition at line 23467 of file DCM.idl.

**8.72.5.763 eTR\_FrameRateDelay DCM::DeviceControl::TR\_DelayMode\_t::FrameRateDelay**

One of the possible predefined frame rate delay settings.

Definition at line 14952 of file DCM.idl.

**8.72.5.764 eTR\_FrameRateDelay DCM::DeviceControl::TR\_DelayMode\_V2\_t::FrameRateDelay**

One of the possible predefined frame rate delay settings.

Definition at line 14962 of file DCM.idl.

**8.72.5.765 boolean DCM::DeviceControl::IPS\_SDT\_Data\_t::FreeCAmode**

RO provides free\_CA\_mode of input (Scrambled = 1)

Definition at line 4855 of file DCM.idl.

**8.72.5.766 unsigned long DCM::DeviceControl::InPort\_8VSB\_TuningParams\_t::Frequency**

In KHz. Valid range is 47000 to 885000, multiples of 125.

Definition at line 7081 of file DCM.idl.

**8.72.5.767 octet DCM::DeviceControl::Color\_t::G**

Definition at line 13874 of file DCM.idl.

**8.72.5.768 string DCM::DeviceControl::IP\_Route\_t::Gateway**

Definition at line 18705 of file DCM.idl.

**8.72.5.769 string DCM::DeviceControl::IP\_Route\_t\_V2::Gateway**

Definition at line 18717 of file DCM.idl.

**8.72.5.770 eGbePortType\_t DCM::DeviceControl::DCG\_OutputRTP\_V2\_Stream\_t::GbePortType**

Definition at line 30125 of file DCM.idl.

**8.72.5.771 boolean DCM::DeviceControl::DCG\_GeneratorConfig\_t::GenEnabled**

Definition at line 30735 of file DCM.idl.

**8.72.5.772 ePIDPassingStatus DCM::DeviceControl::TableGenerationData\_t::GenerationMode**

Specifies what should happen wiht the output table.

Definition at line 6033 of file DCM.idl.

**8.72.5.773 ePIDPassingStatus\_V2 DCM::DeviceControl::TableGenerationData\_V2\_t::Generation-Mode**

Specifies what should happen wiht the output table.

Definition at line 6055 of file DCM.idl.

**8.72.5.774 Time DCM::DeviceControl::MM\_MessageMainPart::GenerationTime**

generation time of the message - see [Time](#) above

Definition at line 22314 of file DCM.idl.

**8.72.5.775 IPS\_RefTS\_t DCM::DeviceControl::DCG\_GeneratorConfig\_t::GeneratorRef**

Definition at line 30734 of file DCM.idl.

**8.72.5.776 IPS\_RefTS\_t DCM::DeviceControl::DCG\_AES\_GeneratorConfig\_t::GeneratorRef**

Definition at line 30805 of file DCM.idl.



**8.72.5.777 unsigned long DCM::DeviceControl::DCG\_GeneratorConfig\_t::GenPropertyBits**

Future use.

Definition at line 30738 of file DCM.idl.

**8.72.5.778 unsigned long DCM::DeviceControl::TC\_PipSettings\_t::GOP\_Length**

Lenght of the GOP. 1 - 30 frames.

Definition at line 13112 of file DCM.idl.

**8.72.5.779 unsigned short DCM::DeviceControl::MFPB\_VideoEncodeSettings\_t::GopBPictures**

Amount of B pictures. Range 0 to 5, default 2. 0 means IPP. (ignored for transrating + see GopStructure constraints)

Definition at line 11015 of file DCM.idl.

**8.72.5.780 unsigned short DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::GopBPictures**

Amount of B pictures. Range 0 to 5, default 2. 0 means IPP. (ignored for transrating + see GopStructure constraints)

Definition at line 11185 of file DCM.idl.

**8.72.5.781 unsigned short DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t::GopBPictures**

Amount of B pictures. Range 0 to 5, default 2. 0 means IPP.

Definition at line 11358 of file DCM.idl.

**8.72.5.782 unsigned short DCM::DeviceControl::MFPB\_VideoEncodeSettings\_t::GopSize**

Number of I coded frames per gop. Range: 1..600, default 15, 1 means no B or P frames (ignored for transrating + GopStructure constraints)

Definition at line 11016 of file DCM.idl.

**8.72.5.783 unsigned short DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::GopSize**

Number of I coded frames per gop. Range: 1..600, default 15, 1 means no B or P frames (ignored for transrating + GopStructure constraints)

Definition at line 11186 of file DCM.idl.

**8.72.5.784 unsigned short DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t::GopSize**

Number of I coded frames per gop. Range: 1..600, default 15, 1 means no B or P frames.

Definition at line 11359 of file DCM.idl.

**8.72.5.785 octet DCM::DeviceControl::DCG\_GeneratorConfig\_t::GreenColorValue**

Definition at line 30740 of file DCM.idl.

**8.72.5.786 unsigned long DCM::DeviceControl::TRBitRateSample\_t::GroupID**

Definition at line 9849 of file DCM.idl.

**8.72.5.787 unsigned long DCM::DeviceControl::TR\_BitRateMeasurement\_t::GroupID**

Definition at line 9859 of file DCM.idl.

**8.72.5.788 TR\_GroupID\_t DCM::DeviceControl::TR\_GroupSettings\_t::GroupID**

The group reference, it should be a valid reference. It cannot be changed anymore after creation.

Definition at line 14978 of file DCM.idl.

**8.72.5.789 TR\_GroupID\_t DCM::DeviceControl::TR\_TSAdd\_t::GroupID**

The group reference. The group should already exist.

Definition at line 14997 of file DCM.idl.

**8.72.5.790 TR\_GroupID\_t DCM::DeviceControl::TR\_GroupServiceSettings\_t::GroupID**

Definition at line 15024 of file DCM.idl.

**8.72.5.791 TR\_GroupID\_t DCM::DeviceControl::TR\_GroupServiceSettings\_V2\_t::GroupID**

Definition at line 15472 of file DCM.idl.

**8.72.5.792 RMX\_GroupID\_t DCM::DeviceControl::RMX\_GroupSettings\_t::GroupID**

ID of the group: read-only, ignored during creation.

Definition at line 15636 of file DCM.idl.

**8.72.5.793 RMX\_GroupID\_t DCM::DeviceControl::RMX\_GroupSvc\_t::GroupID**

The group reference. The group should already exist.

Definition at line 15736 of file DCM.idl.

**8.72.5.794 unsigned long DCM::DeviceControl::SMX\_MFP\_Group\_TSSettings\_t::GroupID**

The group reference. The group should already exist.

Definition at line 16193 of file DCM.idl.

**8.72.5.795 unsigned long DCM::DeviceControl::SMX\_MFP\_Group\_TSs\_t::GroupID**

The group reference. The group should already exist.

Definition at line 16202 of file DCM.idl.

**8.72.5.796 unsigned long DCM::DeviceControl::SMX\_MFP\_Group\_SvcSettings\_t::GroupID**

The group reference. The group should already exist.

Definition at line 16273 of file DCM.idl.

**8.72.5.797 unsigned long DCM::DeviceControl::SMX\_MFP\_Group\_SvcSettings\_V2\_t::GroupID**

The group reference. The group should already exist.

Definition at line 16284 of file DCM.idl.

**8.72.5.798 unsigned long DCM::DeviceControl::SMX\_MFP\_Group\_Svc\_t::GroupID**

The group reference. The group should already exist.

Definition at line 16295 of file DCM.idl.

**8.72.5.799 string DCM::DeviceControl::TR\_GroupSettings\_t::GroupName**

The group name, the same name may be used multiple times.

Definition at line 14979 of file DCM.idl.

**8.72.5.800 eTR\_GroupType DCM::DeviceControl::TR\_GroupSettings\_t::GroupType**

The type of group. It cannot be changed anymore after creation.

Definition at line 14980 of file DCM.idl.

**8.72.5.801 boolean DCM::DeviceControl::SMX36\_VSEParams\_V2\_t::GuaranteeMinBitrate**

if true, enforce minimum bitrate (by stuffing if needed), default: True

Definition at line 24019 of file DCM.idl.

**8.72.5.802 SMX36.PoolGuaranteeMinRateMode\_e DCM::DeviceControl::SMX36\_Pool\_t::GuaranteeMinRateMode**

Controls whether VSE's releases unused videobandwidth below the min rate to the rest of the pool when the video complexity is low.

Definition at line 23794 of file DCM.idl.

**8.72.5.803 unsigned long DCM::DeviceControl::TC\_VideoEncodeSettings\_t::HD\_Bitrate**

5.0 - 12.0Mbps, in bps.

Definition at line 13017 of file DCM.idl.

**8.72.5.804 unsigned long DCM::DeviceControl::TC\_VideoSettings\_t::HD\_Bitrate**

5.0 - 12.0Mbps, in bps.

Definition at line 13065 of file DCM.idl.

**8.72.5.805 boolean DCM::DeviceControl::TC\_VideoDecode\_t::HD\_Service**

If set both SD and HD services can be transcoded.

SD services will use the SD\_Bitrate defined by the encoding settings, HD services will use the HD\_Bitrate defined by the encoding settings.

Definition at line 13033 of file DCM.idl.

**8.72.5.806 boolean DCM::DeviceControl::TC\_VideoSettings\_t::HD\_Service**

If set both SD and HD services can be transcoded. SD services will use SD\_Bitrate, HD services will use HD\_Bitrate.

Definition at line 13066 of file DCM.idl.

**8.72.5.807 unsigned long DCM::DeviceControl::TC\_BoardCfg\_t::HD\_Slots**

Definition at line 12833 of file DCM.idl.

**8.72.5.808 unsigned long DCM::DeviceControl::TC\_BoardCfg\_V2\_t::HD\_Slots**

Definition at line 12851 of file DCM.idl.

**8.72.5.809 MFPB\_VideoEncoderTemplate\_t DCM::DeviceControl::MFPB\_VideoEncodeSettings\_t::HdOutputEncoderTemplate**

Template for HD output. Not used in SD mode.

Definition at line 11011 of file DCM.idl.

**8.72.5.810 MFPB\_VideoEncoderTemplate\_t DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::HdOutputEncoderTemplate**

Template for HD output. Not used in SD mode.

Definition at line 11181 of file DCM.idl.

**8.72.5.811 boolean DCM::DeviceControl::IPS\_ServiceData\_Out\_t::HDSERVICE**

Read/Write: Holds true if service is High definition service false for Standard definition service.

Definition at line 4889 of file DCM.idl.

**8.72.5.812 boolean DCM::DeviceControl::IPS\_ServiceData\_Out\_V2\_t::HDSERVICE**

Read/Write: Holds true if service is High definition service false for Standard definition service.

Definition at line 4941 of file DCM.idl.

**8.72.5.813 boolean DCM::DeviceControl::IPS\_ServiceData\_Out\_V3\_t::HDSERVICE**

Read/Write: Holds true if service is High definition service false for Standard definition service.

Definition at line 4972 of file DCM.idl.

**8.72.5.814 unsigned short DCM::DeviceControl::MFPB\_VideoResolution\_t::Height**

Definition at line 10602 of file DCM.idl.

**8.72.5.815 unsigned short DCM::DeviceControl::TC\_VideoResolution\_t::Height**

Definition at line 13076 of file DCM.idl.

**8.72.5.816 unsigned short DCM::DeviceControl::SlateData\_t::Height**

Definition at line 10083 of file DCM.idl.

**8.72.5.817 eTriBool DCM::DeviceControl::VCT\_Data\_t::Hidden**

true: channel is inactive, should not be listed

Definition at line 9060 of file DCM.idl.

**8.72.5.818 eTriBool DCM::DeviceControl::VCT\_Data\_t::HideGuide**

(only valid when hidden flag is true) true: program may not be listed in program guide

Definition at line 9063 of file DCM.idl.

**8.72.5.819 unsigned long DCM::DeviceControl::TS\_BackupParams\_t::HighToLowPriorityDelay**

time in seconds to wait before switching to backup

Definition at line 21744 of file DCM.idl.

**8.72.5.820 unsigned long DCM::DeviceControl::ServiceBackupParams\_t::HighToLowPriority-Delay**

time in seconds to wait before switching to backup

Definition at line 23043 of file DCM.idl.

**8.72.5.821 unsigned long DCM::DeviceControl::ServiceBackupParams2\_t::HighToLowPriority-Delay**

Definition at line 23097 of file DCM.idl.

**8.72.5.822 unsigned long DCM::DeviceControl::DCG\_StreamBackupParams\_t::HighToLow-PriorityDelay**

Definition at line 30992 of file DCM.idl.

**8.72.5.823 HitlessMergeSetting\_t DCM::DeviceControl::InTS\_HitlessMergeSetting\_t::HitlessMerge-Setting**

Definition at line 19684 of file DCM.idl.

**8.72.5.824 enDCG\_HitlessSwitchOverMode\_t DCM::DeviceControl::DCG\_HitlessSwitchOverEnable-\_t::hitlessSwitchOverMode**

Definition at line 31502 of file DCM.idl.

**8.72.5.825 unsigned short DCM::DeviceControl::RipBoardSettings::HoldTimeout**

[Time](#) to keep advertising alarm metric after TS Loss cleared or TS removed/stopped streaming. Range[1, 1800], default 180.

Definition at line 31936 of file DCM.idl.

**8.72.5.826 unsigned short DCM::DeviceControl::GbeIO\_IP\_Settings\_t::HopLimit\_TTL**

for future use - default value 64

Definition at line 3312 of file DCM.idl.

**8.72.5.827 octet DCM::DeviceControl::Time::Hour**

From 0 to 23.

Definition at line 462 of file DCM.idl.

**8.72.5.828 unsigned long DCM::DeviceControl::Debug\_Gbe\_InputTS\_t::HwIndex**

The hardware index for a stream.

Definition at line 2388 of file DCM.idl.

**8.72.5.829 unsigned long DCM::DeviceControl::Debug\_Gbe\_OutputTS\_t::HwIndex**

The hardware index for a stream.

Definition at line 2452 of file DCM.idl.

**8.72.5.830 unsigned long DCM::DeviceControl::Debug\_DvbS2\_InputTS\_t::HwIndex**

The hardware index for a stream.

Definition at line 7767 of file DCM.idl.

**8.72.5.831 string DCM::DeviceControl::DescrCAM\_Status\_t::HwVersion**

CAM hardware version.

Definition at line 28699 of file DCM.idl.

**8.72.5.832 string DCM::DeviceControl::UniqueDeviceId\_t::Id**

The ID of the info field.

Definition at line 1295 of file DCM.idl.

**8.72.5.833 long DCM::DeviceControl::DescriptorData\_t::ID**

-1 means invalid ID

Definition at line 7829 of file DCM.idl.

**8.72.5.834 long DCM::DeviceControl::MergedESDescriptorData\_t::ID**

Definition at line 8029 of file DCM.idl.

**8.72.5.835 octet DCM::DeviceControl::PsipUpdateLocation\_t::Id**

Definition at line 8466 of file DCM.idl.

**8.72.5.836 ClipID\_t DCM::DeviceControl::SlateData\_t::ID**

Definition at line 10080 of file DCM.idl.

**8.72.5.837 unsigned long DCM::DeviceControl::TR\_GroupID\_t::ID**

Group ID in the range [2, 501], group ID 1 may not be used.

Definition at line 14859 of file DCM.idl.

**8.72.5.838 unsigned long DCM::DeviceControl::SMX\_MFP\_GroupSettings\_t::ID**

ID of the group: read-only, ignored during creation. Only used in Set/Get/Delete commands.

Definition at line 16153 of file DCM.idl.

**8.72.5.839 long DCM::DeviceControl::SMX36\_StatmuxController\_t::Id**

RO Statmux Controller Id.

Definition at line 23724 of file DCM.idl.

**8.72.5.840 long DCM::DeviceControl::SMX36\_Pool\_t::Id**

RO Pool Id.

Definition at line 23782 of file DCM.idl.

**8.72.5.841 long DCM::DeviceControl::SMX36\_Pool\_V2\_t::Id**

RO Pool Id.

Definition at line 23802 of file DCM.idl.

**8.72.5.842 long DCM::DeviceControl::SMX36\_Encoder\_t::Id**

Encoder Id.

Definition at line 23935 of file DCM.idl.

**8.72.5.843 long DCM::DeviceControl::SMX36\_VSE\_t::Id**

RO Unique ID of the video service element.

Definition at line 24047 of file DCM.idl.

**8.72.5.844 long DCM::DeviceControl::SMX36\_VSE\_V2\_t::Id**

RO Unique ID of the video service element.

Definition at line 24066 of file DCM.idl.

**8.72.5.845 long DCM::DeviceControl::SMX36\_VSE\_V3\_t::Id**

RO Unique ID of the video service element, as linked with the VSE after creation.

Definition at line 24113 of file DCM.idl.

**8.72.5.846 long DCM::DeviceControl::SMX36\_VSE\_V4\_t::Id**

RO Unique ID of the video service element, as linked with the VSE after creation.

Definition at line 24164 of file DCM.idl.

**8.72.5.847 long DCM::DeviceControl::SMX36\_VSE\_CalculatedRates\_t::Id**

RO Unique ID of the VSE.

Definition at line 24261 of file DCM.idl.

**8.72.5.848 long DCM::DeviceControl::SMX\_Pool\_Calculate\_t::Id**

RO Pool Id.

Definition at line 24268 of file DCM.idl.

**8.72.5.849 MM\_ID\_Category DCM::DeviceControl::MM\_TypeInfo::ID\_Cat**

Definition at line 22605 of file DCM.idl.

**8.72.5.850 MM\_ID\_Category DCM::DeviceControl::MM\_TypeInfo\_V2::ID\_Cat**

Definition at line 22622 of file DCM.idl.

**8.72.5.851 unsigned long DCM::DeviceControl::DCG\_AES\_GeneratorConfig\_t::iGenPropertyBits**

Future use.

Definition at line 30810 of file DCM.idl.

**8.72.5.852 eFECIncrScheme DCM::DeviceControl::InTS\_FEC\_Dec\_DefRuleSetting\_t::IncrScheme**

Definition at line 19148 of file DCM.idl.

**8.72.5.853 eFECIncrScheme DCM::DeviceControl::OutTS\_FEC\_Enc\_DefSetting\_t::IncrScheme**

default value is increment UDP (eUDP\_OFFSET) (fixed for 4.0 release)

Definition at line 19414 of file DCM.idl.

**8.72.5.854 unsigned short DCM::DeviceControl::ASI\_DTF\_ScramblingKey\_t::Index**

Index in the array of keys, should be <1024.

Definition at line 22079 of file DCM.idl.

**8.72.5.855 string DCM::DeviceControl::UniqueDeviceId\_t::Info**

Unique device identifier info field.

Definition at line 1296 of file DCM.idl.

**8.72.5.856 TableKeys\_t DCM::DeviceControl::TableGenerationData\_t::InKeys**

Keys to locate the desired input table.

Definition at line 6038 of file DCM.idl.

**8.72.5.857 TableKeys\_t DCM::DeviceControl::TableGenerationData\_V2\_t::InKeys**

Keys to locate the desired input table.

Definition at line 6060 of file DCM.idl.

**8.72.5.858 unsigned short DCM::DeviceControl::TableGenerationData\_t::InPid**

Pid on which the specified input table should be found.

Set to INVALID\_PID\_VALUE for an imported table.

Definition at line 6039 of file DCM.idl.

**8.72.5.859 unsigned short DCM::DeviceControl::TableGenerationData\_V2\_t::InPid**

Pid on which the specified input table should be found.

Set to INVALID\_PID\_VALUE for an imported table.



Definition at line 6061 of file DCM.idl.

**8.72.5.860 VCT\_Data\_t DCM::DeviceControl::VCT\_SvcData\_t::Input**

Definition at line 9123 of file DCM.idl.

**8.72.5.861 MultipleString\_t DCM::DeviceControl::ETTV\_ContentData\_t::Input**

Definition at line 9656 of file DCM.idl.

**8.72.5.862 enMFPB\_AudioStatusChannelConfiguration\_t DCM::DeviceControl::MFPB\_AudioStatus\_t::InputChannelConfig**

Definition at line 11613 of file DCM.idl.

**8.72.5.863 enMFPB\_AudioChannelConfiguration\_t DCM::DeviceControl::MFPB\_AudioDecode\_t::InputChannelConfig**

Input channel configuration.

Allowed values are Stereo and 5.1. Use stereo when mono, dual mono or stereo is expected at the input.

Definition at line 11663 of file DCM.idl.

**8.72.5.864 enMFPB\_AudioFormat\_t DCM::DeviceControl::MFPB\_AudioDecode\_t::InputFormat**

Format of the input.

Definition at line 11657 of file DCM.idl.

**8.72.5.865 long DCM::DeviceControl::InPort\_8VSB\_TuningParams\_t::InputLevel**

Output parameter indicating signal level in dBm. If the input level is out of range the InputLevel is set to the minimum or maximum long value, e.g. 2147483647 in case of above measurement range or -2147483648 in case of below measurement range.

Definition at line 7083 of file DCM.idl.

**8.72.5.866 long DCM::DeviceControl::InPort\_8VSB\_Statistics\_t::InputLevel**

Signal level in dBm. If the input level is out of range the InputLevel is set to the minimum or maximum long value, e.g. 2147483647 in case of above measurement range or -2147483648 in case of below measurement range.

Definition at line 7117 of file DCM.idl.

**8.72.5.867 long DCM::DeviceControl::InPort\_DvbS2\_Status\_t::InputLevel**

-80..-20 dBm. If the input level is out of range the InputLevel is set to the minimum or maximum long value, e.g. 2147483647 in case of above measurement range or -2147483648 in case of below measurement range.

Definition at line 7549 of file DCM.idl.

**8.72.5.868 unsigned short DCM::DeviceControl::IPS\_OutPID\_Data\_t::InputPID**

Definition at line 2560 of file DCM.idl.

**8.72.5.869 unsigned short DCM::DeviceControl::IPS\_OutPID\_Data2\_t::InputPID**

Definition at line 2581 of file DCM.idl.

**8.72.5.870 unsigned short DCM::DeviceControl::IPS\_InPID\_Data\_t::InputPID**

Definition at line 2605 of file DCM.idl.

**8.72.5.871 unsigned short DCM::DeviceControl::IPS\_InPID\_Data\_V2\_t::InputPID**

Definition at line 2614 of file DCM.idl.

**8.72.5.872 IPS\_RefPid\_t DCM::DeviceControl::CompPidES\_t::InputPid**

Value of the PID at the input TS.

Definition at line 2826 of file DCM.idl.

**8.72.5.873 IPS\_RefPid\_t DCM::DeviceControl::CompPidES\_V2\_t::InputPid**

Value of the PID at the input TS. < If in the pid ref, board and port are set to 0xFFFF and input TS ref is 0xFFFFFFFF, < this means it is a dummy output elementary stream. A reference for this < ES will be created in the outgoing PMT. On the output TS, the input pid value < will be used as unique identifier and preferred output pid for the dummy ES.

Definition at line 2836 of file DCM.idl.

**8.72.5.874 unsigned short DCM::DeviceControl::SI\_AutoPassRules\_t::InputPid**

PID from which to auto-pass.

Definition at line 2904 of file DCM.idl.

**8.72.5.875 IPS\_RefPid\_t DCM::DeviceControl::PcrSetting\_t::InputPidRef**

If Board, Port and TS Reference are invalid (0xFFFFFFFF), < this means it's a "dummy" PCR. Input PID value is used as < preferred output PID value. When set to INVALID\_PID\_VALUE < this means that the PCR will be removed.

Definition at line 5977 of file DCM.idl.

**8.72.5.876 IPS\_Ref\_t DCM::DeviceControl::InPort\_8VSB\_TuningParams\_t::InputPortRef**

Reference of the input port.

Definition at line 7079 of file DCM.idl.

**8.72.5.877 IPS\_Ref\_t DCM::DeviceControl::InPort\_8VSB\_Config\_t::InputPortRef**

Reference of the 8VSB input port.

Definition at line 7100 of file DCM.idl.

**8.72.5.878 IPS\_Ref\_t DCM::DeviceControl::InPort\_8VSB\_Statistics\_t::InputPortRef**

Reference of the 8VSB input port.

Definition at line 7116 of file DCM.idl.

**8.72.5.879 IPS\_RefTS.t DCM::DeviceControl::TS\_AutoPassRules::InputRef**

The input TS to monitor/subscribe to.

Definition at line 2855 of file DCM.idl.

**8.72.5.880 IPS\_RefTS.t DCM::DeviceControl::SI\_AutoPassRules\_t::InputRef**

TS from which to auto-pass.

Definition at line 2903 of file DCM.idl.

**8.72.5.881 IPS\_RefTS.t DCM::DeviceControl::ASI\_DTF\_t::InputRef**

The reference to the DTF input stream.

Definition at line 21983 of file DCM.idl.

**8.72.5.882 IPS\_RefTS.t DCM::DeviceControl::ASI\_DTF\_Ex\_t::InputRef**

The reference to the DTF input stream.

Definition at line 22001 of file DCM.idl.

**8.72.5.883 IPS\_RefTS.t DCM::DeviceControl::ASI\_DTF\_RDSCS\_t::InputRef**

The reference to the DTF input stream.

Definition at line 22016 of file DCM.idl.

**8.72.5.884 boolean DCM::DeviceControl::IPS\_SDT\_Data\_t::InputSDTPresent**

RO flag.

Definition at line 4849 of file DCM.idl.

**8.72.5.885 ASI\_DTF\_RDSCS\_List.t DCM::DeviceControl::ASI\_DTF\_OutputTS\_RDSCS\_t::Input-Settings**

List of DTF RDSCS input settings.

Definition at line 22060 of file DCM.idl.

**8.72.5.886 ServiceId.t DCM::DeviceControl::IPS\_Service\_In\_t::InputSID**

Definition at line 4743 of file DCM.idl.

**8.72.5.887 unsigned long DCM::DeviceControl::ServiceES\_t::InputSID**

Definition at line 5867 of file DCM.idl.

**8.72.5.888 unsigned long DCM::DeviceControl::IPS\_Out\_PIDSettings\_t::InputSID**

Input Service ID. (Not used : always 0 now)

Definition at line 5886 of file DCM.idl.

**8.72.5.889 unsigned long DCM::DeviceControl::IPS\_In\_ServiceComponents\_t::InputSID**

Definition at line 6015 of file DCM.idl.

**8.72.5.890 eEsTypeStandard DCM::DeviceControl::IPS\_InputTS\_t::InputStandard**

Indicates how different PID (ES) types must be interpreted.

Definition at line 2371 of file DCM.idl.

**8.72.5.891 eEsTypeStandard DCM::DeviceControl::IPS\_ChangeInputTS\_t::InputStandard**

Indicates how different PID (ES) types must be interpreted.

Definition at line 2398 of file DCM.idl.

**8.72.5.892 IPS\_RefTS.t DCM::DeviceControl::IPS\_OutputTS\_LT\_t::InRef**

The location of the InputTS (Board, Port and Ref).

Definition at line 4459 of file DCM.idl.

**8.72.5.893 IPS\_RefTS.t DCM::DeviceControl::IPS\_OutputTS\_LT\_V2\_t::InRef**

The location of the InputTS (Board, Port and Ref).

Definition at line 4476 of file DCM.idl.

**8.72.5.894 IPS\_RefTS.t DCM::DeviceControl::TableGenerationData\_t::InRefTs**

Slot, port and index of the input TS where the table to be used can be found.

Should be set to invalid when the input table has to be retrieved from local disk.

Definition at line 6034 of file DCM.idl.

**8.72.5.895 IPS\_RefTS.t DCM::DeviceControl::TableGenerationData\_V2\_t::InRefTs**

Slot, port and index of the input TS where the table to be used can be found.

Should be set to invalid when the input table has to be retrieved from local disk.

Definition at line 6056 of file DCM.idl.

**8.72.5.896 elnserCATDescriptors DCM::DeviceControl::OutTS\_InsertCATDescriptors\_t::InsertCATDescriptors**

Definition at line 2929 of file DCM.idl.

**8.72.5.897 unsigned long DCM::DeviceControl::DPI\_ChannelSettings\_t::InsertionChannel**

SID.

Definition at line 17025 of file DCM.idl.

**8.72.5.898 unsigned long DCM::DeviceControl::DPI\_ChannelSettings2\_t::InsertionChannel**

SID.

Definition at line 17039 of file DCM.idl.

**8.72.5.899 unsigned long DCM::DeviceControl::DPI\_ChannelSettings3\_t::InsertionChannel**

SID.

Definition at line 17053 of file DCM.idl.

**8.72.5.900    AlternateSrcId\_t DCM::DeviceControl::AlternateSourceSettings\_t::InsertionSourceId**

The ID of the insertion source (0xFFFFFFFF if none is present) (read-only)

Definition at line 17735 of file DCM.idl.

**8.72.5.901    IPS\_RefTS\_t DCM::DeviceControl::DPI\_ChannelSettings\_t::InsertionTs**

Definition at line 17024 of file DCM.idl.

**8.72.5.902    IPS\_RefTS\_t DCM::DeviceControl::DPI\_ChannelSettings2\_t::InsertionTs**

Definition at line 17038 of file DCM.idl.

**8.72.5.903    IPS\_RefTS\_t DCM::DeviceControl::DPI\_ChannelSettings3\_t::InsertionTs**

Definition at line 17052 of file DCM.idl.

**8.72.5.904    eFeatureInstallState DCM::DeviceControl::Feature\_t::Install**

Definition at line 20534 of file DCM.idl.

**8.72.5.905    long DCM::DeviceControl::MM\_MessageTypeErrorInterval::Interval**

Interval in ms. Value must be between 0-46600 (incl boundaries). NB: MAX\_PID\_ERROR\_TIMEOUT = 45000.

Definition at line 22849 of file DCM.idl.

**8.72.5.906    eIOInterfaceType DCM::DeviceControl::BoardCfg\_t::IOInterfaceType**

The type of the port (ASI/GbE).

Definition at line 1661 of file DCM.idl.

**8.72.5.907    eIOInterfaceType\_V2 DCM::DeviceControl::BoardCfg\_V2\_t::IOInterfaceType**

The type of the port (ASI/GbE).

Definition at line 1703 of file DCM.idl.

**8.72.5.908    eIOType DCM::DeviceControl::BoardCfg\_t::IOType**

The direction of the port.

Definition at line 1662 of file DCM.idl.

**8.72.5.909    eIOType\_V2 DCM::DeviceControl::BoardCfg\_V2\_t::IOType**

The direction of the port.

Definition at line 1704 of file DCM.idl.

**8.72.5.910    string DCM::DeviceControl::NTP\_Info\_t::IP**

Definition at line 706 of file DCM.idl.

**8.72.5.911    string DCM::DeviceControl::IPS\_UDP\_Socket\_t::IP**

Definition at line 2312 of file DCM.idl.

**8.72.5.912** string DCM::DeviceControl::IP\_Subnet\_t::IP\_Addr

Definition at line 2063 of file DCM.idl.

**8.72.5.913** string DCM::DeviceControl::ArpEntry\_t::IP\_Addr

e.g. "10.11.52.101"

Definition at line 18601 of file DCM.idl.

**8.72.5.914** string DCM::DeviceControl::IP\_Route\_t::IP\_Addr

use "0.0.0.0" to create a default route

Definition at line 18703 of file DCM.idl.

**8.72.5.915** string DCM::DeviceControl::IP\_Route\_t\_V2::IP\_Addr

Definition at line 18715 of file DCM.idl.

**8.72.5.916** string DCM::DeviceControl::EndDeviceEntry\_t::IP\_Addr

Definition at line 19034 of file DCM.idl.

**8.72.5.917** string DCM::DeviceControl::EasConfig\_t::IP\_Addr

IP address in case of multicast.

Definition at line 29001 of file DCM.idl.

**8.72.5.918** string DCM::DeviceControl::MIP\_SyncTargetSettings\_t::IP\_Address

Definition at line 21885 of file DCM.idl.

**8.72.5.919** string DCM::DeviceControl::TrapDestination::IPAddress

Definition at line 1114 of file DCM.idl.

**8.72.5.920** string DCM::DeviceControl::IpCfg\_t::IpAddress

Definition at line 6668 of file DCM.idl.

**8.72.5.921** boolean DCM::DeviceControl::IPI\_Settings\_t::IPI\_Enabled

Definition at line 29376 of file DCM.idl.

**8.72.5.922** IPI.Settings.t DCM::DeviceControl::InTS\_IPI\_Settings\_t::IPI\_Settings

Definition at line 29385 of file DCM.idl.

**8.72.5.923** unsigned long DCM::DeviceControl::IpServiceDisplayData::IpSvcProperty

Bitmap:

- bit 0: blocked (firewall, configuration, )

Definition at line 24648 of file DCM.idl.

**8.72.5.924 unsigned long DCM::DeviceControl::GbeIO\_IP\_Settings\_t::IPv6\_FlowLabel**

for future use - default value 0

Definition at line 3313 of file DCM.idl.

**8.72.5.925 DvbS2\_Isi\_t DCM::DeviceControl::DvbS2\_LookupTS\_t::Isi**

Input stream identifier.

Definition at line 7651 of file DCM.idl.

**8.72.5.926 DvbS2\_Isi\_t DCM::DeviceControl::DvbS2\_InputTS\_t::Isi**

Input stream identifier (INVALID\_ISI in case of single stream).

Definition at line 7737 of file DCM.idl.

**8.72.5.927 DvbS2\_Isi\_t DCM::DeviceControl::Debug\_DvbS2\_InputTS\_t::Isi**

Input stream identifier (INVALID\_ISI in case of single stream).

Definition at line 7766 of file DCM.idl.

**8.72.5.928 boolean DCM::DeviceControl::SlateData\_t::IsInUse**

Definition at line 10085 of file DCM.idl.

**8.72.5.929 boolean DCM::DeviceControl::InPort\_8VSB\_TuningParams\_t::IsLocked**

Output parameter indicating whether tuner is locked to channel.

Definition at line 7082 of file DCM.idl.

**8.72.5.930 boolean DCM::DeviceControl::TC\_PossibleBoardCfg\_t::isPossible**

Is it possible to apply this board configuration.

Definition at line 12840 of file DCM.idl.

**8.72.5.931 boolean DCM::DeviceControl::TC\_PossibleBoardCfg\_V2\_t::isPossible**

Is it possible to apply this board configuration.

Definition at line 12862 of file DCM.idl.

**8.72.5.932 boolean DCM::DeviceControl::DCG\_Possible3GBoardCfg\_t::isPossible**

Is it possible to apply this board configuration.

Definition at line 31118 of file DCM.idl.

**8.72.5.933 IpCfgList\_t DCM::DeviceControl::VlanPortSet\_t::ItfAddresses**

Configured addresses of the vlan interfaces.

sequence length must match number of ports in the physical portset, i.e. 2 for now.

Definition at line 6688 of file DCM.idl.

**8.72.5.934 string DCM::DeviceControl::IpServiceDisplayData::ItfName**

Interface of listening port, or 'all'.

Definition at line 24640 of file DCM.idl.

**8.72.5.935 double DCM::DeviceControl::NTP\_Stats\_t::Jitter**

The estimated time error of the system clock measured as an exponential average of RMS time differences.

Definition at line 701 of file DCM.idl.

**8.72.5.936 TableKeysExt\_t DCM::DeviceControl::DescriptorRuleSet\_t::Key**

Definition at line 7845 of file DCM.idl.

**8.72.5.937 string DCM::DeviceControl::Feature\_t::Key**

Max string length 36.

Definition at line 20541 of file DCM.idl.

**8.72.5.938 unsigned long DCM::DeviceControl::Scte35Data\_Keyer\_t::Keyer\_id**

Definition at line 8652 of file DCM.idl.

**8.72.5.939 unsigned long DCM::DeviceControl::Scte35Data\_Keyer\_config\_t::Keyer\_id**

Definition at line 8659 of file DCM.idl.

**8.72.5.940 boolean DCM::DeviceControl::Scte35Data\_Keyer\_t::Keyer\_on\_indicator**

Definition at line 8653 of file DCM.idl.

**8.72.5.941 TC\_KeyerID\_t DCM::DeviceControl::TC\_LogoKeyerID\_t::KeyerID**

Definition at line 14107 of file DCM.idl.

**8.72.5.942 TableKeys\_t DCM::DeviceControl::PSIGSubTable\_t::Keys**

Table Keys (extracted from the sections which were provisioned)

Definition at line 8346 of file DCM.idl.

**8.72.5.943 unsigned short DCM::DeviceControl::FEC\_Dec\_Status\_t::L\_RowLength**

Definition at line 19180 of file DCM.idl.

**8.72.5.944 unsigned short DCM::DeviceControl::FEC\_Enc\_Setting\_t::L\_RowLength**

default value L = 10

Definition at line 19373 of file DCM.idl.

**8.72.5.945 unsigned short DCM::DeviceControl::FEC\_Enc\_Setting\_V2\_t::L\_RowLength**

default value L = 10

Definition at line 19394 of file DCM.idl.



**8.72.5.946 unsigned short DCM::DeviceControl::OutTS\_FEC\_Enc\_DefSetting\_t::L\_RowLength**

note: the name of this member changed from 5.0->5.1.

The old name was L\_ColDepth

Definition at line 19424 of file DCM.idl.

**8.72.5.947 string DCM::DeviceControl::IPS\_LanguageSettings\_t::LanguageCode**

ISO\_639\_language\_code.

Definition at line 5876 of file DCM.idl.

**8.72.5.948 string DCM::DeviceControl::MultipleStringElement\_t::LanguageCode**

Definition at line 8836 of file DCM.idl.

**8.72.5.949 string DCM::DeviceControl::TC\_CaptionInfo\_t::LanguageCode**

ISO\_639\_language\_code. Fixed length of 3 bytes !

Definition at line 10173 of file DCM.idl.

**8.72.5.950 unsigned long DCM::DeviceControl::DPI\_ShortChannelStatus\_t::LastError**

Definition at line 17015 of file DCM.idl.

**8.72.5.951 long DCM::DeviceControl::NTP\_Stats\_t::LastPoll**

[Time](#) that elapsed since last poll attempt.

Definition at line 696 of file DCM.idl.

**8.72.5.952 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::LateCollision**

Late collisions.

Definition at line 19895 of file DCM.idl.

**8.72.5.953 unsigned short DCM::DeviceControl::FEC\_Dec\_Status\_t::Latency**

in ms fixed point 1 digit (x10)

Definition at line 19184 of file DCM.idl.

**8.72.5.954 long DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::lAudioLevel**

Reserved for future.

Definition at line 12677 of file DCM.idl.

**8.72.5.955 long DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::lAuxDialnorm**

Dialnorm (dB) times 10.

Definition at line 12688 of file DCM.idl.

**8.72.5.956 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::lAuxDialogNormalizationLevel**

Aux Dialog Normalization Level, Unit in [dB] - Range [-31 <-> -1] - [-23 by default].

Definition at line 12131 of file DCM.idl.

**8.72.5.957 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::lAuxDialogNormalizationLevel**

Aux Dialog Normalization Level, Unit in [dB] - Range [-31 <-> -1] - [-23 by default]. Only used for dual mono.

Definition at line 12302 of file DCM.idl.

**8.72.5.958 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::lAuxMixingLevel**

Aux Mixing Level, Unit in [dB] - Range [80 <-> 111] - [105 by default].

Definition at line 12130 of file DCM.idl.

**8.72.5.959 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::lAuxMixingLevel**

Aux Mixing Level, Unit in [dB] - Range [80 <-> 111] - [105 by default]. Only used for dual mono.

Definition at line 12290 of file DCM.idl.

**8.72.5.960 long DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::lAuxMixLevel**

Mix Level (dB) times 10.

Definition at line 12689 of file DCM.idl.

**8.72.5.961 long DCM::DeviceControl::MFPB\_AudioDecodeExtraAACSettings\_t::lCenterCoefficient**

Center Coefficient TODO: range and default.

Definition at line 12460 of file DCM.idl.

**8.72.5.962 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::lCentreMixLevel**

For Future functionality, Unit in [dB].

Definition at line 12115 of file DCM.idl.

**8.72.5.963 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::lCentreMixLevel**

Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-3 (default), -4.5, -6]. Ignored if enExtendedBSI\_Mode is XBSI mode.

Definition at line 12264 of file DCM.idl.

**8.72.5.964 long DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::lCentreMixLevel**

Center Mix Level dB times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-3, -4.5, -6].

Definition at line 12693 of file DCM.idl.

**8.72.5.965 IPS\_RefTS\_t DCM::DeviceControl::DCG\_3D\_pair\_t::left**

Definition at line 30222 of file DCM.idl.

**8.72.5.966 enDCG\_AudioResolution\_t DCM::DeviceControl::DCG\_AudioSignalInfo\_t::LeftCh-Coding**

Resolution of audio left channel.

Definition at line 31210 of file DCM.idl.

**8.72.5.967 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Length\_Type\_Bad**

Length/Type out of range.

Definition at line 19870 of file DCM.idl.

**8.72.5.968 long DCM::DeviceControl::TR\_AudioLevel\_t::Level**

Audio level change, in db. Between -31 and +31 < Positive values indicate amplification, negative ones attenuation.

Definition at line 16859 of file DCM.idl.

**8.72.5.969 DeviceLevel DCM::DeviceControl::MM\_TypeInfo::Level**

Definition at line 22604 of file DCM.idl.

**8.72.5.970 DeviceLevel DCM::DeviceControl::MM\_TypeInfo\_V2::Level**

Definition at line 22621 of file DCM.idl.

**8.72.5.971 long DCM::DeviceControl::MFPB\_AudioEncodeSettings\_t::LevelAdjustment**

Unit in dB times 10, Gui range -20 to 20 this is equivalent to value range -200 to 200.

Definition at line 11771 of file DCM.idl.

**8.72.5.972 short DCM::DeviceControl::TC\_AudioSettings\_t::LevelControl**

-20 to 20 dB, in 1/1000 dB.

Definition at line 13139 of file DCM.idl.

**8.72.5.973 eChannelLicenseStatus DCM::DeviceControl::DPI\_ShortChannelStatus\_t::License**

Definition at line 17012 of file DCM.idl.

**8.72.5.974 boolean DCM::DeviceControl::TC\_CaptionInfo\_t::Line21\_Field**

Only interpreted if DigitalCC == 0. 0 means field 1, else field 2.

Definition at line 10175 of file DCM.idl.

**8.72.5.975 long DCM::DeviceControl::RoutingStatusRecord\_t::LineNumber**

Line number on which error occurred.

Definition at line 2801 of file DCM.idl.

**8.72.5.976 DeviceBackupLinkList\_t DCM::DeviceControl::DeviceBackupParamsV2\_t::Links**

Links towards peer (0 in case of standalone)

Definition at line 21169 of file DCM.idl.

**8.72.5.977 long DCM::DeviceControl::MFPB\_AudioEncodeSettings\_t::LipSyncAdjustment**

+/- 300 ms for lipsync adjustment.

Definition at line 11774 of file DCM.idl.

**8.72.5.978 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::ILoRoCentreMixLevel**

For Future functionality, Unit in [dB].

Definition at line 12138 of file DCM.idl.

**8.72.5.979 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::ILoRoCentreMixLevel**

Lo/Ro Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [3, 1.5, 0, -1.5, -3 (default), -4.5, -6, -99.9 (Infinite)].

Definition at line 12309 of file DCM.idl.

**8.72.5.980 long DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::ILoRoCentreMixLevel**

Lo/Ro Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [3, 1.5, 0, -1.5, -3, -4.5, -6, -99.9 (Infinite)].

Definition at line 12699 of file DCM.idl.

**8.72.5.981 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::ILoRoSurroundMixLevel**

For Future functionality, Unit in [dB].

Definition at line 12139 of file DCM.idl.

**8.72.5.982 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::ILoRoSurroundMixLevel**

Lo/Ro Surround Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-1.5, -3 (default), -4.5, -6, -99.9 (Infinite)].

Definition at line 12310 of file DCM.idl.

**8.72.5.983 long DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::ILoRoSurroundMixLevel**

Lo/Ro Surround Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-1.5, -3, -4.5, -6, -99.9 (Infinite)].

Definition at line 12700 of file DCM.idl.

**8.72.5.984 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::ILtRtCentreMixLevel**

For Future functionality, Unit in [dB].

Definition at line 12135 of file DCM.idl.

**8.72.5.985 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::ILtRtCentreMixLevel**

Lt/Rt Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [3, 1.5, 0, -1.5, -3 (default), -4.5, -6, -99.9 (Infinite)].

Definition at line 12307 of file DCM.idl.

**8.72.5.986 long DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::ILtRtCentreMixLevel**

Lt/Rt Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [3, 1.5, 0, -1.5, -3, -4.5, -6, -99.9 (Infinite)].

Definition at line 12697 of file DCM.idl.

**8.72.5.987 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::ILtRtSurroundMixLevel**

For Future functionality, Unit in [dB].

Definition at line 12137 of file DCM.idl.

**8.72.5.988 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::ILtRtSurroundMixLevel**

Lt/Rt Surround Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [ -1.5, -3 (default), -4.5, -6, -99.9 (Infinite)].

Definition at line 12308 of file DCM.idl.

**8.72.5.989 long DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::ILtRtSurroundMixLevel**

Lt/Rt Surround Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [ -1.5, -3, -4.5, -6, -99.9 (Infinite)].

Definition at line 12698 of file DCM.idl.

**8.72.5.990 long DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::IMainDialnorm**

Dialnorm (dB) times 10.

Definition at line 12684 of file DCM.idl.

**8.72.5.991 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::IMainDialogNormalizationLevel**

Dialog Normalization Level, Unit in [dB] - Range [-31 <-> -1] - [-23 by default].

Definition at line 12125 of file DCM.idl.

**8.72.5.992 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::IMainDialogNormalizationLevel**

Definition at line 12285 of file DCM.idl.

**8.72.5.993 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::IMainMixingLevel**

Mixing Level, Unit in [dB] - Range [80 <-> 111] - [105 by default].

Definition at line 12124 of file DCM.idl.

**8.72.5.994 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::lMainMixingLevel**

Mixing Level, Unit in [dB] - Range [80 <-> 111] - [105 by default].

Definition at line 12273 of file DCM.idl.

**8.72.5.995 long DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::lMainMixLevel**

Mix Level (dB) times 10.

Definition at line 12685 of file DCM.idl.

**8.72.5.996 eDvbS2\_LNC\_Band\_t DCM::DeviceControl::InPort\_DvbS2\_Status\_t::LNC\_Band**

actual RF band (low or high)

Definition at line 7562 of file DCM.idl.

**8.72.5.997 eDvbS2\_LncType\_t DCM::DeviceControl::InPort\_DvbS2\_LncCfg\_t::LncType**

single band / dual band

Definition at line 7486 of file DCM.idl.

**8.72.5.998 unsigned long DCM::DeviceControl::ResourcesLoad\_t::Load100**

The relative load of resources times 100. If the value is 3456, the load is 34.56%.

Definition at line 10310 of file DCM.idl.

**8.72.5.999 enLocalFeedAvailableIndicator DCM::DeviceControl::Scte35Data\_Local\_avail\_t::Local\_avail\_indicator**

Definition at line 8646 of file DCM.idl.

**8.72.5.1000 string DCM::DeviceControl::IpServiceDisplayData::LocalIp**

IP address of local itf or 0.0.0.0 (any)

Definition at line 24641 of file DCM.idl.

**8.72.5.1001 unsigned short DCM::DeviceControl::IpServiceDisplayData::LocalPort**

Port number of listening port.

Definition at line 24643 of file DCM.idl.

**8.72.5.1002 IPS\_Ref\_t DCM::DeviceControl::BoardCfg\_t::Location**

The board location and port.

Definition at line 1658 of file DCM.idl.

**8.72.5.1003 IPS\_Ref\_t DCM::DeviceControl::BoardCfg\_V2\_t::Location**

The board location and port.

Definition at line 1700 of file DCM.idl.

**8.72.5.1004 IPS\_Ref.t DCM::DeviceControl::AsiFormatData\_t::Location**

Definition at line 6639 of file DCM.idl.

**8.72.5.1005 IPS\_Ref.t DCM::DeviceControl::ASI\_BW\_LimitData\_t::Location**

Definition at line 6956 of file DCM.idl.

**8.72.5.1006 unsigned long DCM::DeviceControl::TableKeysExt\_t::Location**

e.g. Event ID, TS\_ID, SID, PID,

Definition at line 7809 of file DCM.idl.

**8.72.5.1007 PsipUpdateLocation.t DCM::DeviceControl::PsipUpdateRule\_t::Location**

Definition at line 8487 of file DCM.idl.

**8.72.5.1008 IPS\_RefTS.t DCM::DeviceControl::RMX\_GroupSettings\_t::Location**

Location of group (depends on Type: can be TS or Port only): write-once on creation, read-only after creation. REQUIREMENT: Should be a port for group type MultiTS and be a TS for the other group types.

Definition at line 15642 of file DCM.idl.

**8.72.5.1009 IPS\_RefTS.t DCM::DeviceControl::SMX\_MFP\_GroupSettings\_t::Location**

Location of group (depends on Type: can be TS or Port only): write-once on creation, read only in the other cases. REQUIREMENT: Should be a port for group type MultiTS and be a TS for the other group types.

Definition at line 16158 of file DCM.idl.

**8.72.5.1010 unsigned long DCM::DeviceControl::InPort\_DvbS2\_LncCfg\_t::LoFrequency**

(single + dual) 1000000..20000000 KHz, step 125 KHz

Definition at line 7487 of file DCM.idl.

**8.72.5.1011 unsigned long DCM::DeviceControl::InPort\_DvbS2\_LncCfg\_t::LoFrequencyHigh**

(dual only) 1000000..20000000 KHz, step 125 KHz

Definition at line 7488 of file DCM.idl.

**8.72.5.1012 TC\_LogoSettingList.t DCM::DeviceControl::TC\_Logo\_t::Logo**

Definition at line 14074 of file DCM.idl.

**8.72.5.1013 boolean DCM::DeviceControl::Scte35Data\_Logo\_enable\_t::Logo\_enable**

Definition at line 8673 of file DCM.idl.

**8.72.5.1014 unsigned long DCM::DeviceControl::Scte35Data\_Keyer\_config\_t::Logo\_file\_number**

Definition at line 8660 of file DCM.idl.

**8.72.5.1015 LogoCfg\_t DCM::DeviceControl::TC\_LogoSetting\_t::LogoCfg**

logo configuration

Definition at line 14066 of file DCM.idl.

**8.72.5.1016 LogoCfg\_t DCM::DeviceControl::TC\_LogoCfg\_t::LogoCfg**

Definition at line 14097 of file DCM.idl.

**8.72.5.1017 LogoCfgID\_t DCM::DeviceControl::LogoCfg\_t::LogoCfgID**

unique logo configuration identifier (must be 0 when adding a new logo configuration)

Definition at line 13810 of file DCM.idl.

**8.72.5.1018 LogoCfgID\_t DCM::DeviceControl::LogoCfgFileNumber\_t::LogoCfgID**

Definition at line 13857 of file DCM.idl.

**8.72.5.1019 LogoCfgID\_t DCM::DeviceControl::TC\_ServiceLogoCfgID\_t::LogoCfgID**

Definition at line 14116 of file DCM.idl.

**8.72.5.1020 string DCM::DeviceControl::LogoCfg\_t::LogoCfgName**

logo configuration name, maximum 64 characters

Definition at line 13813 of file DCM.idl.

**8.72.5.1021 TC\_LogoDisplayList\_t DCM::DeviceControl::TC\_ServiceLogoDisplay\_t::LogoDisplay**

Definition at line 14089 of file DCM.idl.

**8.72.5.1022 LogoFileNumber\_t DCM::DeviceControl::LogoCfgFileNumber\_t::LogoFileNumber**

Definition at line 13858 of file DCM.idl.

**8.72.5.1023 unsigned long DCM::DeviceControl::LogoCfg\_t::LogoProperty**

Read only Bitmap.

- Bit 0: TRUE if the logo is in use.

Definition at line 13843 of file DCM.idl.

**8.72.5.1024 MultipleString\_t DCM::DeviceControl::VCT\_Data\_t::LongName**

more describing channel name optionally passed as descriptor. Empty string

Definition at line 9054 of file DCM.idl.

**8.72.5.1025 IPS\_LookupTS\_t DCM::DeviceControl::IPS\_ReferenceTS\_t::LookUpTS**

Definition at line 2543 of file DCM.idl.

**8.72.5.1026 DvbS2\_LookupTS\_t DCM::DeviceControl::DvbS2\_RefTS\_t::LookupTS**

the TS that needed looking up.



Definition at line 7660 of file DCM.idl.

**8.72.5.1027 unsigned short DCM::DeviceControl::LogoCfg\_t::LoopCount**

Number of times an animated logo should be displayed: loop count of 0 means animation is played continuously, loop count of 3 means animation is played three times.

Definition at line 13823 of file DCM.idl.

**8.72.5.1028 boolean DCM::DeviceControl::TC\_VideoEncodeSettings\_t::LoopFilter**

Definition at line 13018 of file DCM.idl.

**8.72.5.1029 boolean DCM::DeviceControl::TC\_VideoSettings\_t::LoopFilter**

Definition at line 13067 of file DCM.idl.

**8.72.5.1030 unsigned short DCM::DeviceControl::ForbiddenPidRange\_t::LowerPidValue**

Lower limit of the forbidden pid range.

Definition at line 3722 of file DCM.idl.

**8.72.5.1031 unsigned long DCM::DeviceControl::TS\_BackupParams\_t::LowToHighPriorityDelay**

time in seconds to wait before switching back to main input

Definition at line 21745 of file DCM.idl.

**8.72.5.1032 unsigned long DCM::DeviceControl::ServiceBackupParams\_t::LowToHighPriority-Delay**

time in seconds to wait before switching back to main input

Definition at line 23044 of file DCM.idl.

**8.72.5.1033 unsigned long DCM::DeviceControl::ServiceBackupParams2\_t::LowToHighPriority-Delay**

Definition at line 23098 of file DCM.idl.

**8.72.5.1034 unsigned long DCM::DeviceControl::DCG\_StreamBackupParams\_t::LowToHigh-PriorityDelay**

Definition at line 30993 of file DCM.idl.

**8.72.5.1035 long DCM::DeviceControl::MFPB\_AudioDecodeExtraAACSettings\_t::lSurround-Coefficient**

Surround Coefficient TODO range and default.

Definition at line 12462 of file DCM.idl.

**8.72.5.1036 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::lSurroundMixLevel**

For Future functionality, Unit in [dB].

Definition at line 12116 of file DCM.idl.

**8.72.5.1037 long DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::lSurroundMixLevel**

Surround Mix Level (dB) times 10 (eg. value -60 will be -6 in the GUI). Discrete values [-3 (default), -6, -99.9 (Infinite)]. Ignored if enExtendedBSI\_Mode is XBSI mode.

Definition at line 12265 of file DCM.idl.

**8.72.5.1038 long DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::lSurroundMixLevel**

Surround Mix Level dB times 10 (eg. value -60 will be -6 in the GUI). Discrete values [-3, -6, -99.9 (Infinite)].

Definition at line 12694 of file DCM.idl.

**8.72.5.1039 boolean DCM::DeviceControl::ServiceCompSettings\_t::m\_bForced**

Definition at line 5751 of file DCM.idl.

**8.72.5.1040 boolean DCM::DeviceControl::ServiceCompSettings\_t::m\_bTracked**

Definition at line 5752 of file DCM.idl.

**8.72.5.1041 boolean DCM::DeviceControl::SrcAddr\_t::m\_bUsePortIp**

If this flag is true, the ip address of the port is used as source ip address.

Otherwise, m\_Ip applies

Definition at line 18172 of file DCM.idl.

**8.72.5.1042 string DCM::DeviceControl::TOT\_Timezone\_t::m\_CountryCode**

Definition at line 2763 of file DCM.idl.

**8.72.5.1043 octet DCM::DeviceControl::TOT\_Timezone\_t::m\_CountryRegionId**

Definition at line 2764 of file DCM.idl.

**8.72.5.1044 boolean DCM::DeviceControl::OutTS\_SrcAddr\_V2\_t::m\_DynamicSrcUdpPort**

Definition at line 18200 of file DCM.idl.

**8.72.5.1045 ePIDPassingStatus DCM::DeviceControl::ServicePIDStatus\_t::m\_ePID\_Status**

The new passing status.

Definition at line 5726 of file DCM.idl.

**8.72.5.1046 ePIDPassingStatus DCM::DeviceControl::ServiceCompSettings\_t::m\_ePID\_Status**

The new passing status.

Definition at line 5749 of file DCM.idl.

**8.72.5.1047 enuRuleSetting DCM::DeviceControl::ComponentTrackRule\_t::m\_eRuleSetting**

Definition at line 5801 of file DCM.idl.

**8.72.5.1048 enuRuleSetting DCM::DeviceControl::ComponentTrackRule\_V2\_t::m\_eRuleSetting**

Definition at line 5813 of file DCM.idl.

**8.72.5.1049 enuDefaultRuleSetting DCM::DeviceControl::DefaultTrackRule\_t::m\_eRuleSetting**

Definition at line 5841 of file DCM.idl.

**8.72.5.1050 eEsTypeStandard DCM::DeviceControl::IPS\_Service\_In\_t::m\_EsTypeStandard**

The standard of the input TS.

Definition at line 4752 of file DCM.idl.

**8.72.5.1051 enuTrackType DCM::DeviceControl::ComponentTrackRule\_t::m\_eTrackType**

Definition at line 5793 of file DCM.idl.

**8.72.5.1052 enuTrackType DCM::DeviceControl::DefaultTrackRule\_t::m\_eTrackType**

Definition at line 5833 of file DCM.idl.

**8.72.5.1053 string DCM::DeviceControl::SrcAddr\_t::m\_Ip**

This field has no effect if m\_bUsePortIp is true.

If this Ip address is used, it is used for both normal packets and fec packets, both main and backup. Must be a valid unicast address.

Definition at line 18178 of file DCM.idl.

**8.72.5.1054 octet DCM::DeviceControl::ComponentTag\_t::m\_ocComponentTag**

Definition at line 5764 of file DCM.idl.

**8.72.5.1055 octet DCM::DeviceControl::ComponentTrackRule\_t::m\_ocComponentTag**

valid if component tag tracking

Definition at line 5794 of file DCM.idl.

**8.72.5.1056 octet DCM::DeviceControl::DefaultTrackRule\_t::m\_ocComponentTag**

valid if component tag tracking

Definition at line 5834 of file DCM.idl.

**8.72.5.1057 octet DCM::DeviceControl::ComponentTrackRule\_t::m\_ocStreamType**

valid if stream type tracking

Definition at line 5795 of file DCM.idl.

**8.72.5.1058 octet DCM::DeviceControl::DefaultTrackRule\_t::m\_ocStreamType**

valid if stream type tracking

Definition at line 5835 of file DCM.idl.

**8.72.5.1059 InPID\_Data.t DCM::DeviceControl::ServicePIDStatus\_t::m\_PidRef**

Reference to the input pid to be blocked.

Definition at line 5734 of file DCM.idl.

**8.72.5.1060 InPID\_Data.t DCM::DeviceControl::ServiceCompSettings\_t::m\_PidRef**

Reference to the input pid to be blocked.

Definition at line 5748 of file DCM.idl.

**8.72.5.1061 IPS\_RefTS.t DCM::DeviceControl::InEMM\_Ref\_t::m\_RefTS**

The Slot, Port and Index of the input TS.

Definition at line 2626 of file DCM.idl.

**8.72.5.1062 IPS\_RefTS.t DCM::DeviceControl::InPID\_Data\_t::m\_RefTS**

The Slot, Port and Index of the input TS.

Definition at line 5712 of file DCM.idl.

**8.72.5.1063 IPS\_RefTS.t DCM::DeviceControl::OutTS\_SrcAddr\_t::m\_RefTs**

Definition at line 18190 of file DCM.idl.

**8.72.5.1064 IPS\_RefTS.t DCM::DeviceControl::OutTS\_SrcAddr\_V2\_t::m\_RefTs**

Definition at line 18198 of file DCM.idl.

**8.72.5.1065 IPS\_RefTS.t DCM::DeviceControl::ComponentTag\_t::m\_RefTsOut**

The Slot, Port and Index.

Definition at line 5761 of file DCM.idl.

**8.72.5.1066 IPS\_Service.t DCM::DeviceControl::ComponentTrackRule\_t::m\_Service**

Sid can be INVALID\_SID\_VALUE in case of a TS PID.

Definition at line 5792 of file DCM.idl.

**8.72.5.1067 IPS\_Service.t DCM::DeviceControl::ComponentTrackRule\_V2\_t::m\_Service**

Sid can be INVALID\_SID\_VALUE in case of a TS PID.

Definition at line 5810 of file DCM.idl.

**8.72.5.1068 SrcAddr.t DCM::DeviceControl::OutTS\_SrcAddr\_t::m\_SrcAddr**

Definition at line 18191 of file DCM.idl.

**8.72.5.1069 SrcAddr.t DCM::DeviceControl::OutTS\_SrcAddr\_V2\_t::m\_SrcAddr**

Definition at line 18199 of file DCM.idl.

**8.72.5.1070 string DCM::DeviceControl::ComponentTrackRule\_t::m\_strLanguage**

valid if stream type tracking and audio streamtype

Definition at line 5796 of file DCM.idl.

**8.72.5.1071 string DCM::DeviceControl::DefaultTrackRule\_t::m\_strLanguage**

valid if stream type tracking and audio streamtype

Definition at line 5836 of file DCM.idl.

**8.72.5.1072 string DCM::DeviceControl::TOT\_Timezone\_t::m\_Timezone**

Definition at line 2765 of file DCM.idl.

**8.72.5.1073 TrackingCriterium.t DCM::DeviceControl::ComponentTrackRule\_V2\_t::m\_Track-Criterium**

Definition at line 5811 of file DCM.idl.

**8.72.5.1074 unsigned short DCM::DeviceControl::SrcAddr\_t::m\_UdpPort**

The Port Number to use as source udp port.

Always applicable, m\_bUsePortIp has no effect.

Definition at line 18182 of file DCM.idl.

**8.72.5.1075 unsigned long DCM::DeviceControl::ComponentTrackRule\_t::m\_ulDescriptorTag**

0x56 for teletext descriptor

Definition at line 5797 of file DCM.idl.

**8.72.5.1076 unsigned long DCM::DeviceControl::DefaultTrackRule\_t::m\_ulDescriptorTag**

0x56 for teletext descriptor

Definition at line 5837 of file DCM.idl.

**8.72.5.1077 unsigned long DCM::DeviceControl::ComponentTrackRule\_t::m\_ulID**

Definition at line 5791 of file DCM.idl.

**8.72.5.1078 unsigned long DCM::DeviceControl::ComponentTrackRule\_V2\_t::m\_ulID**

Definition at line 5809 of file DCM.idl.

**8.72.5.1079 unsigned long DCM::DeviceControl::DefaultTrackRule\_t::m\_ulID**

Definition at line 5832 of file DCM.idl.

**8.72.5.1080 unsigned long DCM::DeviceControl::ServicePIDStatus\_t::m\_ulOutputSID**

Output service ID value.

Will be ignored if == INVALID\_SID\_VALUE.

Definition at line 5727 of file DCM.idl.

**8.72.5.1081 unsigned long DCM::DeviceControl::ServiceCompSettings\_t::m\_ulOutputSID**

Output service ID value. Will be ignored if INVALID\_SID\_VALUE.

Definition at line 5742 of file DCM.idl.

**8.72.5.1082 unsigned long DCM::DeviceControl::ComponentTag\_t::m\_ulOutputSid**

Definition at line 5762 of file DCM.idl.

**8.72.5.1083 unsigned long DCM::DeviceControl::ServicePIDStatus\_t::m\_ulPCR**

1 means (un)block the PCR PID in this service (other information will be ignored).

0 means that it's not the PCR PID to block.

**Note**

It maybe necessary to use ePIDPassBlock\_PID\_Type but other types then PCR can be autodetected.

Definition at line 5729 of file DCM.idl.

**8.72.5.1084 unsigned long DCM::DeviceControl::ServiceCompSettings\_t::m\_ulPCR**

1 means (un)block the PCR PID in this service (other information will be ignored).

0 means that it's not the PCR PID to block.

**Note**

It maybe necessary to use ePIDPassBlock\_PID\_Type but other types than PCR can be autodetected.

Definition at line 5743 of file DCM.idl.

**8.72.5.1085 unsigned long DCM::DeviceControl::ServiceCompSettings\_t::m\_ulTrackRuleID**

Definition at line 5753 of file DCM.idl.

**8.72.5.1086 unsigned short DCM::DeviceControl::InPID\_Data\_t::m\_usECM\_PID**

Value of the ES ECMPID at the input TS when PID is valid or the ECM pid at service level.

Will only be interpreted when different from INVALID\_PID\_VALUE.

Definition at line 5716 of file DCM.idl.

**8.72.5.1087 unsigned short DCM::DeviceControl::ComponentTrackRule\_t::m\_usEsPreferred-OutputPid**

valid if pid tracking for ECM pid: parent must exist.

Definition at line 5799 of file DCM.idl.

**8.72.5.1088 unsigned short DCM::DeviceControl::DefaultTrackRule\_t::m\_usEsPreferredOutput-Pid**

valid if pid tracking for ECM pid: parent must exist.

Definition at line 5839 of file DCM.idl.

**8.72.5.1089 unsigned short DCM::DeviceControl::ComponentTrackRule\_t::m\_usInputPid**

valid is pid tracking (ES, ECM and ES-ECM: always THE input pid)

Definition at line 5798 of file DCM.idl.

**8.72.5.1090 unsigned short DCM::DeviceControl::DefaultTrackRule\_t::m\_usInputPid**

valid is pid tracking (ES, ECM and ES-ECM: always THE input pid)

Definition at line 5838 of file DCM.idl.

**8.72.5.1091 unsigned short DCM::DeviceControl::ServiceCompSettings\_t::m\_usOutputPid**

Definition at line 5750 of file DCM.idl.

**8.72.5.1092 unsigned short DCM::DeviceControl::ComponentTag\_t::m\_usOutputPid**

Definition at line 5763 of file DCM.idl.

**8.72.5.1093 unsigned short DCM::DeviceControl::InEMM\_Ref\_t::m\_usPID**

The reference to the input EMM pid.

Definition at line 2627 of file DCM.idl.

**8.72.5.1094 unsigned short DCM::DeviceControl::InPID\_Data\_t::m\_usPID**

The reference to the input pid to be blocked Is a service ES pid or EMM pid at TS level when m\_ulOutput-SID is INVALID\_SID\_VALUE.

Definition at line 5713 of file DCM.idl.

**8.72.5.1095 unsigned short DCM::DeviceControl::ComponentTrackRule\_t::m\_usPreferredOutput-Pid**

Definition at line 5800 of file DCM.idl.

**8.72.5.1096 unsigned short DCM::DeviceControl::ComponentTrackRule\_V2\_t::m\_usPreferred-OutputPid**

Definition at line 5812 of file DCM.idl.

**8.72.5.1097 unsigned short DCM::DeviceControl::DefaultTrackRule\_t::m\_usPreferredOutputPid**

Definition at line 5840 of file DCM.idl.

**8.72.5.1098 eDvbS2\_MA\_Type\_t DCM::DeviceControl::InPort\_DvbS2\_Status\_t::MA\_Type**

Coding and modulation type.

Definition at line 7565 of file DCM.idl.

**8.72.5.1099 string DCM::DeviceControl::ArpEntry\_t::MacAddr**

e.g. "00:00:c4:25:31:12"

Definition at line 18602 of file DCM.idl.

**8.72.5.1100 IPS\_Ref\_t DCM::DeviceControl::DescrCAM\_BackupCfg\_t::MainCAM**

reference of the main CAM

Definition at line 28634 of file DCM.idl.

**8.72.5.1101 string DCM::DeviceControl::SMX36\_VSEBackup\_t::MainEncoderIPAddress**

Management IP Address of the Main encoder.

Definition at line 24339 of file DCM.idl.

**8.72.5.1102 string DCM::DeviceControl::SMX36\_VSEBackup\_V2\_t::MainEncoderIPAddress**

Management IP Address of the Main encoder.

Definition at line 24351 of file DCM.idl.

**8.72.5.1103 unsigned long DCM::DCM\_Notifications::Messages::MainID**

Definition at line 32235 of file DCM.idl.

**8.72.5.1104 IPS\_Service\_In\_V2.t DCM::DeviceControl::IPS\_ServiceData\_Out\_V2\_t::MainInput-Service**

Read only : Reference to the main input service that was used to create the output service.

Definition at line 4946 of file DCM.idl.

**8.72.5.1105 IPS\_Service\_In\_V2.t DCM::DeviceControl::IPS\_ServiceData\_Out\_V3\_t::MainInput-Service**

Read only : Reference to the main input service that was used to create the output service.

Definition at line 4977 of file DCM.idl.

**8.72.5.1106 IPS\_Service\_In\_V2.t DCM::DeviceControl::TC\_ServiceData\_t::MainInputService**

Read only : Reference to the main input service that was used to create the service.

Definition at line 5015 of file DCM.idl.

**8.72.5.1107 IPS\_Service\_In\_V2.t DCM::DeviceControl::TC\_ServiceDataV2\_t::MainInputService**

Read only : Reference to the main input service that was used to create the service.

Definition at line 5605 of file DCM.idl.

**8.72.5.1108 IPS\_Service\_In\_V2.t DCM::DeviceControl::DescrServiceData\_t::MainInputService**

main input service

Definition at line 28096 of file DCM.idl.

**8.72.5.1109 unsigned short DCM::DeviceControl::DPI\_PidCouple\_t::MainPid**

Main Input PID value.

Definition at line 17118 of file DCM.idl.

**8.72.5.1110 unsigned short DCM::DeviceControl::ASI\_MirrorCfg\_t::MainPortNr**

Mirror source port from where content is routed.

Definition at line 6653 of file DCM.idl.



**8.72.5.1111 unsigned short DCM::DeviceControl::ASI\_DTF\_OutputTS\_Ex\_t::MainScrambling-KeyIndex**

Main index into the scrambling key list.

Definition at line 22050 of file DCM.idl.

**8.72.5.1112 eASI\_DTF\_ScramblingType DCM::DeviceControl::ASI\_DTF\_OutputTS\_Ex\_t::Main-ScramblingType**

Main scrambling type.

Definition at line 22052 of file DCM.idl.

**8.72.5.1113 AlternateSrcId\_t DCM::DeviceControl::AlternateSourceSettings\_t::MainSourceId**

the ID of the main source (this is initially the original source) (read-only)

Definition at line 17733 of file DCM.idl.

**8.72.5.1114 unsigned long DCM::DeviceControl::DeviceBackupParams\_t::MainToBackupDelay**

[Time](#) in seconds to wait before switching to backup device, range 1-60 s.

Definition at line 21151 of file DCM.idl.

**8.72.5.1115 unsigned long DCM::DeviceControl::DeviceBackupParamsV2\_t::MainToBackupDelay**

[Time](#) in seconds to wait before switching to backup device or deactivating, range 1-60 s.

Definition at line 21171 of file DCM.idl.

**8.72.5.1116 string DCM::DeviceControl::SMX36\_VSEBackup\_t::MainVideoStreamEncoderName**

future Name of the video stream on which the statmuxing is running.

Definition at line 24341 of file DCM.idl.

**8.72.5.1117 string DCM::DeviceControl::SMX36\_VSEBackup\_V2\_t::MainVideoStreamEncoder-Name**

future Name of the video stream on which the statmuxing is running.

Definition at line 24353 of file DCM.idl.

**8.72.5.1118 string DCM::DeviceControl::SMX36\_VSEBackup\_t::MainVSEName**

VSE Name of the main VSE (max length = 20).

Definition at line 24340 of file DCM.idl.

**8.72.5.1119 string DCM::DeviceControl::SMX36\_VSEBackup\_V2\_t::MainVSEName**

VSE Name of the main VSE (max length = 20).

Definition at line 24352 of file DCM.idl.

**8.72.5.1120 unsigned short DCM::DeviceControl::VCT\_Data\_t::MajorChannelNumber**

first part of channel number (10 bits)

Definition at line 9055 of file DCM.idl.

**8.72.5.1121 short DCM::DeviceControl::VersionParts::MajorNumber**

Definition at line 1264 of file DCM.idl.

**8.72.5.1122 MsgSeverity DCM::DeviceControl::MessageSetting::MajorSeverity**

will be used for the analog messages.

Definition at line 22450 of file DCM.idl.

**8.72.5.1123 unsigned long DCM::DeviceControl::SMX36\_AlgorithmIdentifier\_t::MajorVersion**

Major version part: the xx out of Vxx.yy.

Definition at line 23885 of file DCM.idl.

**8.72.5.1124 IPS\_Ref\_t DCM::DeviceControl::SMX\_Encoder\_t::Management**

Definition at line 23458 of file DCM.idl.

**8.72.5.1125 unsigned short DCM::DeviceControl::DescrCAM\_Status\_t::ManufactureCode**

manufacture code

Definition at line 28696 of file DCM.idl.

**8.72.5.1126 unsigned short DCM::DeviceControl::DescrCAM\_Status\_t::ManufacturerId**

manufacturer id

Definition at line 28695 of file DCM.idl.

**8.72.5.1127 eSpliceMatchRule DCM::DeviceControl::DPI\_PidCouple\_t::MatchingRule**

Matching rule.

Definition at line 17120 of file DCM.idl.

**8.72.5.1128 unsigned long DCM::DeviceControl::BitRateMeasurement\_t::MaxBitRate**

Definition at line 9784 of file DCM.idl.

**8.72.5.1129 unsigned long DCM::DeviceControl::TR\_BitrateLimits\_t::MaxBitrate**

Maximum bitrate in bps.

Definition at line 14973 of file DCM.idl.

**8.72.5.1130 unsigned long DCM::DeviceControl::SMX\_MFP\_SvcSettings\_t::MaxBitrate**

maximum allowed bitrate for this service In bits per second. Range: 3Mbps to 30Mbps REQUIREMENT: MaxBitrate has to be larger or equal MinBitrate REMARK: in RateLimit mode, the MaxBitrate indicates the rate limit. DEFAULT when service is added into a group: The Statmux Group bitrate or 12500000, whatever is the smallest.

Definition at line 16222 of file DCM.idl.

**8.72.5.1131 unsigned long DCM::DeviceControl::SMX\_MFP\_SvcSettings\_V2\_t::MaxBitrate**

see [SMX\\_MFP\\_SvcSettings\\_t](#)

Definition at line 16258 of file DCM.idl.

**8.72.5.1132 unsigned long DCM::DeviceControl::SMX\_Encoder\_t::MaxBitrate**

Definition at line 23464 of file DCM.idl.

**8.72.5.1133 unsigned long DCM::DeviceControl::SMX36\_VSEParams\_t::MaxBitrate**

(bps) Maximum bitrate. Range (200.000 -> 60.000.000)

Definition at line 24004 of file DCM.idl.

**8.72.5.1134 unsigned long DCM::DeviceControl::SMX36\_VSEParams\_V2\_t::MaxBitrate**

(bps) Maximum bitrate. Range (200.000 -> 60.000.000)

Definition at line 24015 of file DCM.idl.

**8.72.5.1135 unsigned short DCM::DeviceControl::DescrCAM\_Cfg\_t::MaxBitRate**

In Mbps. Range: 72 .. 200. Default: 72.

Definition at line 28514 of file DCM.idl.

**8.72.5.1136 unsigned short DCM::DeviceControl::DescrCAM\_Cfg\_V2\_t::MaxBitRate**

In Mbps. Range: 72 .. 200. Default: 72.

Definition at line 28540 of file DCM.idl.

**8.72.5.1137 unsigned short DCM::DeviceControl::MaximumLogoSize\_t::MaxLogoHeight**

Maximum logo width in pixels, 0 means unlimited.

Definition at line 13850 of file DCM.idl.

**8.72.5.1138 unsigned short DCM::DeviceControl::MaximumLogoSize\_t::MaxLogoWidth**

Definition at line 13849 of file DCM.idl.

**8.72.5.1139 unsigned short DCM::DeviceControl::MessageBufferInfo::MaxSeqNumber**

Maximum allowed sequence Numbers.

Definition at line 22365 of file DCM.idl.

**8.72.5.1140 unsigned long DCM::DeviceControl::DCG\_JP2K\_params\_t::MaxStreamBitRate**

Definition at line 31306 of file DCM.idl.

**8.72.5.1141 unsigned long DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t::MaxStreamBitRate**

Definition at line 31326 of file DCM.idl.

**8.72.5.1142 unsigned long DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t::MaxStreamBitRate**

Definition at line 31347 of file DCM.idl.

**8.72.5.1143 unsigned short DCM::DeviceControl::SMX36\_Pool\_t::MaxVSECapacity**

Maximum number of VSE's expected to be in the pool. range (1-24)

Definition at line 23790 of file DCM.idl.

**8.72.5.1144 unsigned short DCM::DeviceControl::SMX36\_Pool\_V2\_t::MaxVSECapacity**

Maximum number of VSE's expected to be in the pool. range (1-24)

Definition at line 23810 of file DCM.idl.

**8.72.5.1145 unsigned short DCM::DeviceControl::ASI\_SFN\_MKII\_RDCS\_Settings\_t::MDP\_DiscontinuityDetectionTimeout**

Range 10--1000 ms, in steps of 1.

Definition at line 29538 of file DCM.idl.

**8.72.5.1146 unsigned short DCM::DeviceControl::ASI\_SFN\_MKII\_RDCS\_Settings\_t::MDP\_ExtensionInterval**

Range 10--1000 ms, in steps of 1.

Definition at line 29537 of file DCM.idl.

**8.72.5.1147 unsigned short DCM::DeviceControl::ASI\_SFN\_MKII\_MDP\_MultiplicationSettings\_t::MDP\_MultiplicationDelay**

Range 1--100 ms, in steps of 1.

Definition at line 29531 of file DCM.idl.

**8.72.5.1148 unsigned short DCM::DeviceControl::ASI\_SFN\_MKII\_MDP\_MultiplicationSettings\_t::MDP\_MultiplicationFactor**

Range 1..4, in steps of 1.

Definition at line 29530 of file DCM.idl.

**8.72.5.1149 ASI\_SFN\_MKII\_MDP\_MultiplicationSettings\_t DCM::DeviceControl::ASI\_SFN\_MKII\_RDCS\_Settings\_t::MDP\_MultiplicationSettings**

Definition at line 29539 of file DCM.idl.

**8.72.5.1150 string DCM::DeviceControl::MM\_Message::MeasDetail**

Definition at line 22329 of file DCM.idl.

**8.72.5.1151 MeasureType DCM::DeviceControl::MM\_Message::MeasType**

Definition at line 22332 of file DCM.idl.

**8.72.5.1152 string DCM::DeviceControl::MM\_Message::MeasUnit**

Definition at line 22331 of file DCM.idl.

**8.72.5.1153 MM\_ID\_t DCM::DeviceControl::MM\_Measurement::MeasureID**

Definition at line 22576 of file DCM.idl.

**8.72.5.1154 MM\_ID\_t DCM::DeviceControl::MM\_MeasurementStat::MeasureID**

Definition at line 22631 of file DCM.idl.

**8.72.5.1155 unsigned short DCM::DeviceControl::MM\_TypeInfo::MeasureTypeID**

Definition at line 22600 of file DCM.idl.

**8.72.5.1156 unsigned short DCM::DeviceControl::MM\_TypeInfo\_V2::MeasureTypeID**

Definition at line 22617 of file DCM.idl.

**8.72.5.1157 MeasureValidity DCM::DeviceControl::MM\_Message::MeasValidity**

Definition at line 22333 of file DCM.idl.

**8.72.5.1158 double DCM::DeviceControl::MM\_Message::MeasValue**

Definition at line 22330 of file DCM.idl.

**8.72.5.1159 NicTeam\_MemberList\_t DCM::DeviceControl::NicTeam\_Settings::MemberList**

Definition at line 2192 of file DCM.idl.

**8.72.5.1160 NicTeam\_MemberStatusList\_t DCM::DeviceControl::NicTeamStatus::MemberStatusList**

Definition at line 2221 of file DCM.idl.

**8.72.5.1161 unsigned long DCM::DeviceControl::InPort\_8VSB\_Statistics\_t::MER**

Modulation Error Ratio in dB.

Definition at line 7120 of file DCM.idl.

**8.72.5.1162 unsigned long DCM::DeviceControl::InPort\_8VSB\_Config\_t::MER\_Threshold**

in dB. Valid range is 15 to 35.

Definition at line 7103 of file DCM.idl.

**8.72.5.1163 MergeCriteriumList\_t DCM::DeviceControl::ComponentMergeCriterium\_t::Merge-CriteriumList**

For the set call this is the new complete list of merge criteria for an input service.

Definition at line 5071 of file DCM.idl.

**8.72.5.1164 IPS\_RefPidList\_t DCM::DeviceControl::MergeCriterium\_t::MergedComponents**

a list of [IPS\\_RefPid\\_t](#)'s of components merged in by this TrackingCriterium

Definition at line 5062 of file DCM.idl.

**8.72.5.1165 IPS\_RefPid\_t DCM::DeviceControl::MergedESDescriptorData\_t::MergedES\_InputPid**

Definition at line 8028 of file DCM.idl.

**8.72.5.1166 IPS\_MergedInServiceList\_t DCM::DeviceControl::AltSrcMergedSetting\_t::MergedInServiceList**

Definition at line 5267 of file DCM.idl.

**8.72.5.1167 IPS\_Service.t DCM::DeviceControl::AltSrcMergeActiveInSvc\_t::MergeService**

The Merge Svc on which the Backup Svc is located.

Definition at line 23249 of file DCM.idl.

**8.72.5.1168 IPS\_Service.t DCM::DeviceControl::BackupSrvTable\_t::MergeSvcSource**

specifies BoardNr, PortNr, TS and input SID of merged service < (main or merged in service)

Definition at line 23055 of file DCM.idl.

**8.72.5.1169 string DCM::DeviceControl::RoutingStatusRecord\_t::Message**

Text description of the error.

Definition at line 2803 of file DCM.idl.

**8.72.5.1170 eMessage DCM::DeviceControl::MM\_MessageTypeErrorInterval::Message**

message type to set interval for

Definition at line 22848 of file DCM.idl.

**8.72.5.1171 MM\_MessageMainPart DCM::DeviceControl::MM\_Message::MessageMain**

Definition at line 22328 of file DCM.idl.

**8.72.5.1172 unsigned long DCM::DeviceControl::MM\_Message::MessageNbr**

Definition at line 22334 of file DCM.idl.

**8.72.5.1173 unsigned long DCM::DCM\_Notifications::Messages::MessageNumber**

Definition at line 32241 of file DCM.idl.

**8.72.5.1174 MFPB\_MetaDataCfgList.t DCM::DeviceControl::MFPB\_ServiceMetaDataCfg\_t::MetaDataCfgL**

Definition at line 12778 of file DCM.idl.

**8.72.5.1175 unsigned long DCM::DeviceControl::MFPB\_EngineUnitCfg\_t::MFPBEngineUnitProperty**

Read only Bitmap.

- Bit 0: TRUE if the unit is processing video.
- Bit 1: TRUE if the unit is processing audio.

Definition at line 10388 of file DCM.idl.

**8.72.5.1176 unsigned long DCM::DeviceControl::BitRateMeasurement\_t::MinBitRate**

Definition at line 9783 of file DCM.idl.

**8.72.5.1177 unsigned long DCM::DeviceControl::TR\_BitrateLimits\_t::MinBitrate**

Minimum bitrate in bps.

Definition at line 14972 of file DCM.idl.

**8.72.5.1178 unsigned long DCM::DeviceControl::SMX\_MFP\_SvcSettings\_t::MinBitrate**

minimum allowed bitrate for this service In bits per second. Range: 500Kbps to 8Mbps REQUIREMENT: MinBitrate has to be lower or equal MaxBitrate Ignored in RateLimit mode DEFAULT when service is added into a group: 1000000

Definition at line 16228 of file DCM.idl.

**8.72.5.1179 unsigned long DCM::DeviceControl::SMX\_MFP\_SvcSettings\_V2\_t::MinBitrate**

see [SMX\\_MFP\\_SvcSettings\\_t](#)

Definition at line 16259 of file DCM.idl.

**8.72.5.1180 unsigned long DCM::DeviceControl::SMX\_Encoder\_t::MinBitrate**

Definition at line 23463 of file DCM.idl.

**8.72.5.1181 unsigned long DCM::DeviceControl::SMX36\_VSEParams\_t::MinBitrate**

(bps) Minimum bitrate. Range (200.000 -> 60.000.000)

Definition at line 24003 of file DCM.idl.

**8.72.5.1182 unsigned long DCM::DeviceControl::SMX36\_VSEParams\_V2\_t::MinBitrate**

(bps) Minimum bitrate. Range (200.000 -> 60.000.000)

Definition at line 24014 of file DCM.idl.

**8.72.5.1183 unsigned short DCM::DeviceControl::VCT\_Data\_t::MinorChannelNumber**

second part of channel number (10 bits)

Definition at line 9056 of file DCM.idl.

**8.72.5.1184 short DCM::DeviceControl::VersionParts::MinorNumber**

Definition at line 1265 of file DCM.idl.

**8.72.5.1185 MsgSeverity DCM::DeviceControl::MessageSetting::MinorSeverity**

will be used for the analog messages.

Definition at line 22449 of file DCM.idl.

**8.72.5.1186 unsigned long DCM::DeviceControl::SMX36\_AlgorithmIdentifier\_t::MinorVersion**

Minor version part: the yy out of Vxx.yy.

Definition at line 23886 of file DCM.idl.

**8.72.5.1187 short DCM::DeviceControl::SMX36\_VSEParams\_t::MinQ**

(Future) Minimum quality.

Definition at line 24007 of file DCM.idl.

**8.72.5.1188 short DCM::DeviceControl::SMX36\_VSEParams\_V2\_t::MinQ**

(Future) Minimum quality.

Definition at line 24018 of file DCM.idl.

**8.72.5.1189 octet DCM::DeviceControl::Time::Minute**

From 0 to 59.

Definition at line 463 of file DCM.idl.

**8.72.5.1190 unsigned short DCM::DeviceControl::ASI\_MirrorCfg\_t::MirrorPortNr**

Output port to where the data is mirrored.

Definition at line 6652 of file DCM.idl.

**8.72.5.1191 unsigned long long DCM::DeviceControl::FEC\_Dec\_Statistics\_t::MissingPacketCount**

Definition at line 19157 of file DCM.idl.

**8.72.5.1192 unsigned long DCM::DeviceControl::PCTM\_ThresholdValues\_t::MissingPackets\_-  
AfterErrorCorrection**

Definition at line 20280 of file DCM.idl.

**8.72.5.1193 unsigned long long DCM::DeviceControl::PCTM\_PacketCounters\_t::MissingPackets\_-  
AfterErrorCorrection**

Definition at line 20308 of file DCM.idl.

**8.72.5.1194 unsigned long DCM::DeviceControl::PCTM\_ThresholdValues\_t::MissingPackets\_-  
BeforeErrorCorrection**

Definition at line 20279 of file DCM.idl.

**8.72.5.1195 unsigned long long DCM::DeviceControl::PCTM\_PacketCounters\_t::MissingPackets\_-  
BeforeErrorCorrection\_Backup**

Definition at line 20306 of file DCM.idl.

**8.72.5.1196 unsigned long long DCM::DeviceControl::PCTM\_PacketCounters\_t::MissingPackets\_-  
BeforeErrorCorrection\_Main**

Definition at line 20305 of file DCM.idl.

**8.72.5.1197 unsigned short DCM::DeviceControl::MM\_ID\_t::MM\_TypeID**

input/output + type of message or measurement

Definition at line 433 of file DCM.idl.



**8.72.5.1198 eNicTeamMode DCM::DeviceControl::NicTeam\_Settings::Mode**

Definition at line 2191 of file DCM.idl.

**8.72.5.1199 ePIDPassingStatus DCM::DeviceControl::SI\_Table\_GenerationMode\_t::Mode**

Definition at line 2739 of file DCM.idl.

**8.72.5.1200 eTimeBaseSelectionMode DCM::DeviceControl::TimeBaseSelectionMode\_t::Mode**

Definition at line 2947 of file DCM.idl.

**8.72.5.1201 eTimeBaseSelectionMode\_V2 DCM::DeviceControl::TimeBaseSelectionMode\_V2\_t::Mode**

Definition at line 2987 of file DCM.idl.

**8.72.5.1202 ePriorityBitMode DCM::DeviceControl::PriorityBitMode\_t::Mode**

Definition at line 4343 of file DCM.idl.

**8.72.5.1203 eDvbS2\_Mode\_t DCM::DeviceControl::InPort\_DvbS2\_TunerCfg\_t::Mode**

auto, DVB-S, DVB-S2

Definition at line 7431 of file DCM.idl.

**8.72.5.1204 eCompactCaMode DCM::DeviceControl::CompactCaMode\_t::Mode**

Definition at line 8109 of file DCM.idl.

**8.72.5.1205 octet DCM::DeviceControl::MultipleStringSegment\_t::Mode**

Definition at line 8830 of file DCM.idl.

**8.72.5.1206 eTR\_ServiceMode DCM::DeviceControl::TR\_ServiceSettings\_t::Mode**

The transrater mode for the service.

Definition at line 15012 of file DCM.idl.

**8.72.5.1207 eTR\_ServiceMode DCM::DeviceControl::TR\_ServiceSettings\_V2\_t::Mode**

The transrater mode for the service.

Definition at line 15457 of file DCM.idl.

**8.72.5.1208 eSMX\_MFP\_SvcMode DCM::DeviceControl::SMX\_MFP\_SvcSettings\_t::Mode**

to be statmuxed or used in rate limited mode. Rate Limited mode can only be set on a SPTS service in a MultiTS group. DEFAULT when service is added into a group: RateLimit mode for a MulitTS group. Statmux mode for all other group types.

Definition at line 16217 of file DCM.idl.

**8.72.5.1209 eSMX\_MFP\_SvcMode DCM::DeviceControl::SMX\_MFP\_SvcSettings\_V2\_t::Mode**

see [SMX\\_MFP\\_SvcSettings\\_t](#)

Definition at line 16256 of file DCM.idl.

**8.72.5.1210 eDPI\_Mode DCM::DeviceControl::DPI\_ChannelSettings\_t::Mode**

Definition at line 17021 of file DCM.idl.

**8.72.5.1211 eDPI\_Mode DCM::DeviceControl::DPI\_ChannelSettings2\_t::Mode**

Definition at line 17035 of file DCM.idl.

**8.72.5.1212 eFECDecMode DCM::DeviceControl::FEC\_Dec\_Setting\_t::Mode**

Definition at line 19121 of file DCM.idl.

**8.72.5.1213 eFECDecMode DCM::DeviceControl::InTS\_FEC\_Dec\_DefRuleSetting\_t::Mode**

Definition at line 19147 of file DCM.idl.

**8.72.5.1214 eFECEncMode DCM::DeviceControl::FEC\_Enc\_Setting\_t::Mode**

default value is FEC disabled

Definition at line 19368 of file DCM.idl.

**8.72.5.1215 eFECEncMode DCM::DeviceControl::FEC\_Enc\_Setting\_V2\_t::Mode**

default value is FEC disabled

Definition at line 19391 of file DCM.idl.

**8.72.5.1216 eFECEncMode DCM::DeviceControl::OutTS\_FEC\_Enc\_DefSetting\_t::Mode**

default value is FEC disabled

Definition at line 19412 of file DCM.idl.

**8.72.5.1217 eFECErrorMode DCM::DeviceControl::FEC\_Enc\_ErrorGen\_t::Mode**

Definition at line 19438 of file DCM.idl.

**8.72.5.1218 enHitlessMergeMode\_t DCM::DeviceControl::HitlessMergeSetting\_t::Mode**

Definition at line 19674 of file DCM.idl.

**8.72.5.1219 StatMuxMode DCM::DeviceControl::SMX\_StatMuxPool::Mode**

Definition at line 23371 of file DCM.idl.

**8.72.5.1220 StatMuxMode DCM::DeviceControl::SMX\_StatMuxPool\_V2::Mode**

Definition at line 23389 of file DCM.idl.

**8.72.5.1221 eSDI\_GeneratorMode\_t DCM::DeviceControl::DCG\_GeneratorConfig\_t::Mode**

Definition at line 30736 of file DCM.idl.

**8.72.5.1222 DPI\_ModeBitmap\_t DCM::DeviceControl::DPI\_ChannelSettings3\_t::Modes**

Modes bitmap allowing combined DPI modes.

Definition at line 17055 of file DCM.idl.

**8.72.5.1223 eVctModulation DCM::DeviceControl::VCT\_Data\_t::ModulationMode**

see eVctModulation, defaults: if modulation is not according to table

Definition at line 9057 of file DCM.idl.

**8.72.5.1224 unsigned long DCM::DeviceControl::ModuleExceptionTrace\_t::ModuleId**

Definition at line 1490 of file DCM.idl.

**8.72.5.1225 string DCM::DeviceControl::ModuleExceptionTrace\_t::ModuleName**

Definition at line 1491 of file DCM.idl.

**8.72.5.1226 octet DCM::DeviceControl::Time::Month**

From 1 to 12.

Definition at line 459 of file DCM.idl.

**8.72.5.1227 unsigned short DCM::DeviceControl::MessageBufferInfo::MostRecentSeqNumber**

Most Recent Message in the Buffer.

Definition at line 22364 of file DCM.idl.

**8.72.5.1228 enMotionMode DCM::DeviceControl::Scte35Data\_Keyer\_config\_t::Motion\_mode**

Definition at line 8661 of file DCM.idl.

**8.72.5.1229 MFPB\_MPEGL2\_AudioSettingsList\_t DCM::DeviceControl::MFPB\_MPEGL2AudioCfg\_t::MPEGL2\_AudioSettingsList**

MPEG1-L2 Audio settings per ES.

Definition at line 11874 of file DCM.idl.

**8.72.5.1230 MM\_ID\_t DCM::DeviceControl::MM\_MessageMainPart::MsgID**

unique ID identifying the sort of message

Definition at line 22310 of file DCM.idl.

**8.72.5.1231 MM\_ID\_t DCM::DeviceControl::MM\_MessageSetting::MsgID**

Definition at line 22466 of file DCM.idl.

**8.72.5.1232 MessageSetting DCM::DeviceControl::MM\_MessageTypeSetting::MsgSetting**

Definition at line 22460 of file DCM.idl.

**8.72.5.1233 MessageSetting DCM::DeviceControl::MM\_MessageSetting::MsgSetting**

Definition at line 22467 of file DCM.idl.

**8.72.5.1234 unsigned short DCM::DeviceControl::MM\_MessageTypeSetting::MsgTypeID**

Definition at line 22459 of file DCM.idl.

**8.72.5.1235 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Multicast**

Multicast frames.

Definition at line 19858 of file DCM.idl.

**8.72.5.1236 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::Multicast**

Multicast frames.

Definition at line 19878 of file DCM.idl.

**8.72.5.1237 string DCM::DeviceControl::IGMPv2MulticastGroup\_t::MulticastGroup**

Definition at line 20009 of file DCM.idl.

**8.72.5.1238 string DCM::DeviceControl::IGMPv3Group\_t::MulticastGroup**

Definition at line 20127 of file DCM.idl.

**8.72.5.1239 string DCM::DeviceControl::SMX\_StatMuxPool\_V2::multicastIP**

Definition at line 23393 of file DCM.idl.

**8.72.5.1240 string DCM::DeviceControl::SMX36\_Community\_t::MulticastIPAddress**

The Community multicast IP used by units to join the statmux community.

Definition at line 23674 of file DCM.idl.

**8.72.5.1241 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::MultiCollision**

Multiple collisions.

Definition at line 19893 of file DCM.idl.

**8.72.5.1242 string DCM::DeviceControl::NotifData\_t::Name**

Definition at line 957 of file DCM.idl.

**8.72.5.1243 string DCM::DeviceControl::ComponentTemperature\_t::Name**

Possible values: "FEC Die" (I/O board, DaughterBoard 2) "FEC Ambient" (I/O board, DaughterBoard 2) "Ambient 1" (Main board, DaughterBoard 0) "Ambient 2" (Main board, DaughterBoard 0)

Definition at line 1937 of file DCM.idl.

**8.72.5.1244 DvbString.t DCM::DeviceControl::IPS\_Service\_In\_V2\_t::Name**

Read only: The name of the service.

Definition at line 4919 of file DCM.idl.

**8.72.5.1245 string DCM::DeviceControl::RMX\_GroupSettings\_t::Name**

Name: writable, the same name may be used multiple times, it exists only for user ref. Not used internally by the [DCM](#). Name length limited to 32 characters.

Definition at line 15637 of file DCM.idl.

**8.72.5.1246 string DCM::DeviceControl::SMX\_MFP\_GroupSettings\_t::Name**

Name: writable, the same name may be used multiple times, it exists only for user ref. not used internally by the [DCM](#). Name length limited to 32 characters.

Definition at line 16155 of file DCM.idl.

**8.72.5.1247 string DCM::DeviceControl::Feature\_t::Name**

Max string length 36.

Definition at line 20538 of file DCM.idl.

**8.72.5.1248 string DCM::DeviceControl::MM\_TypeInfo::Name**

Definition at line 22601 of file DCM.idl.

**8.72.5.1249 string DCM::DeviceControl::MM\_TypeInfo\_V2::Name**

Definition at line 22618 of file DCM.idl.

**8.72.5.1250 string DCM::DeviceControl::SMX\_StatMuxPool::Name**

Definition at line 23369 of file DCM.idl.

**8.72.5.1251 string DCM::DeviceControl::SMX\_StatMuxPool\_V2::Name**

Definition at line 23387 of file DCM.idl.

**8.72.5.1252 string DCM::DeviceControl::SMX36\_Community\_t::Name**

Name of the statmux community MAX string length = 20.

Definition at line 23673 of file DCM.idl.

**8.72.5.1253 string DCM::DeviceControl::SMX36\_Pool\_t::Name**

Name of pool. MAX string length = 20.

Definition at line 23783 of file DCM.idl.

**8.72.5.1254 string DCM::DeviceControl::SMX36\_Pool\_V2\_t::Name**

Name of pool. MAX string length = 20.

Definition at line 23803 of file DCM.idl.

**8.72.5.1255 string DCM::DeviceControl::AC\_t::Name**

name of AC (extension to Simulcrypt protocol)

Definition at line 27634 of file DCM.idl.

**8.72.5.1256 string DCM::DeviceControl::DescrResource\_t::Name**

user friendly name of the descrambling resource. Default names are assigned by the [DCM](#), e.g. 'CAM 1', 'BISS'.

Definition at line 28032 of file DCM.idl.

**8.72.5.1257 string DCM::DeviceControl::EasConfig\_t::Name**

a user friendly name identifying the proxy. Names must be unique. Upper/lower case and white space are ignored in the uniqueness check.

Definition at line 28991 of file DCM.idl.

**8.72.5.1258 string DCM::DeviceControl::GPI\_Settings\_t::Name**

name of the gpi pin indicating the function

Definition at line 31577 of file DCM.idl.

**8.72.5.1259 unsigned short DCM::DeviceControl::VideoSignalInfo\_t::NbrOfAudios**

Definition at line 30203 of file DCM.idl.

**8.72.5.1260 unsigned long DCM::DeviceControl::VideoSignalInfo\_t::NbrOfLinesPerFrame**

Definition at line 30207 of file DCM.idl.

**8.72.5.1261 unsigned long DCM::DeviceControl::MM\_MeasurementStat::NbrOfOpenStates**

Definition at line 22632 of file DCM.idl.

**8.72.5.1262 unsigned short DCM::DeviceControl::Svc\_PsipEitRegenerationInfo\_t::NbrOfTables**

Definition at line 9483 of file DCM.idl.

**8.72.5.1263 unsigned short DCM::DeviceControl::Svc\_PsipEttRegenerationInfo\_t::NbrOfTables**

Definition at line 9495 of file DCM.idl.

**8.72.5.1264 enNetworkFeedActiveIndicator DCM::DeviceControl::Scte35Data\_Network\_active\_t::Network\_active\_indicator**

Definition at line 8639 of file DCM.idl.

**8.72.5.1265 IPS\_Ref\_t DCM::DeviceControl::DeviceBackupLink\_t::NetworkInterface**

Specify BoardNr = 0 and PortNr = 0 for the 10/100 management network interface and PortNr = 1 for the GbE C/A network interface.

Definition at line 21121 of file DCM.idl.

**8.72.5.1266 IPS\_Ref\_t DCM::DeviceControl::DeviceBackupParams\_t::NetworkInterface**

Specify BoardNr = 0 and PortNr = 0 for the 10/100 management network interface and PortNr = 1 for the GbE C/A network interface.

Definition at line 21144 of file DCM.idl.

**8.72.5.1267 IPS\_Ref\_t DCM::DeviceControl::EasConfig\_t::NetworkInterface**

Specify BoardNr = 0 and PortNr = 0 for the 10/100 management network interface and PortNr = 1 for the GbE CA network interface.

Definition at line 28986 of file DCM.idl.

**8.72.5.1268 unsigned long DCM::DCM\_Notifications::DCM\_TsIdOnIdChange::NewOnId**

Definition at line 32263 of file DCM.idl.

**8.72.5.1269 unsigned long DCM::DCM\_Notifications::Output\_TS\_Change::NewOnId**

Definition at line 32277 of file DCM.idl.

**8.72.5.1270 ServiceId\_t DCM::DeviceControl::IPS\_ServiceData\_Out\_V2\_t::NewOutputSID**

Requested Service ID for an outgoing service.

- Legal values are 1..65535

Definition at line 4927 of file DCM.idl.

**8.72.5.1271 ServiceId\_t DCM::DeviceControl::IPS\_ServiceData\_Out\_V3\_t::NewOutputSID**

Requested Service ID for an outgoing service.

- Legal values are 1..65535

Definition at line 4958 of file DCM.idl.

**8.72.5.1272 unsigned short DCM::DeviceControl::IPS\_Out\_PIDSettings\_t::NewPID**

New output PID value: 0xFFFF means unassigned.

Definition at line 5888 of file DCM.idl.

**8.72.5.1273 unsigned long DCM::DCM\_Notifications::DCM\_TsIdOnIdChange::NewTsId**

Definition at line 32265 of file DCM.idl.

**8.72.5.1274 unsigned long DCM::DCM\_Notifications::Output\_TS\_Change::NewTsId**

Definition at line 32279 of file DCM.idl.

**8.72.5.1275 unsigned long DCM::DeviceControl::DPI\_ShortChannelStatus\_t::NextSplice**

Definition at line 17014 of file DCM.idl.

**8.72.5.1276 eNitInPat DCM::DeviceControl::OutTS\_NitInPat\_t::NitInPat**

Definition at line 4009 of file DCM.idl.

**8.72.5.1277 unsigned short DCM::DeviceControl::RipSettings\_t::NormalMetric**

RIP metric to be advertised when TS is streaming and in good shape. Range [1,16], default 1.

Definition at line 31927 of file DCM.idl.

**8.72.5.1278 unsigned short DCM::DeviceControl::FEC\_Enc\_ErrorGen\_t::NrErrorPackets**

number of error packets (IPGW: range 1..512)

Definition at line 19440 of file DCM.idl.

**8.72.5.1279 unsigned short DCM::DeviceControl::FEC\_Enc\_ErrorGen\_t::NrGoodPackets**

number of good packets (IPGW: range 1..65535)

Definition at line 19439 of file DCM.idl.

**8.72.5.1280 boolean DCM::DeviceControl::SMX36\_Pool\_V2\_t::NtpSyncRequired**

RW If True, then if [DCM](#) NTP Sync Alarm is set, put all VSE members to default rate.

Definition at line 23814 of file DCM.idl.

**8.72.5.1281 unsigned short DCM::DeviceControl::GPI\_Settings\_t::Number**

gpi pin number (1 to 5)

Definition at line 31576 of file DCM.idl.

**8.72.5.1282 unsigned short DCM::DeviceControl::GPI\_StatusControl\_t::Number**

gpi pin number

Definition at line 31588 of file DCM.idl.

**8.72.5.1283 unsigned long DCM::DeviceControl::IPS\_InputTS\_t::NumberOfServices**

Number of services present on this input TS.

Definition at line 2353 of file DCM.idl.

**8.72.5.1284 unsigned long DCM::DeviceControl::IPS\_OutputTS\_t::NumberOfServices**

Number of services present on this output TS.

Definition at line 2472 of file DCM.idl.

**8.72.5.1285 unsigned long DCM::DeviceControl::IPS\_OutputTS\_V2\_t::NumberOfServices**

Number of services present on this output TS.

Definition at line 2512 of file DCM.idl.

**8.72.5.1286 octet DCM::DeviceControl::TrackingCriterium\_t::oComponentTag**

Definition at line 5050 of file DCM.idl.

**8.72.5.1287 string DCM::DeviceControl::ASI\_DTF\_ScramblingKey\_t::OddKey**

Hex encoded scrambling key for use with odd scrambling, a valid key is exactly 12 characters long.

Definition at line 22080 of file DCM.idl.

**8.72.5.1288 ByteStream DCM::DeviceControl::ASI\_DTF\_ScramblingKeyPair\_t::OddScrambling-Key**

Scrambling key for use with odd scrambling, should be exactly 6 bytes long.

Definition at line 22067 of file DCM.idl.



**8.72.5.1289 ByteStream DCM::DeviceControl::DescrTrackingRule\_t::OddSessionWord**

session word for BISS descrambling with odd parity.

Definition at line 28421 of file DCM.idl.

**8.72.5.1290 ByteStream DCM::DeviceControl::DescrSvcConfig\_t::OddSessionWord**

session word for BISS with odd parity.

Definition at line 28450 of file DCM.idl.

**8.72.5.1291 ByteStream DCM::DeviceControl::DescrBISS\_Cfg\_t::OddSessionWord**

session word for BISS descrambling with odd parity.

Definition at line 28773 of file DCM.idl.

**8.72.5.1292 double DCM::DeviceControl::NTP\_Stats\_t::Offset**

Indicates the offset of the peer clock relative to the local clock, in seconds.

Definition at line 700 of file DCM.idl.

**8.72.5.1293 short DCM::DeviceControl::Table\_Sync\_Info\_t::Offset**

value in ms that is added to the T\*T time before applying it to the system clock. < Can be a negative value!  
Value in seconds (steps of 1000ms) to correct GPS < time to UTC time. Not supported for the moment and always reset to 0.

Definition at line 739 of file DCM.idl.

**8.72.5.1294 unsigned short DCM::DeviceControl::MessageBufferInfo::OldestSeqNumber**

Oldest Message in the Buffer.

Definition at line 22363 of file DCM.idl.

**8.72.5.1295 unsigned long DCM::DCM\_Notifications::DCM\_TsIdOnIdChange::OldOnId**

Definition at line 32262 of file DCM.idl.

**8.72.5.1296 unsigned long DCM::DCM\_Notifications::Output\_TS\_Change::OldOnId**

Definition at line 32276 of file DCM.idl.

**8.72.5.1297 long DCM::DeviceControl::ServiceES\_t::OldPID**

Definition at line 5868 of file DCM.idl.

**8.72.5.1298 unsigned short DCM::DeviceControl::IPS\_Out\_PIDSettings\_t::OldPID**

Value of the PID at the input TS.

Definition at line 5887 of file DCM.idl.

**8.72.5.1299 unsigned long DCM::DCM\_Notifications::DCM\_TsIdOnIdChange::OldTsId**

Definition at line 32264 of file DCM.idl.

**8.72.5.1300 unsigned long DCM::DCM\_Notifications::Output\_TS\_Change::OldTsId**

Definition at line 32278 of file DCM.idl.

**8.72.5.1301 unsigned long DCM::DeviceControl::IPS\_InputTS\_t::ONID**

ONID range: [0..65535].

Definition at line 2352 of file DCM.idl.

**8.72.5.1302 unsigned long DCM::DeviceControl::IPS\_OutputTS\_t::ONID**

ONID range: 0..65535.

Definition at line 2471 of file DCM.idl.

**8.72.5.1303 unsigned long DCM::DeviceControl::IPS\_OutputTS\_V2\_t::ONID**

ONID range: 0..65535.

Definition at line 2511 of file DCM.idl.

**8.72.5.1304 unsigned long DCM::DeviceControl::TableKeys\_t::OnId**

Set to 0xFFFFFFFF when not used.

Definition at line 2753 of file DCM.idl.

**8.72.5.1305 unsigned long DCM::DeviceControl::PSIGSubTable\_t::OnId**

As in PSIG channel setup.

Definition at line 8340 of file DCM.idl.

**8.72.5.1306 unsigned long DCM::DeviceControl::IIOP\_SubTable\_t::OnId**

original network ID of targeted output TS.

Definition at line 8393 of file DCM.idl.

**8.72.5.1307 unsigned long DCM::DCM\_Notifications::Output\_TS\_Delete::OnId**

Definition at line 32290 of file DCM.idl.

**8.72.5.1308 unsigned short DCM::DeviceControl::Scte35Data\_Keyer\_config\_t::Opacity**

Definition at line 8667 of file DCM.idl.

**8.72.5.1309 unsigned short DCM::DeviceControl::LogoCfg\_t::Opacity**

10 \* opacity in % and in steps of .5 % (e.g. Opacity = 105 means 10.5 %), < 100% opaque means not transparent at all.

Definition at line 13816 of file DCM.idl.

**8.72.5.1310 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Opcode\_Bad**

Invalid Opcode.

Definition at line 19871 of file DCM.idl.

**8.72.5.1311 eRestoreOption DCM::DeviceControl::RestoreOption::Option**

Which option.

Definition at line 21478 of file DCM.idl.

**8.72.5.1312 eRestoreOption\_V2 DCM::DeviceControl::RestoreOption\_V2::Option**

Which option.

Definition at line 21690 of file DCM.idl.

**8.72.5.1313 string DCM::DeviceControl::BoardIdentification::OrderNumber**

Definition at line 1284 of file DCM.idl.

**8.72.5.1314 unsigned long DCM::DeviceControl::ETV\_ApplicationIdent\_t::OrgId**

Definition at line 17342 of file DCM.idl.

**8.72.5.1315 octet DCM::DeviceControl::TrackingCriterium\_t::oStreamType**

Definition at line 5051 of file DCM.idl.

**8.72.5.1316 AlternateSrcId\_t DCM::DeviceControl::Scte35Source\_t::OtherSrcId**

the ID of this alternate source, < if Scte35Source == other

Definition at line 17821 of file DCM.idl.

**8.72.5.1317 IPS\_UDP\_Socket\_t DCM::DeviceControl::HitlessMergeSetting\_t::OtherUDP\_Socket**

this is only valid when Mode is eHitlessMergeMode\_EnabledOtherUDP\_Socket

Definition at line 19675 of file DCM.idl.

**8.72.5.1318 octet DCM::DeviceControl::IPS\_Out\_ESSettings\_V2\_t::OutES\_Type**

dvb streamtype of the output TS.

Definition at line 5951 of file DCM.idl.

**8.72.5.1319 TableKeys\_t DCM::DeviceControl::TableGenerationData\_t::OutKeys**

Keys to locate the output table.

Definition at line 6027 of file DCM.idl.

**8.72.5.1320 TableKeys\_t DCM::DeviceControl::TableGenerationData\_V2\_t::OutKeys**

Keys to locate the output table.

Definition at line 6049 of file DCM.idl.

**8.72.5.1321 eTriBool DCM::DeviceControl::VCT\_Data\_t::OutOfBand**

(CVCT only) true: out of band physical transmission

Definition at line 9062 of file DCM.idl.

**8.72.5.1322 unsigned long long DCM::DeviceControl::FEC\_Dec\_Statistics\_t::OutOfRangePacketCount**

Definition at line 19161 of file DCM.idl.

**8.72.5.1323 unsigned long DCM::DeviceControl::PCTM\_ThresholdValues\_t::OutOfRangePackets**

Definition at line 20282 of file DCM.idl.

**8.72.5.1324 unsigned long long DCM::DeviceControl::PCTM\_PacketCounters\_t::OutOfRangePackets**

Definition at line 20312 of file DCM.idl.

**8.72.5.1325 unsigned short DCM::DeviceControl::TableGenerationData\_t::OutPid**

Pid on which the output table should be played out PMT Pid range: 0x0020 .

. 0x1FFE PAT-SDT Pid range: 0x0000 .. 0x1FFE

Definition at line 6028 of file DCM.idl.

**8.72.5.1326 unsigned short DCM::DeviceControl::TableGenerationData\_V2\_t::OutPid**

Pid on which the output table should be played out PMT Pid range: 0x0020 .

. 0x1FFE PAT-SDT Pid range: 0x0000 .. 0x1FFE

Definition at line 6050 of file DCM.idl.

**8.72.5.1327 unsigned long DCM::DeviceControl::TR\_DelayMode\_t::OutputDelay**

Customized setting of the delay reserved for the output buffer embedded in the transrater board (modifying this setting can result in worst video quality)

Definition at line 14956 of file DCM.idl.

**8.72.5.1328 unsigned long DCM::DeviceControl::TR\_DelayMode\_V2\_t::OutputDelay**

Customized setting of the delay reserved for the output buffer embedded in the transrater board (modifying this setting can result in worst video quality)

Definition at line 14966 of file DCM.idl.

**8.72.5.1329 eAsiOutputMode DCM::DeviceControl::AsiFormatData\_t::OutputMode**

Definition at line 6641 of file DCM.idl.

**8.72.5.1330 ASI\_DTF\_List\_t DCM::DeviceControl::ASI\_DTF\_OutputTS\_t::OutputMux**

List of input settings.

Definition at line 22037 of file DCM.idl.

**8.72.5.1331 ASI\_DTF\_ListEx\_t DCM::DeviceControl::ASI\_DTF\_OutputTS\_Ex\_t::OutputMux**

List of input settings.

Definition at line 22053 of file DCM.idl.

**8.72.5.1332 unsigned short DCM::DeviceControl::IPS\_OutPID\_Data\_t::OutputPID**

Definition at line 2561 of file DCM.idl.

**8.72.5.1333 unsigned short DCM::DeviceControl::IPS\_OutPID\_Data2\_t::OutputPID**

Definition at line 2582 of file DCM.idl.

**8.72.5.1334 unsigned short DCM::DeviceControl::SI\_AutoPassRules\_t::OutputPid**

PID on which to play out autopassed tables.

Definition at line 2906 of file DCM.idl.

**8.72.5.1335 unsigned short DCM::DeviceControl::ES\_TypeSetting\_t::OutputPid**

Definition at line 5849 of file DCM.idl.

**8.72.5.1336 unsigned short DCM::DeviceControl::ASI\_DTF\_t::OutputPID**

Ghost PID for encapsulating this input stream.

Definition at line 21987 of file DCM.idl.

**8.72.5.1337 unsigned short DCM::DeviceControl::ASI\_DTF\_Ex\_t::OutputPID**

Ghost PID for encapsulating this input stream.

Definition at line 22005 of file DCM.idl.

**8.72.5.1338 PID\_List\_t DCM::DeviceControl::IPS\_OutPID\_Sync\_t::OutputPIDs**

The pids to be synchronized.

Definition at line 16678 of file DCM.idl.

**8.72.5.1339 PID\_List\_t DCM::DeviceControl::IPS\_OutPID\_Sync\_V2\_t::OutputPIDs**

The pids to be synchronized.

Definition at line 16694 of file DCM.idl.

**8.72.5.1340 IPS\_RefTS\_t DCM::DeviceControl::ASI\_DTF\_OutputTS\_t::OutputRef**

The reference to the DTF output stream, currently only stream 9 on port 9 is supported.

Definition at line 22034 of file DCM.idl.

**8.72.5.1341 IPS\_RefTS\_t DCM::DeviceControl::ASI\_DTF\_OutputTS\_Ex\_t::OutputRef**

The reference to the DTF output stream, currently only stream 9 on port 9 is supported.

Definition at line 22046 of file DCM.idl.

**8.72.5.1342 IPS\_RefTS\_t DCM::DeviceControl::ASI\_DTF\_OutputTS\_RDCS\_t::OutputRef**

The reference to the DTF output stream, currently only stream 9 on port 9 is supported.

Definition at line 22059 of file DCM.idl.

**8.72.5.1343 boolean DCM::DeviceControl::IPS\_SDT\_Data\_t::OutputSDTPresent**

RW flag. false = Follow Input; true = Overrule.

Definition at line 4850 of file DCM.idl.

**8.72.5.1344 IPS\_Service.t DCM::DeviceControl::IPS\_Serv\_Dest\_t::OutputService**

Definition at line 5405 of file DCM.idl.

**8.72.5.1345 Serviceld.t DCM::DeviceControl::IPS\_ServiceData\_Out\_t::OutputSID**

ID of an outgoing service.

- 0xFFFFFFFF: Don't care or not allocated yet.
- 0..65536

Definition at line 4873 of file DCM.idl.

**8.72.5.1346 unsigned long DCM::DeviceControl::ServiceES\_t::OutputSID**

Definition at line 5865 of file DCM.idl.

**8.72.5.1347 unsigned long DCM::DeviceControl::IPS\_Out\_ServiceComponents\_t::OutputSID**

Definition at line 5935 of file DCM.idl.

**8.72.5.1348 unsigned long DCM::DeviceControl::IPS\_Out\_ServiceComponents\_V2\_t::OutputSID**

Definition at line 5964 of file DCM.idl.

**8.72.5.1349 unsigned short DCM::DeviceControl::MergedESDescriptorData\_t::OutputSid**

Definition at line 8027 of file DCM.idl.

**8.72.5.1350 DPI\_ChannelName.t DCM::DeviceControl::DPI\_ChannelSettings\_t::OutputSpliceName**

Definition at line 17020 of file DCM.idl.

**8.72.5.1351 DPI\_ChannelName.t DCM::DeviceControl::DPI\_ChannelSettings2\_t::OutputSplice-Name**

Definition at line 17034 of file DCM.idl.

**8.72.5.1352 DPI\_ChannelName.t DCM::DeviceControl::DPI\_ChannelSettings3\_t::OutputSplice-Name**

Definition at line 17049 of file DCM.idl.

**8.72.5.1353 DPI\_ChannelName.t DCM::DeviceControl::DPI\_CueRequest\_t::OutputSpliceName**

Definition at line 17085 of file DCM.idl.

**8.72.5.1354 DPI\_ChannelName.t DCM::DeviceControl::DPI\_SpliceRequest\_t::OutputSpliceName**

Identifies the spliceable output channel.

Definition at line 17104 of file DCM.idl.

**8.72.5.1355 DPI\_ChannelName.t DCM::DeviceControl::DPI\_PmtSpliceModeSetting\_t::OutputSpliceName**

Definition at line 17135 of file DCM.idl.

**8.72.5.1356 eEsTypeStandard DCM::DeviceControl::IPS\_OutputTS\_t::OutputStandard**

Indicates how different PID (ES) types must be interpreted.

Definition at line 2484 of file DCM.idl.

**8.72.5.1357 eEsTypeStandard DCM::DeviceControl::IPS\_OutputTS\_V2\_t::OutputStandard**

Indicates how different PID (ES) types must be interpreted.

Definition at line 2524 of file DCM.idl.

**8.72.5.1358 IPS\_RefSvc.t DCM::DeviceControl::ETV\_ManipulationSettings\_t::OutputSvc**

Reference to the output service.

Definition at line 17174 of file DCM.idl.

**8.72.5.1359 IPS\_RefSvc.t DCM::DeviceControl::ETV\_ManipulationSettings\_V2\_t::OutputSvc**

Reference to the output service.

Definition at line 17294 of file DCM.idl.

**8.72.5.1360 IPS\_RefSvc.t DCM::DeviceControl::ETV\_EissFilter\_t::OutputSvc**

Reference to the output service.

Definition at line 17353 of file DCM.idl.

**8.72.5.1361 DvbString.t DCM::DeviceControl::IPS\_SDT\_Data\_t::OutputUserName**

Maximum string length 255 characters.

Definition at line 4862 of file DCM.idl.

**8.72.5.1362 IPS\_RefTS.t DCM::DeviceControl::IPS\_OutputTS\_LT\_t::OutRef**

The location of the OutputTS (Board, Port and Ref).

Definition at line 4458 of file DCM.idl.

**8.72.5.1363 IPS\_RefTS.t DCM::DeviceControl::IPS\_OutputTS\_LT\_V2\_t::OutRef**

The location of the OutputTS (Board, Port and Ref).

Definition at line 4475 of file DCM.idl.

**8.72.5.1364 IPS\_RefTS.t DCM::DeviceControl::DCG\_BackupStream\_t::OutRef**

Definition at line 31035 of file DCM.idl.

**8.72.5.1365 IPS\_Service.t DCM::DeviceControl::IPS\_OutServiceSync\_t::OutService**

Definition at line 16686 of file DCM.idl.

**8.72.5.1366 IPS\_Service.t DCM::DeviceControl::IPS\_OutServiceSync\_V2\_t::OutService**

Definition at line 16702 of file DCM.idl.

**8.72.5.1367 IPS\_RefTS.t DCM::DeviceControl::OutTS\_AlarmSetting\_t::OutTsRef**

Reference to the TS for which the settings are intended.

Definition at line 22997 of file DCM.idl.

**8.72.5.1368 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Oversize**

Oversize frames.

Definition at line 19865 of file DCM.idl.

**8.72.5.1369 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::Oversize**

Oversized frames.

Definition at line 19888 of file DCM.idl.

**8.72.5.1370 PCTM\_PacketCounters.t DCM::DeviceControl::PCTM\_StreamPacketCounters\_t::-PacketCounters**

Definition at line 20320 of file DCM.idl.

**8.72.5.1371 eAsiPacketFormat DCM::DeviceControl::AsiFormatData\_t::PacketFormat**

Definition at line 6640 of file DCM.idl.

**8.72.5.1372 unsigned long long DCM::DeviceControl::InPort\_DvbS2\_Counters\_t::PacketsError-Count**

Definition at line 7595 of file DCM.idl.

**8.72.5.1373 unsigned short DCM::DeviceControl::HitlessMergeSetting\_t::PacketWindow**

For future use, will read 0.

Definition at line 19676 of file DCM.idl.

**8.72.5.1374 SMX36\_VSEParams.t DCM::DeviceControl::SMX36\_VSE\_t::params**

Statmux parameters for the VSE.

Definition at line 24053 of file DCM.idl.

**8.72.5.1375 SMX36\_VSEParams.t DCM::DeviceControl::SMX36\_VSE\_V2\_t::params**

Statmux parameters for the VSE.

Definition at line 24072 of file DCM.idl.

**8.72.5.1376 SMX36\_VSEParams\_V2.t DCM::DeviceControl::SMX36\_VSE\_V3\_t::params**

Statmux parameters for the VSE.

Definition at line 24139 of file DCM.idl.



**8.72.5.1377 SMX36\_VSEParams\_V2\_t DCM::DeviceControl::SMX36\_VSE\_V4\_t::params**

Statmux parameters for the VSE.

Definition at line 24196 of file DCM.idl.

**8.72.5.1378 IPS\_RefSvc\_t DCM::DeviceControl::TC\_ServiceData\_t::ParentRefSvc**

Read only : The RefSvc of the main service. If RefSvc == ParentRefSvc, this is a main service. For PIP RefSvc <> ParentRefSvc.

Definition at line 5003 of file DCM.idl.

**8.72.5.1379 IPS\_RefSvc\_t DCM::DeviceControl::TC\_ServiceDataV2\_t::ParentRefSvc**

Read only : The RefSvc of the main service. If RefSvc == ParentRefSvc, this is a main service. For PIP RefSvc <> ParentRefSvc.

Definition at line 5593 of file DCM.idl.

**8.72.5.1380 unsigned long DCM::DeviceControl::JclInitialValue\_t::Part1**

Definition at line 24693 of file DCM.idl.

**8.72.5.1381 unsigned long DCM::DeviceControl::JclSystemId\_t::Part1**

Definition at line 24700 of file DCM.idl.

**8.72.5.1382 unsigned long DCM::DeviceControl::JclInitialValue\_t::Part2**

Definition at line 24694 of file DCM.idl.

**8.72.5.1383 unsigned long DCM::DeviceControl::JclSystemId\_t::Part2**

Definition at line 24701 of file DCM.idl.

**8.72.5.1384 unsigned long DCM::DeviceControl::JclSystemId\_t::Part3**

Definition at line 24702 of file DCM.idl.

**8.72.5.1385 unsigned long DCM::DeviceControl::JclSystemId\_t::Part4**

Definition at line 24703 of file DCM.idl.

**8.72.5.1386 unsigned long DCM::DeviceControl::JclSystemId\_t::Part5**

Definition at line 24704 of file DCM.idl.

**8.72.5.1387 unsigned long DCM::DeviceControl::JclSystemId\_t::Part6**

Definition at line 24705 of file DCM.idl.

**8.72.5.1388 unsigned long DCM::DeviceControl::JclSystemId\_t::Part7**

Definition at line 24706 of file DCM.idl.

**8.72.5.1389 unsigned long DCM::DeviceControl::JclSystemId\_t::Part8**

Definition at line 24707 of file DCM.idl.

**8.72.5.1390 boolean DCM::DeviceControl::DefaultAutoPassRules::PassDeleteECMs**

read-write; true = ECMs are auto passed/deleted; false = block of ECMs; default true

Definition at line 2882 of file DCM.idl.

**8.72.5.1391 boolean DCM::DeviceControl::Service\_AutoPassRules::PassDeleteECMs**

read-write; true = ECMs are auto passed/deleted; false = block of ECMs; default true

Definition at line 2890 of file DCM.idl.

**8.72.5.1392 boolean DCM::DeviceControl::DefaultAutoPassRules::PassDeleteES\_ECMs**

read-write; true = ES\_ECMs are auto passed/deleted; false = block of ES\_ECMs

Definition at line 2883 of file DCM.idl.

**8.72.5.1393 boolean DCM::DeviceControl::Service\_AutoPassRules::PassDeleteES\_ECMs**

read-write; true = ES\_ECMs are auto passed/deleted; false = block of ES\_ECMs

Definition at line 2891 of file DCM.idl.

**8.72.5.1394 boolean DCM::DeviceControl::DefaultAutoPassRules::PassDeleteESs**

read-write; true = ESs are auto passed/deleted; false = block of ESs; default true

Definition at line 2881 of file DCM.idl.

**8.72.5.1395 boolean DCM::DeviceControl::Service\_AutoPassRules::PassDeleteESs**

read-write; true = ESs are auto passed/deleted; false = block of ESs; default true

Definition at line 2889 of file DCM.idl.

**8.72.5.1396 boolean DCM::DeviceControl::TS\_AutoPassRules::PassDeleteUnref**

read-write; true = unreferenced pids auto passed/deleted; false = no auto pass/delete of unreferenced pids

Definition at line 2856 of file DCM.idl.

**8.72.5.1397 boolean DCM::DeviceControl::TS\_AutoPassRules::PassKeepEMMs**

read-write; true = EMMs auto passed ; false = no auto pass of EMMs

Definition at line 2858 of file DCM.idl.

**8.72.5.1398 boolean DCM::DeviceControl::TS\_AutoPassRules::PassKeepServices**

read-write; true = services auto passed ; false = no auto pass of services

Definition at line 2860 of file DCM.idl.

**8.72.5.1399 eSMX\_MFP\_PassThroughMode DCM::DeviceControl::SMX\_MFP\_SvcSettings\_V2\_t::PassThroughMode**

How pass-through services should be handled.

Definition at line 16257 of file DCM.idl.

**8.72.5.1400 string DCM::DeviceControl::MIP\_SyncTargetSettings\_t::Password**

Definition at line 21887 of file DCM.idl.

**8.72.5.1401 eTriBool DCM::DeviceControl::VCT\_Data\_t::PathSelect**

(CVCT only) false: path 1, true: path 2

Definition at line 9061 of file DCM.idl.

**8.72.5.1402 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Pause**

Pause Frames.

Definition at line 19868 of file DCM.idl.

**8.72.5.1403 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::Pause**

Pause frames.

Definition at line 19887 of file DCM.idl.

**8.72.5.1404 boolean DCM::DeviceControl::BitrateAlarmSetting\_t::PayloadBitrateEnabled**

True means alarm monitoring is enabled for the 'Payload Bitrate Too Low' alarm.

Definition at line 22989 of file DCM.idl.

**8.72.5.1405 unsigned long DCM::DeviceControl::BitrateAlarmSetting\_t::PayloadBitrateThreshold**

In pbs. When payload drops below this threshold, alarm will be triggered.

Definition at line 22988 of file DCM.idl.

**8.72.5.1406 unsigned long DCM::DeviceControl::InTS\_AES\_Statistic\_t::pb\_1day**

AES parity errors over the last day.

Definition at line 30932 of file DCM.idl.

**8.72.5.1407 unsigned long DCM::DeviceControl::InTS\_AES\_Statistic\_t::pb\_1hour**

AES parity errors over the last hour.

Definition at line 30931 of file DCM.idl.

**8.72.5.1408 unsigned long DCM::DeviceControl::InTS\_AES\_Statistic\_t::pb\_1min**

AES parity errors over the last minute.

Definition at line 30930 of file DCM.idl.

**8.72.5.1409 boolean DCM::DeviceControl::TC\_PipSettings\_t::PCR\_InPip**

Should the PCR be part of a PIP packet or should it use an empty packet (on the same PID).

Definition at line 13116 of file DCM.idl.

**8.72.5.1410 unsigned long DCM::DeviceControl::MFPB\_ServiceCfg\_t::PCR\_Interval**

10 - 100 ms, in ms. 37 by default.

Definition at line 10426 of file DCM.idl.

**8.72.5.1411 unsigned long DCM::DeviceControl::TC\_PipSettings\_t::PCR\_Interval**

10 - 300 ms, in ms.

Definition at line 13115 of file DCM.idl.

**8.72.5.1412 unsigned long DCM::DeviceControl::TC\_ServiceCfg\_t::PCR\_Interval**

10 - 300 ms, in ms.

Definition at line 13175 of file DCM.idl.

**8.72.5.1413 boolean DCM::DeviceControl::MFPB\_ServiceCfg\_t::PCR\_InVideo**

Reserved for future use: Should the PCR be part of a video packet or should it use an empty packet (on the same PID).

Definition at line 10427 of file DCM.idl.

**8.72.5.1414 boolean DCM::DeviceControl::TC\_ServiceCfg\_t::PCR\_InVideo**

Should the PCR be part of a video packet or should it use an empty packet (on the same PID).

Definition at line 13176 of file DCM.idl.

**8.72.5.1415 IPS\_Out\_PIDSettings\_t DCM::DeviceControl::IPS\_Out\_ServiceComponents\_t::PCR\_PID**

Definition at line 5937 of file DCM.idl.

**8.72.5.1416 IPS\_Out\_PIDSettings\_t DCM::DeviceControl::IPS\_Out\_ServiceComponents\_V2\_t::PCR\_PID**

Definition at line 5966 of file DCM.idl.

**8.72.5.1417 unsigned short DCM::DeviceControl::IPS\_In\_ServiceComponents\_t::PCR\_PID**

Definition at line 6017 of file DCM.idl.

**8.72.5.1418 unsigned long DCM::DeviceControl::TR\_Service\_t::PCR\_Pid**

The PCR PID in the service.

Definition at line 15006 of file DCM.idl.

**8.72.5.1419 string DCM::DeviceControl::DeviceBackupLink\_t::PeerIPAddress**

IP address of the other [DCM](#), as reachable via the specified network interface.

Definition at line 21125 of file DCM.idl.

**8.72.5.1420 string DCM::DeviceControl::DeviceBackupParams\_t::PeerIPAddress**

IP Address of the other [DCM](#).

Definition at line 21140 of file DCM.idl.

**8.72.5.1421 string DCM::DeviceControl::IPSecHost::PeerIPAddress**

The IP address of the IPsec capable host.

Definition at line 24451 of file DCM.idl.

**8.72.5.1422 unsigned long DCM::DeviceControl::SI\_Table\_Period\_t::Period**

Definition at line 2731 of file DCM.idl.

**8.72.5.1423 SI\_Table\_Period\_List\_t DCM::DeviceControl::TS\_SI\_Table\_Periods\_t::Periods**

Definition at line 2746 of file DCM.idl.

**8.72.5.1424 IPS\_Ref\_t DCM::DeviceControl::IPS\_RefTS\_t::PhysRef**

See [IPS\\_Ref\\_t](#).

Definition at line 422 of file DCM.idl.

**8.72.5.1425 IPS\_Ref\_t DCM::DeviceControl::TR\_BitRateMeasurement\_t::PhysRef**

Definition at line 9858 of file DCM.idl.

**8.72.5.1426 boolean DCM::DeviceControl::PacketIndexerSettings\_t::PI\_Enabled**

Definition at line 29290 of file DCM.idl.

**8.72.5.1427 unsigned short DCM::DeviceControl::PacketIndexerSettings\_t::PI\_MaxInterval**

range 100..1000ms, in steps of 10ms

Definition at line 29291 of file DCM.idl.

**8.72.5.1428 unsigned short DCM::DeviceControl::Table\_Sync\_Info\_t::Pid**

pid value. Typically 0x14 for TDT/TOT and 0x1FFB for STT < If INVALID\_PID\_VALUE (0xFFFF) is specified then typical pid value < will be used automatically

Definition at line 736 of file DCM.idl.

**8.72.5.1429 unsigned short DCM::DeviceControl::IPS\_RefPid\_t::Pid**

Value of the PID.

Definition at line 2815 of file DCM.idl.

**8.72.5.1430 unsigned short DCM::DeviceControl::PSIGSubTable\_t::Pid**

As in PSIG stream setup.

Definition at line 8347 of file DCM.idl.

**8.72.5.1431 unsigned short DCM::DeviceControl::IIOP\_SubTable\_t::Pid**

the output PID where the sub-table is played out.

Definition at line 8396 of file DCM.idl.

**8.72.5.1432 unsigned short DCM::DeviceControl::OutTS\_PsipEttvPid\_t::Pid**

Definition at line 9574 of file DCM.idl.

**8.72.5.1433 unsigned short DCM::DeviceControl::PsipMgtInfo\_t::PID**

Definition at line 9697 of file DCM.idl.

**8.72.5.1434 unsigned short DCM::DeviceControl::TS\_CompBitRateMeasurement\_t::PID**

Definition at line 9809 of file DCM.idl.

**8.72.5.1435 unsigned short DCM::DeviceControl::ServiceCompBitRateMeasurement\_t::PID**

Definition at line 9820 of file DCM.idl.

**8.72.5.1436 unsigned short DCM::DeviceControl::MFPB\_Component\_t::Pid**

Definition at line 10559 of file DCM.idl.

**8.72.5.1437 unsigned short DCM::DeviceControl::MFPB\_AudioDecodeExtraMPEGL2Settings\_t::-Pid**

For Future functionality. The new PID value for the extra right channel. Only used when enDualMonoToMono is split.

Definition at line 12394 of file DCM.idl.

**8.72.5.1438 unsigned short DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbySettings\_t::Pid**

For Future functionality. The new PID value for the extra right channel. Only used when enDualMonoToMono is split.

Definition at line 12543 of file DCM.idl.

**8.72.5.1439 unsigned short DCM::DeviceControl::TC\_Component\_t::Pid**

Definition at line 13232 of file DCM.idl.

**8.72.5.1440 unsigned short DCM::DeviceControl::TR\_AudioLevel\_t::Pid**

The PID value (0..8190)

Definition at line 16858 of file DCM.idl.

**8.72.5.1441 unsigned long DCM::DeviceControl::IPS\_OutPID\_Data2\_t::PID\_Property**

Read only Bitmap used by GUI to display specific icons < Bit 0: PID present in input TS or not < TRUE means present < FALSE: PID not present < Remark: present or not present is based on SI < For unreferenced pids based upon presence of input pid < Bit 1: ignore bit (used as scrambling bit in valid component/service) < Bit 4: input pid scrambled < TRUE means scrambled.

Definition at line 2588 of file DCM.idl.

**8.72.5.1442 unsigned long DCM::DeviceControl::IPS\_InPID\_Data\_V2\_t::PID\_Property**

Read-only bitmap used by GUI to display specific icons < Bit 0: input signal present (true) or not (false)

Definition at line 2616 of file DCM.idl.

**8.72.5.1443 unsigned long DCM::DeviceControl::IPS\_Out\_PIDSettings\_t::PID\_Property**

Read only Bitmap used by GUI to display specific icons < Bit 0: PID present in input TS or not < TRUE means present < FALSE: PID not present < Remark: present or not present is based on SI < Bit 1: Service scrambled by DCM < TRUE means scrambled by DCM < FALSE means not scrambled by DCM < Bit 2: PID descrambled by DCM (TRUE = descrambled) < Bit 3: PID is not correctly descrambled (when descrambled by DCM) < TRUE means that not descrambled alarm is active < Bit 4: PID is scrambled at input < TRUE means scrambled at input.

Definition at line 5893 of file DCM.idl.

**8.72.5.1444 unsigned long DCM::DeviceControl::IPS\_In\_ESSettings\_t::PID\_Property**

Read only Bitmap used by GUI to display specific icons < Bit 0: PID present in input TS or not < TRUE means present < FALSE: PID not present < Remark: present or not present is based on SI < Bit 4: PID scrambled at input <.

Definition at line 6000 of file DCM.idl.

**8.72.5.1445 IPS\_OutPID\_SyncList\_t DCM::DeviceControl::IPS\_OutServiceSync\_t::PID\_SyncList**

Definition at line 16687 of file DCM.idl.

**8.72.5.1446 IPS\_OutPID\_SyncList\_V2\_t DCM::DeviceControl::IPS\_OutServiceSync\_V2\_t::PID\_SyncList**

Definition at line 16703 of file DCM.idl.

**8.72.5.1447 PID\_List\_t DCM::DeviceControl::ServiceLossTrigger\_t::pidList**

PID range: 0..8190, List of pids to monitor: only evaluated in case bit 6 in the TriggerBitmap\_t is set.

Definition at line 20848 of file DCM.idl.

**8.72.5.1448 ePIDPassingStatus DCM::DeviceControl::IPS\_Out\_PIDSettings\_t::PIDSetting**

Set by user, can only be ePID\_StatusBlockedByUser or ePID\_StatusPassed.

Is changed through the IPS\_PassBlockPids IDL call.

Definition at line 5891 of file DCM.idl.

**8.72.5.1449 ePIDPassingStatus DCM::DeviceControl::IPS\_Out\_PIDSettings\_t::PIDStatus**

Measurement, can be different from setting.

Definition at line 5890 of file DCM.idl.

**8.72.5.1450 TC\_PipList\_t DCM::DeviceControl::TC\_PipCfg\_t::Pip**

Definition at line 13212 of file DCM.idl.

**8.72.5.1451 unsigned long DCM::DeviceControl::TC\_BoardCfg\_V2\_t::Pip\_Slots**

Definition at line 12854 of file DCM.idl.

**8.72.5.1452 boolean DCM::DeviceControl::TC\_ES\_CaptionInfo\_t::PipService**

0 means for main service; 1 means for PIP service

Definition at line 13250 of file DCM.idl.

**8.72.5.1453 unsigned long DCM::DeviceControl::InPort\_DvbS2\_TunerCfg\_t::PL\_ScramblingSeq-Index**

0..262141

Definition at line 7441 of file DCM.idl.

**8.72.5.1454 IPS\_Out\_PIDSettings\_t DCM::DeviceControl::IPS\_Out\_ServiceComponents\_t::PMT\_PID**

Definition at line 5936 of file DCM.idl.

**8.72.5.1455 IPS\_Out\_PIDSettings\_t DCM::DeviceControl::IPS\_Out\_ServiceComponents\_V2\_t::PMT\_PID**

Definition at line 5965 of file DCM.idl.

**8.72.5.1456 unsigned short DCM::DeviceControl::IPS\_In\_ServiceComponents\_t::PMT\_PID**

Definition at line 6016 of file DCM.idl.

**8.72.5.1457 ePmtSpliceMode DCM::DeviceControl::DPI\_PmtSpliceModeSetting\_t::PmtSpliceMode**

Definition at line 17136 of file DCM.idl.

**8.72.5.1458 eDvbS2\_Polarization\_t DCM::DeviceControl::InPort\_DvbS2\_TunerCfg\_t::Polarization**  
horizontal or vertical

Definition at line 7434 of file DCM.idl.

**8.72.5.1459 long DCM::DeviceControl::NTP\_Stats\_t::PollInterval**

Current interval between poll attempts, in seconds.

Definition at line 697 of file DCM.idl.

**8.72.5.1460 unsigned long DCM::DeviceControl::SMX36\_Pool\_t::Pool\_Property**

Read only Bitmap used by GUI to display specific icons.

Definition at line 23791 of file DCM.idl.

**8.72.5.1461 unsigned long DCM::DeviceControl::SMX36\_Pool\_V2\_t::Pool\_Property**

Read only Bitmap used by GUI to display specific icons.

Definition at line 23811 of file DCM.idl.

**8.72.5.1462 short DCM::DeviceControl::SMX36\_StatmuxController\_t::PoolCapacity**

RO The max number of pool the controller can handle.

Definition at line 23728 of file DCM.idl.

**8.72.5.1463 long DCM::DeviceControl::SMX36\_VSE\_t::PoolId**

Pool Id of the pool containing this VSE if any if not assigned the id is -1.



Definition at line 24052 of file DCM.idl.

**8.72.5.1464 long DCM::DeviceControl::SMX36\_VSE\_V2\_t::PoolId**

Pool Id of the pool containing this VSE if any if not assigned the id is -1.

Definition at line 24071 of file DCM.idl.

**8.72.5.1465 long DCM::DeviceControl::SMX36\_VSE\_V3\_t::PoolId**

Pool Id of the pool containing this VSE if any if not assigned the id is -1.

Definition at line 24118 of file DCM.idl.

**8.72.5.1466 long DCM::DeviceControl::SMX36\_VSE\_V4\_t::PoolId**

Pool Id of the pool containing this VSE if any if not assigned the id is -1.

Definition at line 24169 of file DCM.idl.

**8.72.5.1467 unsigned short DCM::DeviceControl::SMX\_PoolRef\_t::PoolNr**

Definition at line 23350 of file DCM.idl.

**8.72.5.1468 SMX\_PoolRef\_t DCM::DeviceControl::SMX\_StatMuxPool::PoolRef**

Definition at line 23368 of file DCM.idl.

**8.72.5.1469 SMX\_PoolRef\_t DCM::DeviceControl::SMX\_StatMuxPool\_V2::PoolRef**

Definition at line 23386 of file DCM.idl.

**8.72.5.1470 SMX\_PoolRef\_t DCM::DeviceControl::SMX\_EncRef\_t::PoolRef**

Definition at line 23419 of file DCM.idl.

**8.72.5.1471 IPS\_Ref\_t DCM::DeviceControl::NicTeam\_MemberStatus\_t::Port**

Definition at line 2204 of file DCM.idl.

**8.72.5.1472 unsigned short DCM::DeviceControl::IPS\_UDP\_Socket\_t::Port**

Recommended UDP Port range: 1024 (0X400) .. 65535 (0xFFFF).

Definition at line 2313 of file DCM.idl.

**8.72.5.1473 IPS\_Ref\_t DCM::DeviceControl::GbEPortStatsEntry\_t::Port**

The port for which the stats apply.

Definition at line 19912 of file DCM.idl.

**8.72.5.1474 ePortEnabledMode DCM::DeviceControl::BoardCfg\_V2\_t::PortEnabledMode**

How the port mode is configured.

Definition at line 1705 of file DCM.idl.

**8.72.5.1475 ePortFilterMode DCM::DeviceControl::PortFilter\_t::PortFilterMode**

Definition at line 18539 of file DCM.idl.

**8.72.5.1476 ePortFilterType DCM::DeviceControl::PortFilter\_t::PortFilterType**

Definition at line 18538 of file DCM.idl.

**8.72.5.1477 unsigned short DCM::DeviceControl::IPS\_Ref\_t::PortNr**

The physical port.

- ASI, has 10 ports. PortNr range: 0..9.
- GbE, has 4 ports. PortNr range: 0..3. The wildcard, 0xFFFF, if allowed means all ports on this board. If [IPS\\_Ref\\_t](#) is used to identify a virtual port (e.g. VLAN), PortNr can be > number of Physical ports

Definition at line 410 of file DCM.idl.

**8.72.5.1478 unsigned long DCM::DCM\_Notifications::Messages::PortNr**

Definition at line 32237 of file DCM.idl.

**8.72.5.1479 unsigned long DCM::DCM\_Notifications::DCM\_TsIdOnIdChange::PortNr**

Definition at line 32260 of file DCM.idl.

**8.72.5.1480 unsigned long DCM::DCM\_Notifications::Output\_TS\_Change::PortNr**

Definition at line 32274 of file DCM.idl.

**8.72.5.1481 unsigned long DCM::DCM\_Notifications::Output\_TS\_Delete::PortNr**

Definition at line 32288 of file DCM.idl.

**8.72.5.1482 unsigned long DCM::DeviceControl::BoardCfg\_t::PortProperty**

Read only Bitmap used by GUI to display specific icons. Bit: 0 Individual GbE port streaming state Bit: 1 This port is an SFP port (GbE, Sdi, ...). A user can plug in an appropriate SFP. Bit: 2 This port is a DetMux RDCS TS port. Bit: 31 Monitoring port, restricted functionality Other bits: Future use. (0 for the moment)

Definition at line 1664 of file DCM.idl.

**8.72.5.1483 unsigned long DCM::DeviceControl::BoardCfg\_V2\_t::PortProperty**

Read only Bitmap used by GUI to display specific icons. Bit: 0 Individual GbE port streaming state Bit: 1 This port is an SFP port (GbE, Sdi, ...). A user can plug in an appropriate SFP. Bit: 2 This port is a DetMux RDCS TS port. Bit: 31 Monitoring port, restricted functionality Other bits: Future use. (0 for the moment)

Definition at line 1707 of file DCM.idl.

**8.72.5.1484 IPS\_Ref\_t DCM::DeviceControl::RipInterfaceSettings::PortRef**

PhysRef of physical/virtual interface.

Definition at line 31964 of file DCM.idl.

**8.72.5.1485 unsigned short DCM::DeviceControl::Scte35Data\_Keyer\_config\_t::Position\_x\_offset**

Definition at line 8663 of file DCM.idl.

**8.72.5.1486 unsigned short DCM::DeviceControl::Scte35Data\_Keyer\_config\_t::Position\_y\_offset**

Definition at line 8664 of file DCM.idl.

**8.72.5.1487 unsigned short DCM::DeviceControl::IP\_Subnet\_t::PrefixLength**

Definition at line 2064 of file DCM.idl.

**8.72.5.1488 unsigned short DCM::DeviceControl::IP\_Route\_t\_V2::PrefixLength**

Definition at line 18716 of file DCM.idl.

**8.72.5.1489 string DCM::DeviceControl::IPSecHost::PreSharedKey**

The preshard key used for setting up IPsec.

Definition at line 24452 of file DCM.idl.

**8.72.5.1490 unsigned long DCM::DeviceControl::DPI\_ChannelSettings\_t::PrimaryChannel**

SID.

Definition at line 17023 of file DCM.idl.

**8.72.5.1491 unsigned long DCM::DeviceControl::DPI\_ChannelSettings2\_t::PrimaryChannel**

SID.

Definition at line 17037 of file DCM.idl.

**8.72.5.1492 unsigned long DCM::DeviceControl::DPI\_ChannelSettings3\_t::PrimaryChannel**

SID.

Definition at line 17051 of file DCM.idl.

**8.72.5.1493 unsigned long DCM::DeviceControl::DPI\_ChannelStatus\_t::PrimaryChannel**

SID.

Definition at line 17068 of file DCM.idl.

**8.72.5.1494 IPS\_RefTS\_t DCM::DeviceControl::DPI\_ChannelSettings\_t::PrimaryTs**

Definition at line 17022 of file DCM.idl.

**8.72.5.1495 IPS\_RefTS\_t DCM::DeviceControl::DPI\_ChannelSettings2\_t::PrimaryTs**

Definition at line 17036 of file DCM.idl.

**8.72.5.1496 IPS\_RefTS\_t DCM::DeviceControl::DPI\_ChannelSettings3\_t::PrimaryTs**

Definition at line 17050 of file DCM.idl.

**8.72.5.1497 IPS\_RefTS\_t DCM::DeviceControl::DPI\_ChannelStatus\_t::PrimaryTs**

Definition at line 17067 of file DCM.idl.

**8.72.5.1498 octet DCM::DeviceControl::TR\_ServiceSettings\_t::Priority**

The transrater priority.

Definition at line 15013 of file DCM.idl.

**8.72.5.1499 octet DCM::DeviceControl::TR\_ServiceSettings\_V2\_t::Priority**

The transrater priority.

Definition at line 15458 of file DCM.idl.

**8.72.5.1500 long DCM::DeviceControl::SMX\_MFP\_SvcSettings\_t::Priority**

relative priority (quality) in the statmux group. Range: from 0 to 6. < DEFAULT when service is added into a group: 3

Definition at line 16233 of file DCM.idl.

**8.72.5.1501 long DCM::DeviceControl::SMX\_MFP\_SvcSettings\_V2\_t::Priority**

see [SMX\\_MFP\\_SvcSettings\\_t](#)

Definition at line 16260 of file DCM.idl.

**8.72.5.1502 unsigned short DCM::DeviceControl::VLAN\_Settings\_t::Priority**

range: 0-7 0=default 1=low 7=high (ieee 802.1D)

Definition at line 18008 of file DCM.idl.

**8.72.5.1503 unsigned short DCM::DeviceControl::SMX\_StatMuxPool::Priority**

Definition at line 23373 of file DCM.idl.

**8.72.5.1504 unsigned short DCM::DeviceControl::SMX\_StatMuxPool\_V2::Priority**

Definition at line 23391 of file DCM.idl.

**8.72.5.1505 short DCM::DeviceControl::SMX\_Encoder\_t::Priority**

Definition at line 23461 of file DCM.idl.

**8.72.5.1506 short DCM::DeviceControl::SMX36\_VSEParams\_t::Priority**

VSE Priority. Range (0..6)

Definition at line 24005 of file DCM.idl.

**8.72.5.1507 short DCM::DeviceControl::SMX36\_VSEParams\_V2\_t::Priority**

VSE Priority. Range (0..6)

Definition at line 24016 of file DCM.idl.

**8.72.5.1508 PriorityBitMode\_t DCM::DeviceControl::InTS\_PriorityBit\_t::PriorityBitSetting**

Indicates how the priority bit should be handled.

Definition at line 4352 of file DCM.idl.

**8.72.5.1509 string DCM::DeviceControl::IpServiceDisplayData::ProcessName**

Name of process that has opened the port.

Definition at line 24646 of file DCM.idl.

**8.72.5.1510 string DCM::DeviceControl::DescrCAM\_Status\_t::ProductName**

CAM product name.

Definition at line 28702 of file DCM.idl.

**8.72.5.1511 unsigned long DCM::DeviceControl::IP\_Subnet\_t::Properties**

Read only bitmap containing properties for this Subnet Bit 0: Read only This subnet is automatically configured and cannot be changed Bit 1: Main - This subnet is the main subnet.

Definition at line 2062 of file DCM.idl.

**8.72.5.1512 unsigned long DCM::DeviceControl::DescrServiceData\_t::Property**

Read only Bitmap used by GUI to display < Bit 0: Service present at input (true) or not (false). < Bit 1: TRUE if service can't be deleted < Bit 2: TRUE if service is scrambled (before descrambling) < Bit 3: TRUE if service is being descrambled by descrambler. < Bit 4: TRUE if service is in backup < Bit 5: TRUE if Service Loss Alarm is active. < Bit 6: TRUE if not-descrambled alarm is active. < Bit 7: TRUE if service is part of a TS in SFN or TS mode. < Other bits for future use.

Definition at line 28086 of file DCM.idl.

**8.72.5.1513 unsigned long DCM::DeviceControl::DescrTS\_Data\_t::Property**

Read only Bitmap used by GUI to display < Bit 0: TS present at input (true) or not (false). < Bit 1: TRUE if TS can't be deleted < Bit 2: at least one of the source input PIDs of this < TS is scrambled < Bit 3: TRUE if TS Loss Alarm is active. < Other bits for future use.

Definition at line 28199 of file DCM.idl.

**8.72.5.1514 unsigned long DCM::DeviceControl::DescrTS\_Data\_V2\_t::Property**

Read only Bitmap used by GUI to display < Bit 0: TS present at input (true) or not (false). < Bit 1: TRUE if TS can't be deleted < Bit 2: at least one of the source input PIDs of this < TS is scrambled < Bit 3: TRUE if TS Loss Alarm is active. < Other bits for future use.

Definition at line 28223 of file DCM.idl.

**8.72.5.1515 unsigned long DCM::DeviceControl::DCG\_OutputGBE\_t::Property**

Bit 0: if VLAN enabled < Bit 1: if stream is present at output.

Definition at line 30134 of file DCM.idl.

**8.72.5.1516 enumEasProtocol\_t DCM::DeviceControl::EasConfig\_t::Protocol**

protocol used by EAS proxy.

Definition at line 28998 of file DCM.idl.

**8.72.5.1517 unsigned short DCM::DeviceControl::DeviceBackupLink\_t::ProtocolUDPPort**

UDP port to be used by both DCM's. Must be the same on both DCM's for this link.

Definition at line 21128 of file DCM.idl.

**8.72.5.1518 unsigned short DCM::DeviceControl::DeviceBackupParams\_t::ProtocolUDPPort**

UDP Port to be used by both DCM's. Must be the same value on both devices.

Definition at line 21141 of file DCM.idl.

**8.72.5.1519 string DCM::DeviceControl::IpServiceDisplayData::ProtoName**

Name of application level protocol if meaningful one exists, e.g. ssh.

Definition at line 24645 of file DCM.idl.

**8.72.5.1520 string DCM::DeviceControl::EMM\_Data\_t::ProxyName**

Definition at line 2635 of file DCM.idl.

**8.72.5.1521 long DCM::DeviceControl::PSIGSubTable\_t::PsigId**

Identification of the PSIG connection (as used in the scrambler.idl functions)

Definition at line 8343 of file DCM.idl.

**8.72.5.1522 ePsigType DCM::DeviceControl::PSIGSubTable\_t::PsigType**

Property of this PSIG connection (SA specific or not)

Definition at line 8342 of file DCM.idl.

**8.72.5.1523 PsipMgtInfoList\_t DCM::DeviceControl::TS\_PsipMgtInfo\_t::PsipMgtInfoList**

Definition at line 9707 of file DCM.idl.

**8.72.5.1524 PsipUpdateRuleList\_t DCM::DeviceControl::SvcOutPsipUpdateRule\_t::PsipUpdateRuleList**

Definition at line 8495 of file DCM.idl.

**8.72.5.1525 SMX36\_QoSMode\_e DCM::DeviceControl::SMX36\_NetworkQoS\_t::QoSMode**

QoS Mode.

Definition at line 23643 of file DCM.idl.

**8.72.5.1526 TC\_QuestionList\_t DCM::DeviceControl::TC\_DependantQuestion\_t::Questions**

Definition at line 12896 of file DCM.idl.

**8.72.5.1527 octet DCM::DeviceControl::Color\_t::R**

Definition at line 13873 of file DCM.idl.

**8.72.5.1528 BitRateMeasurement\_t DCM::DeviceControl::ServiceBitRateMeasurement\_t::Rate**

Definition at line 9800 of file DCM.idl.

**8.72.5.1529 BitRateMeasurement\_t DCM::DeviceControl::TS\_CompBitRateMeasurement\_t::Rate**

Definition at line 9811 of file DCM.idl.

**8.72.5.1530 BitRateMeasurement\_t DCM::DeviceControl::ServiceCompBitRateMeasurement\_t::Rate**

Definition at line 9824 of file DCM.idl.

**8.72.5.1531 string DCM::DeviceControl::NTP\_Stats\_t::Reachability**

Indicates the reachability status of the peer as an octal number.

Definition at line 698 of file DCM.idl.

**8.72.5.1532 boolean DCM::DeviceControl::TempLicenseData::RebootNeeded**

Definition at line 20664 of file DCM.idl.

**8.72.5.1533 octet DCM::DeviceControl::DCG\_GeneratorConfig\_t::RedColorValue**

Definition at line 30739 of file DCM.idl.

**8.72.5.1534 enRedusSwitchMode DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_t::REDUS\_1-\_autoswitch**

Definition at line 8604 of file DCM.idl.

**8.72.5.1535 enRedusSwitchSource DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_t::REDUS\_1\_state**

Definition at line 8603 of file DCM.idl.

**8.72.5.1536 enRedusSwitchMode DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_t::REDUS\_2-\_autoswitch**

Definition at line 8606 of file DCM.idl.

**8.72.5.1537 enRedusSwitchSource DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_t::REDUS\_2\_state**

Definition at line 8605 of file DCM.idl.

**8.72.5.1538 enRedusSwitchMode DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_t::REDUS\_3-\_autoswitch**

Definition at line 8608 of file DCM.idl.

**8.72.5.1539 enRedusSwitchSource DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_t::REDUS\_3\_state**

Definition at line 8607 of file DCM.idl.

**8.72.5.1540 enRedusSwitchMode** DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_t::REDUS\_4\_autoswitch

Definition at line 8610 of file DCM.idl.

**8.72.5.1541 enRedusSwitchSource** DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_t::REDUS\_4\_state

Definition at line 8609 of file DCM.idl.

**8.72.5.1542 enRedusSwitchMode** DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_Single\_t::REDUS\_autoswitch

Definition at line 8618 of file DCM.idl.

**8.72.5.1543 unsigned short** DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_Single\_t::REDUS\_id

Definition at line 8616 of file DCM.idl.

**8.72.5.1544 enRedusSwitchSource** DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_Single\_t::REDUS\_state

Definition at line 8617 of file DCM.idl.

**8.72.5.1545 unsigned long** DCM::DeviceControl::IPS\_RefTS\_t::Ref

This is the TS index.

- ASI, Ref = TS index = PortNr
- GbE, 8VSB Ref = TS index != PortNr

Definition at line 423 of file DCM.idl.

**8.72.5.1546 IPS\_RefTS\_t** DCM::DeviceControl::MM\_ID\_t::Ref

board + port + TSIndex

Definition at line 434 of file DCM.idl.

**8.72.5.1547 IPS\_RefTS\_t** DCM::DeviceControl::IPS\_OutputTS\_t::Ref

The location of the TS (Board, Port and Ref).

Definition at line 2459 of file DCM.idl.

**8.72.5.1548 IPS\_RefTS\_t** DCM::DeviceControl::IPS\_OutputTS\_V2\_t::Ref

The location of the TS (Board, Port and Ref).

Definition at line 2494 of file DCM.idl.

**8.72.5.1549 IPS\_Ref\_t** DCM::DeviceControl::IPS\_LookupTS\_t::Ref

The location to search (Board, Port). Board number is ignored.

Definition at line 2535 of file DCM.idl.



**8.72.5.1550 unsigned long DCM::DeviceControl::IPS\_ReferenceTS\_t::Ref**

Definition at line 2544 of file DCM.idl.

**8.72.5.1551 Ref\_SI\_table\_ext\_t DCM::DeviceControl::SI\_Table\_Period\_t::Ref**

Definition at line 2730 of file DCM.idl.

**8.72.5.1552 Ref\_SI\_table\_ext\_t DCM::DeviceControl::SI\_Table\_GenerationMode\_t::Ref**

Definition at line 2738 of file DCM.idl.

**8.72.5.1553 IPS\_RefTS\_t DCM::DeviceControl::GbeIO\_IP\_Settings\_t::Ref**

Reference to the output stream.

Definition at line 3308 of file DCM.idl.

**8.72.5.1554 IPS\_RefTS\_t DCM::DeviceControl::IPS\_Service\_t::Ref**

Identifies the unique location (Board, Port, TS).

Definition at line 4705 of file DCM.idl.

**8.72.5.1555 IPS\_Ref\_t DCM::DeviceControl::TRBitRateSample\_t::Ref**

Identifies the unique location (Board, Port).

Definition at line 9848 of file DCM.idl.

**8.72.5.1556 IPS\_RefTS\_t DCM::DeviceControl::IPS\_OutTS\_RTP\_t::Ref**

Definition at line 17915 of file DCM.idl.

**8.72.5.1557 IPS\_Ref\_t DCM::DeviceControl::DescrResource\_t::Ref**

identification of descrambler in all other functions.

Definition at line 28030 of file DCM.idl.

**8.72.5.1558 IPS\_RefTS\_t DCM::DeviceControl::DCG\_OutputTS\_t::Ref**

The location of the TS (Board, Port and Ref).

Definition at line 30079 of file DCM.idl.

**8.72.5.1559 IPS\_RefTS\_t DCM::DeviceControl::DCG\_StreamBackupParams\_t::Ref**

Definition at line 30990 of file DCM.idl.

**8.72.5.1560 unsigned long DCM::DCM\_Notifications::Messages::Ref**

Definition at line 32238 of file DCM.idl.

**8.72.5.1561 unsigned long DCM::DCM\_Notifications::DCM\_TsIdOnIdChange::Ref**

Definition at line 32261 of file DCM.idl.

**8.72.5.1562 unsigned long DCM::DCM\_Notifications::Output\_TS\_Change::Ref**

Definition at line 32275 of file DCM.idl.

**8.72.5.1563 unsigned long DCM::DCM\_Notifications::Output\_TS\_Delete::Ref**

Definition at line 32289 of file DCM.idl.

**8.72.5.1564 IPS\_RefTS\_t DCM::DeviceControl::IPS\_In\_ServiceComponents\_t::Ref\_In**

Definition at line 6014 of file DCM.idl.

**8.72.5.1565 IPS\_RefTS\_t DCM::DeviceControl::IPS\_Out\_ServiceComponents\_t::Ref\_Out**

Definition at line 5934 of file DCM.idl.

**8.72.5.1566 IPS\_RefTS\_t DCM::DeviceControl::IPS\_Out\_ServiceComponents\_V2\_t::Ref\_Out**

Definition at line 5963 of file DCM.idl.

**8.72.5.1567 IPS\_RefTS\_t DCM::DeviceControl::DescrTS\_Data\_t::RefActiveTS**

Read only : Reference of the active input TS (for TS backup).

Definition at line 28208 of file DCM.idl.

**8.72.5.1568 IPS\_RefTS\_t DCM::DeviceControl::DescrTS\_Data\_V2\_t::RefActiveTS**

Read only : Reference of the active input TS (for TS backup).

Definition at line 28232 of file DCM.idl.

**8.72.5.1569 eNTP\_RefClockTypes DCM::DeviceControl::NTP\_Stats\_t::RefClockType**

Definition at line 695 of file DCM.idl.

**8.72.5.1570 RefProcessorEngineUnit\_t DCM::DeviceControl::MFPB\_EngineUnitCfg\_t::RefEngineUnit**

unique reference to an engine unit

Definition at line 10379 of file DCM.idl.

**8.72.5.1571 RefProcessorEngineUnit\_t DCM::DeviceControl::MFPB\_ServiceCfg\_t::RefEngineUnit**

The processor engine handling this service (engine nr == 0xFFFFE can be used to delay services)

Definition at line 10422 of file DCM.idl.

**8.72.5.1572 RefProcessorEngineUnit\_t DCM::DeviceControl::MFPB\_MPEG2FramePicturesCfg\_t::RefEngineUnit**

The processor engine handling this service (engine nr == 0xFFFFE can be used to delay services)

Definition at line 10471 of file DCM.idl.

**8.72.5.1573 string DCM::DeviceControl::NTP\_Stats\_t::RefID**

Reference Clock Identifier.

Definition at line 693 of file DCM.idl.

**8.72.5.1574 IPS\_RefTS.t DCM::DeviceControl::IPS\_InputTS\_t::RefIn**

The location of the TS (Board, Port and Ref).

Definition at line 2349 of file DCM.idl.

**8.72.5.1575 IPS\_RefTS.t DCM::DeviceControl::IPS\_Gbe\_InputTS\_t::RefIn**

The location of the TS (Board, Port and Ref).

Definition at line 2378 of file DCM.idl.

**8.72.5.1576 IPS\_RefTS.t DCM::DeviceControl::Debug\_Gbe\_InputTS\_t::RefIn**

The location of the TS (Board, Port and Ref).

Definition at line 2385 of file DCM.idl.

**8.72.5.1577 IPS\_RefTS.t DCM::DeviceControl::IPS\_ChangeInputTS\_t::RefIn**

The location of the TS (Board, Port and Ref).

Definition at line 2397 of file DCM.idl.

**8.72.5.1578 IPS\_RefTS.t DCM::DeviceControl::IPS\_OutPID\_Data\_t::RefIn**

Definition at line 2559 of file DCM.idl.

**8.72.5.1579 IPS\_RefTS.t DCM::DeviceControl::IPS\_OutPID\_Data2\_t::RefIn**

Definition at line 2580 of file DCM.idl.

**8.72.5.1580 IPS\_RefTS.t DCM::DeviceControl::IPS\_InPID\_Data\_t::RefIn**

Definition at line 2604 of file DCM.idl.

**8.72.5.1581 IPS\_RefTS.t DCM::DeviceControl::IPS\_InPID\_Data\_V2\_t::RefIn**

Definition at line 2613 of file DCM.idl.

**8.72.5.1582 IPS\_RefTS.t DCM::DeviceControl::InTS\_PriorityBit\_t::RefIn**

The location of the input TS (Board, Port and Ref).

Definition at line 4351 of file DCM.idl.

**8.72.5.1583 IPS\_RefTS.t DCM::DeviceControl::IPS\_Service\_In\_t::RefIn**

Definition at line 4742 of file DCM.idl.

**8.72.5.1584 IPS\_RefTS.t DCM::DeviceControl::IPS\_Out\_PIDSettings\_t::RefIn**

The location (slot, port) and stream.

Definition at line 5885 of file DCM.idl.

**8.72.5.1585 IPS\_RefTS.t DCM::DeviceControl::DvbS2\_InputTS\_t::RefIn**

Identifies the input stream (Board, Port and Ref).

Definition at line 7736 of file DCM.idl.

**8.72.5.1586 IPS\_RefTS.t DCM::DeviceControl::Debug\_DvbS2\_InputTS\_t::RefIn**

The location of the TS (Board, Port and Ref).

Definition at line 7765 of file DCM.idl.

**8.72.5.1587 IPS\_RefTS.t DCM::DeviceControl::DCG\_InputTS\_t::RefIn**

The location of the TS (Board, Port and Ref).

Definition at line 29980 of file DCM.idl.

**8.72.5.1588 IPS\_RefTS.t DCM::DeviceControl::RoutingData\_t::RefIn**

Definition at line 30154 of file DCM.idl.

**8.72.5.1589 IPS\_RefTS.t DCM::DeviceControl::VideoSignalInfo\_t::RefIn**

Definition at line 30199 of file DCM.idl.

**8.72.5.1590 IPS\_RefTS.t DCM::DeviceControl::InTS\_Statistic\_t::RefIn**

Definition at line 30893 of file DCM.idl.

**8.72.5.1591 IPS\_RefTS.t DCM::DeviceControl::InTS\_AES\_Statistic\_t::RefIn**

Reference of input.

Definition at line 30929 of file DCM.idl.

**8.72.5.1592 IPS\_RefTS.t DCM::DeviceControl::DCG\_AudioSignalInfo\_t::RefIn**

Reference of input stream.

Definition at line 31206 of file DCM.idl.

**8.72.5.1593 IPS\_RefTS.t DCM::DeviceControl::DescrTS\_Data\_t::RefInputTs**

Read only : Reference to the input TS that was used to create the TS on the descrambler.

Definition at line 28206 of file DCM.idl.

**8.72.5.1594 IPS\_RefTS.t DCM::DeviceControl::DescrTS\_Data\_V2\_t::RefInputTs**

Read only : Reference to the input TS that was used to create the TS on the descrambler.

Definition at line 28230 of file DCM.idl.

**8.72.5.1595 IPS\_RefTS.t DCM::DeviceControl::Debug\_Gbe\_OutputTS\_t::RefOut**

The location of the TS (Board, Port and Ts Ident).

Definition at line 2450 of file DCM.idl.

**8.72.5.1596 IPS\_RefTS.t DCM::DeviceControl::IPS\_OutPID\_Data\_t::RefOut**

Definition at line 2558 of file DCM.idl.

**8.72.5.1597 IPS\_RefTS.t DCM::DeviceControl::IPS\_OutPID\_Data2\_t::RefOut**

Definition at line 2579 of file DCM.idl.

**8.72.5.1598 IPS\_RefTS.t DCM::DeviceControl::IPS\_ServiceData\_Out\_t::RefOut**

Definition at line 4872 of file DCM.idl.

**8.72.5.1599 IPS\_RefTS.t DCM::DeviceControl::IPS\_RefSvc\_t::RefOut**

RefTS of the service TS, not necessarily an output TS as the name wrongly suggests.

Definition at line 4905 of file DCM.idl.

**8.72.5.1600 IPS\_RefTS.t DCM::DeviceControl::RoutingData\_t::RefOut**

Definition at line 30153 of file DCM.idl.

**8.72.5.1601 IPS\_RefTS.t DCM::DeviceControl::End2End\_Delay\_t::RefOut**

Definition at line 30215 of file DCM.idl.

**8.72.5.1602 IPS\_Ref.t DCM::DeviceControl::PortTsSvcProps\_t::RefPhys**

Definition at line 4618 of file DCM.idl.

**8.72.5.1603 IPS\_Ref.t DCM::DeviceControl::InPort\_DvbS2\_PortConfig\_t::RefPhys**

port identifier

Definition at line 7386 of file DCM.idl.

**8.72.5.1604 IPS\_Ref.t DCM::DeviceControl::InPort\_DvbS2\_TunerCfg\_t::RefPhys**

port identifier

Definition at line 7430 of file DCM.idl.

**8.72.5.1605 IPS\_Ref.t DCM::DeviceControl::InPort\_DvbS2\_LncCfg\_t::RefPhys**

port identifier

Definition at line 7485 of file DCM.idl.

**8.72.5.1606 IPS\_Ref.t DCM::DeviceControl::InPort\_DvbS2\_Status\_t::RefPhys**

port identifier

Definition at line 7547 of file DCM.idl.

**8.72.5.1607 IPS\_Ref.t DCM::DeviceControl::InPort\_DvbS2\_Counters\_t::RefPhys**

port identifier

Definition at line 7590 of file DCM.idl.

**8.72.5.1608 IPS\_Ref.t DCM::DeviceControl::DvbS2\_LookupTS\_t::RefPhys**

Identifies the DVB-S2 port.

Definition at line 7650 of file DCM.idl.

**8.72.5.1609 IPS\_Ref.t DCM::DeviceControl::ArpEntry\_t::RefPhys**

Definition at line 18604 of file DCM.idl.

**8.72.5.1610 IPS\_Ref.t DCM::DeviceControl::IP\_Route\_t::RefPhys**

Definition at line 18706 of file DCM.idl.

**8.72.5.1611 IPS\_Ref.t DCM::DeviceControl::IP\_Route\_t\_V2::RefPhys**

Definition at line 18718 of file DCM.idl.

**8.72.5.1612 IPS\_Ref.t DCM::DeviceControl::EndDeviceEntry\_t::RefPhys**

Definition at line 19037 of file DCM.idl.

**8.72.5.1613 IPS\_Ref.t DCM::DeviceControl::IGMPv2MulticastGroup\_t::RefPhys**

Definition at line 20010 of file DCM.idl.

**8.72.5.1614 IPS\_Ref.t DCM::DeviceControl::IGMPv3Group\_t::RefPhys**

Definition at line 20126 of file DCM.idl.

**8.72.5.1615 IPS\_Ref.t DCM::DeviceControl::MM\_MessageTypeSetting::RefPhys**

mask port, port info not relevant

Definition at line 22458 of file DCM.idl.

**8.72.5.1616 IPS\_Ref.t DCM::DeviceControl::MM\_MessageTypeErrorInterval::RefPhys**

mask port, port info not relevant

Definition at line 22847 of file DCM.idl.

**8.72.5.1617 IPS\_Ref.t DCM::DeviceControl::NegotiatedGbePortSpeed\_t::RefPhys**

port identifier

Definition at line 30861 of file DCM.idl.

**8.72.5.1618 IPS\_Ref.t DCM::DeviceControl::VlanPortSet\_t::RefPhysPortSet**

Underlying Physical (GbE) Port Set.

Definition at line 6677 of file DCM.idl.

**8.72.5.1619 IPS\_Service.t DCM::DeviceControl::ServiceBlockCAInfo\_t::RefServ**

Definition at line 4989 of file DCM.idl.

**8.72.5.1620 IPS\_Service.t DCM::DeviceControl::SvcOutES\_TypeSetting\_t::RefServ**

Definition at line 5857 of file DCM.idl.

**8.72.5.1621 IPS\_Service.t DCM::DeviceControl::SvcOutStreamingSetting\_t::RefServ**

Definition at line 6071 of file DCM.idl.

**8.72.5.1622 IPS\_Service.t DCM::DeviceControl::VCT\_SvcInput\_t::RefServ**

Definition at line 9071 of file DCM.idl.

**8.72.5.1623 IPS\_Service.t DCM::DeviceControl::VCT\_SvcSetting\_t::RefServ**

Definition at line 9109 of file DCM.idl.

**8.72.5.1624 IPS\_Service.t DCM::DeviceControl::Svc\_PsipEitRegenerationInfo\_t::RefServ**

Definition at line 9482 of file DCM.idl.

**8.72.5.1625 IPS\_Service.t DCM::DeviceControl::Svc\_PsipEttRegenerationInfo\_t::RefServ**

Definition at line 9494 of file DCM.idl.

**8.72.5.1626 IPS\_Service.t DCM::DeviceControl::ETTV\_ContentSetting\_t::RefServ**

Definition at line 9642 of file DCM.idl.

**8.72.5.1627 IPS\_RefSvc.t DCM::DeviceControl::TC\_ServiceData\_t::RefSvc**

Read only : The RefSvc of this service, either main or PIP (PIP not supported in Version 7.01)

Definition at line 5002 of file DCM.idl.

**8.72.5.1628 IPS\_RefSvc.t DCM::DeviceControl::TC\_ServiceDataV2\_t::RefSvc**

Read only : The RefSvc of this service, either main or PIP (PIP not supported in Version 7.01)

Definition at line 5592 of file DCM.idl.

**8.72.5.1629 IPS\_RefSvc.t DCM::DeviceControl::SvcOutPsipUpdateRule\_t::RefSvc**

Definition at line 8494 of file DCM.idl.

**8.72.5.1630 IPS\_RefSvc.t DCM::DeviceControl::TC\_BannerSettings\_t::RefSvc**

Definition at line 14040 of file DCM.idl.

**8.72.5.1631 IPS\_RefSvc.t DCM::DeviceControl::TC\_ServiceBannerStatus\_t::RefSvc**

Definition at line 14056 of file DCM.idl.

**8.72.5.1632 IPS\_RefSvc.t DCM::DeviceControl::SlateService\_t::RefSvc**

Definition at line 16797 of file DCM.idl.

**8.72.5.1633 IPS\_RefSvc.t DCM::DeviceControl::TR\_ServiceAudioLevel\_t::RefSvc**

Definition at line 16867 of file DCM.idl.

**8.72.5.1634 IPS\_RefSvc\_t DCM::DeviceControl::DescrServiceData\_t::RefSvc**

identifies the service on the descrambler

Definition at line 28081 of file DCM.idl.

**8.72.5.1635 IPS\_RefSvc\_t DCM::DeviceControl::DescrSvcConfig\_t::RefSvc**

identifies the virtual service

Definition at line 28445 of file DCM.idl.

**8.72.5.1636 IPS\_RefSvc\_t DCM::DeviceControl::EsEntry\_t::RefSvcOut**

Definition at line 12869 of file DCM.idl.

**8.72.5.1637 IPS\_RefTS\_t DCM::DeviceControl::Table\_Sync\_Info\_t::RefTS**

input TS where table has to be retrieved from

Definition at line 734 of file DCM.idl.

**8.72.5.1638 IPS\_RefTS\_t DCM::DeviceControl::IPS\_RefPid\_t::RefTS**

The location (slot, port) and stream.

Definition at line 2814 of file DCM.idl.

**8.72.5.1639 IPS\_RefTS\_t DCM::DeviceControl::InTsExistenceReasons\_t::RefTs**

Definition at line 3136 of file DCM.idl.

**8.72.5.1640 IPS\_RefTS\_t DCM::DeviceControl::DvbS2\_RefTS\_t::RefTS**

TS references of the looked up TS. If not found, RefTS.Ref is set to INVALID\_ITF\_REF.

Definition at line 7661 of file DCM.idl.

**8.72.5.1641 IPS\_RefTS\_t DCM::DeviceControl::OutTsStandard\_t::RefTs**

Definition at line 8883 of file DCM.idl.

**8.72.5.1642 IPS\_RefTS\_t DCM::DeviceControl::OutTS\_SttTimeZone\_t::RefTs**

Definition at line 8965 of file DCM.idl.

**8.72.5.1643 IPS\_RefTS\_t DCM::DeviceControl::OutTsServiceLocationAdded\_t::RefTs**

Definition at line 9211 of file DCM.idl.

**8.72.5.1644 IPS\_RefTS\_t DCM::DeviceControl::OutTS\_PsipEitStartPid\_t::RefTs**

Definition at line 9283 of file DCM.idl.

**8.72.5.1645 IPS\_RefTS\_t DCM::DeviceControl::OutTS\_PsipEttStartPid\_t::RefTs**

Definition at line 9291 of file DCM.idl.



**8.72.5.1646 IPS\_RefTS.t DCM::DeviceControl::OutTS\_PsipEttvPid\_t::RefTs**

Definition at line 9573 of file DCM.idl.

**8.72.5.1647 IPS\_RefTS.t DCM::DeviceControl::TS\_PsipMgtInfo\_t::RefTs**

Definition at line 9706 of file DCM.idl.

**8.72.5.1648 IPS\_RefTS.t DCM::DeviceControl::TS\_BitRateMeasurement\_t::RefTS**

Definition at line 9789 of file DCM.idl.

**8.72.5.1649 IPS\_RefTS.t DCM::DeviceControl::TS\_CompBitRateMeasurement\_t::RefTS**

Definition at line 9808 of file DCM.idl.

**8.72.5.1650 IPS\_RefTS.t DCM::DeviceControl::OutTS\_VLAN\_t::RefTs**

Definition at line 18013 of file DCM.idl.

**8.72.5.1651 IPS\_RefTS.t DCM::DeviceControl::OutTS\_TOS\_t::RefTs**

Definition at line 18092 of file DCM.idl.

**8.72.5.1652 IPS\_RefTS.t DCM::DeviceControl::OutTS\_TTL\_t::RefTs**

Definition at line 18252 of file DCM.idl.

**8.72.5.1653 IPS\_RefTS.t DCM::DeviceControl::OutTS\_VBR\_t::RefTs**

Definition at line 18333 of file DCM.idl.

**8.72.5.1654 IPS\_RefTS.t DCM::DeviceControl::OutTS\_UdpSize\_t::RefTs**

Definition at line 18409 of file DCM.idl.

**8.72.5.1655 IPS\_RefTS.t DCM::DeviceControl::OutTS\_FEC\_Enc\_Setting\_V2\_t::RefTS**

Definition at line 19400 of file DCM.idl.

**8.72.5.1656 IPS\_RefTS.t DCM::DeviceControl::TS\_LossTrigger\_t::RefTS**

Definition at line 20912 of file DCM.idl.

**8.72.5.1657 IPS\_RefTS.t DCM::DeviceControl::TsOutSvcSourceSelection\_t::RefTs**

Definition at line 23297 of file DCM.idl.

**8.72.5.1658 IPS\_RefTS.t DCM::DeviceControl::TS\_Tier\_t::RefTS**

Definition at line 27656 of file DCM.idl.

**8.72.5.1659 IPS\_RefTS.t DCM::DeviceControl::DescrTS\_Data\_t::RefTs**

the TS reference assigned by [DescrTS\\_Add\(\)](#)

Definition at line 28198 of file DCM.idl.

**8.72.5.1660 IPS\_RefTS.t DCM::DeviceControl::DescrTS\_Data\_V2\_t::RefTs**

the TS reference assigned by [DescrTS\\_Add\(\)](#)

Definition at line 28222 of file DCM.idl.

**8.72.5.1661 IPS\_RefTS.t DCM::DeviceControl::DescrBISS\_Cfg\_t::RefTS**

reference of the TS on the BISS descrambler.

Definition at line 28771 of file DCM.idl.

**8.72.5.1662 IPS\_RefTS.t DCM::DeviceControl::EasConfig\_t::RefTs**

(Read-only) TS reference assigned to the newly created EAS proxy. This TS reference is to be used in the the SetSI\_Generation call. Note: the client SW should not make any assumptions on how the RefTs is generated. The only assurance is that the same RefTs will be assigned after a reboot.

Definition at line 28993 of file DCM.idl.

**8.72.5.1663 IPS\_RefTS.t DCM::DeviceControl::DCG\_OutputGBE\_t::RefTs**

Definition at line 30133 of file DCM.idl.

**8.72.5.1664 IPS\_RefTS.t DCM::DeviceControl::DCG\_OutputFecGBE\_t::RefTs**

Definition at line 30143 of file DCM.idl.

**8.72.5.1665 IPS\_RefTS.t DCM::DeviceControl::InTS\_TimeBaseSelectionMode\_t::RefTSIn**

Definition at line 2955 of file DCM.idl.

**8.72.5.1666 IPS\_RefTS.t DCM::DeviceControl::InTS\_TimeBaseSelectionMode\_V2\_t::RefTSIn**

Definition at line 2995 of file DCM.idl.

**8.72.5.1667 IPS\_RefTS.t DCM::DeviceControl::ServiceES\_t::RefTSIn**

Definition at line 5866 of file DCM.idl.

**8.72.5.1668 IPS\_RefTS.t DCM::DeviceControl::InTS\_CompactCaMode\_t::RefTSIn**

Definition at line 8116 of file DCM.idl.

**8.72.5.1669 IPS\_RefTS.t DCM::DeviceControl::InTS\_FEC\_Dec\_Setting\_t::RefTSIn**

Definition at line 19130 of file DCM.idl.

**8.72.5.1670 IPS\_RefTS.t DCM::DeviceControl::InTS\_FEC\_Dec\_Statistics\_t::RefTSIn**

Definition at line 19167 of file DCM.idl.

**8.72.5.1671 IPS\_RefTS.t DCM::DeviceControl::InTS\_FEC\_Dec\_Status\_t::RefTSIn**

Definition at line 19190 of file DCM.idl.

**8.72.5.1672 IPS\_RefTS.t DCM::DeviceControl::InTS\_HitlessMergeSetting\_t::RefTSIn**

Definition at line 19683 of file DCM.idl.

**8.72.5.1673 IPS\_RefTS.t DCM::DeviceControl::PCTM\_StreamThresholdSettings\_t::RefTSIn**

Definition at line 20289 of file DCM.idl.

**8.72.5.1674 IPS\_RefTS.t DCM::DeviceControl::PCTM\_StreamPacketCounters\_t::RefTSIn**

Definition at line 20319 of file DCM.idl.

**8.72.5.1675 IPS\_RefTS.t DCM::DeviceControl::InTS\_IPI\_Settings\_t::RefTsIn**

Definition at line 29384 of file DCM.idl.

**8.72.5.1676 IPS\_RefTS.t DCM::DeviceControl::OutTS\_InsertCATDescriptors\_t::RefTsOut**

Definition at line 2928 of file DCM.idl.

**8.72.5.1677 IPS\_RefTS.t DCM::DeviceControl::OutTS\_NitInPat\_t::RefTsOut**

Definition at line 4008 of file DCM.idl.

**8.72.5.1678 IPS\_RefTS.t DCM::DeviceControl::OutTS\_FEC\_Enc\_Setting\_t::RefTSOut**

Definition at line 19379 of file DCM.idl.

**8.72.5.1679 IPS\_RefTS.t DCM::DeviceControl::OutTS\_FEC\_Enc\_ErrorGen\_t::RefTSOut**

Definition at line 19446 of file DCM.idl.

**8.72.5.1680 IPS\_RefTS.t DCM::DeviceControl::OutTS\_FEC\_Enc\_Overhead\_t::RefTSOut**

Definition at line 19461 of file DCM.idl.

**8.72.5.1681 IPS\_Ref.t DCM::DeviceControl::VlanPortSet\_t::RefVlanPortSet**

Handle to identify a VlanPortSet.

If you need to access the Vlan Interface themselves, the [IPS\\_Ref.t](#) of the main vlan Interface equals Ref-VlanPortSet, and the Backup Vlan Interface has a port number one higher. RO field

Definition at line 6682 of file DCM.idl.

**8.72.5.1682 string DCM::DeviceControl::IpServiceDisplayData::RemoteIp**

Remote IP address or 0.0.0.0 (any)

Definition at line 24642 of file DCM.idl.

**8.72.5.1683 boolean DCM::DeviceControl::LogoCfg\_t::RemoteLogo**

Is the logo locally or remotely stored.

Definition at line 13827 of file DCM.idl.

**8.72.5.1684 unsigned short DCM::DeviceControl::IpServiceDisplayData::RemotePort**

0 or port number in case of established connection

Definition at line 24644 of file DCM.idl.

**8.72.5.1685** unsigned long long DCM::DeviceControl::FEC\_Dec\_Statistics\_t::ReorderedPacket-Count

Definition at line 19160 of file DCM.idl.

**8.72.5.1686** unsigned long long DCM::DeviceControl::PCTM\_PacketCounters\_t::ReorderedPackets

Definition at line 20311 of file DCM.idl.

**8.72.5.1687** unsigned long DCM::DeviceControl::SMX\_MFP\_TsSettings\_t::ReservedBitrate

reserved bitrate for this TS (for instance reserved for TS PIDs) In bits per second. Range: from 0 to 1 Gbps.

Definition at line 16179 of file DCM.idl.

**8.72.5.1688** unsigned long DCM::DeviceControl::SMX\_MFP\_SvcSettings\_t::ReservedBitrate

reserved for future use: has to be filled in with 0.

Definition at line 16235 of file DCM.idl.

**8.72.5.1689** unsigned long DCM::DeviceControl::SMX\_MFP\_SvcSettings\_V2\_t::ReservedBitrate

reserved for future use: has to be filled in with 0.

Definition at line 16261 of file DCM.idl.

**8.72.5.1690** MFPB\_VideoResolution\_t DCM::DeviceControl::MFPB\_VideoStatus\_t::Resolution

Output resolution.

Definition at line 10637 of file DCM.idl.

**8.72.5.1691** TC\_VideoResolution\_t DCM::DeviceControl::TC\_VideoStatus\_t::Resolution

Definition at line 13083 of file DCM.idl.

**8.72.5.1692** enMFPB\_Resources DCM::DeviceControl::ResourcesLoad\_t::Resources

The type of resources.

Definition at line 10309 of file DCM.idl.

**8.72.5.1693** boolean DCM::DeviceControl::DeviceBackupParams\_t::Revertive

True if the device should automatically revert to main when possible.

Definition at line 21148 of file DCM.idl.

**8.72.5.1694** boolean DCM::DeviceControl::TS\_BackupParams\_t::Revertive

Definition at line 21743 of file DCM.idl.

**8.72.5.1695** boolean DCM::DeviceControl::ServiceBackupParams\_t::Revertive

Definition at line 23042 of file DCM.idl.

**8.72.5.1696 eDBURevertMode DCM::DeviceControl::DeviceBackupParamsV2\_t::RevertMode**

Revertive mode.

Definition at line 21170 of file DCM.idl.

**8.72.5.1697 IPS\_RefTS.t DCM::DeviceControl::DCG\_3D\_pair\_t::right**

Definition at line 30223 of file DCM.idl.

**8.72.5.1698 enDCG\_AudioResolution.t DCM::DeviceControl::DCG\_AudioSignalInfo\_t::RightCh-Coding**

Resolution of audio right channel.

Definition at line 31211 of file DCM.idl.

**8.72.5.1699 SNMPOperationRights DCM::DeviceControl::SNMPCommunity::Rights**

Definition at line 1166 of file DCM.idl.

**8.72.5.1700 string DCM::DeviceControl::RipInterfaceSettings::RouterAddress**

Router address, one of [224.0.0.9, 224.0.0.2, 255.255.255.255, unicast address in subnet], default 224.0.-0.9.

Definition at line 31965 of file DCM.idl.

**8.72.5.1701 unsigned short DCM::DeviceControl::RipSettings\_t::RouteTag**

Value for the Route tag field. Range [0, 65535], default 0.

Definition at line 31929 of file DCM.idl.

**8.72.5.1702 eDestRoutingStatus DCM::DeviceControl::EndDeviceEntry\_t::RoutingStatus**

routable or not

Definition at line 19035 of file DCM.idl.

**8.72.5.1703 IPS\_UDP\_Socket.t DCM::DeviceControl::DCG\_OutputFecGBE\_t::row**

Destination UDP socket for FEC ROW.

Definition at line 30144 of file DCM.idl.

**8.72.5.1704 IPS\_UDP\_Socket.t DCM::DeviceControl::FEC\_Dec\_Setting\_t::RowFEC**

Definition at line 19123 of file DCM.idl.

**8.72.5.1705 IPS\_UDP\_Socket.t DCM::DeviceControl::FEC\_Enc\_Setting\_t::RowFEC**

for 4.0 release, IP = IP TS and UDP = UDP TS + 4

Definition at line 19371 of file DCM.idl.

**8.72.5.1706 unsigned short DCM::DeviceControl::InTS\_FEC\_Dec\_DefRuleSetting\_t::RowFEC-Offset**

Definition at line 19150 of file DCM.idl.

**8.72.5.1707 unsigned short DCM::DeviceControl::FEC\_Dec\_Status\_t::RowFEC\_Overhead**

in percentage fixed point 2 digit (x100)

Definition at line 19182 of file DCM.idl.

**8.72.5.1708 unsigned short DCM::DeviceControl::FEC\_Enc\_Overhead\_t::RowFEC\_Overhead**

in percentage fixed point 2 digit (x100), e.g. 10% -> 1000

Definition at line 19454 of file DCM.idl.

**8.72.5.1709 boolean DCM::DeviceControl::FEC\_Dec\_Status\_t::RowFEC\_Present**

Definition at line 19178 of file DCM.idl.

**8.72.5.1710 unsigned short DCM::DeviceControl::OutTS\_FEC\_Enc\_DefSetting\_t::RowFecOffset**

default value row offset = 4 (fixed for 4.0 release)

Definition at line 19416 of file DCM.idl.

**8.72.5.1711 unsigned long long DCM::DeviceControl::InPort\_8VSB\_Statistics\_t::RS\_FEC\_Clean**

Number of clean RS blocks.

Definition at line 7124 of file DCM.idl.

**8.72.5.1712 unsigned long long DCM::DeviceControl::InPort\_8VSB\_Statistics\_t::RS\_FEC\_Correctable**

Number of correctable RS FEC errors.

Definition at line 7122 of file DCM.idl.

**8.72.5.1713 unsigned long long DCM::DeviceControl::InPort\_8VSB\_Statistics\_t::RS\_FEC\_Uncorrectable**

Number of uncorrectable RS FEC errors.

Definition at line 7123 of file DCM.idl.

**8.72.5.1714 unsigned long long DCM::DeviceControl::InPort\_DvbS2\_Counters\_t::RS\_Uncorrected-Errors**

Definition at line 7592 of file DCM.idl.

**8.72.5.1715 eRTP DCM::DeviceControl::IPS\_OutTS\_RTP\_t::RTPOnOff**

Definition at line 17916 of file DCM.idl.

**8.72.5.1716 unsigned long DCM::DeviceControl::DCG\_HitlessSwitchOverEnable\_t::RtpPackets-Window**

Definition at line 31503 of file DCM.idl.

**8.72.5.1717 octet DCM::DeviceControl::PspipUpdateRule\_t::Rule**

Definition at line 8485 of file DCM.idl.

**8.72.5.1718 string DCM::DeviceControl::PsipUpdateRule\_t::RuleData**

Definition at line 8488 of file DCM.idl.

**8.72.5.1719 string DCM::DeviceControl::PsipUpdateRule\_t::RuleName**

Definition at line 8486 of file DCM.idl.

**8.72.5.1720 DescriptorRuleList\_t DCM::DeviceControl::DescriptorRuleSet\_t::RulesList**

Definition at line 7846 of file DCM.idl.

**8.72.5.1721 boolean DCM::DeviceControl::ScriptEntry\_t::Running**

Whether script is currently running.

Definition at line 31757 of file DCM.idl.

**8.72.5.1722 eRunningStatus DCM::DeviceControl::IPS\_SDT\_Data\_t::RunStatusIn**

RO provides running status of input.

Definition at line 4857 of file DCM.idl.

**8.72.5.1723 eRunningStatus DCM::DeviceControl::IPS\_SDT\_Data\_t::RunStatusOut**

RW (Transparent or configurable status)

Definition at line 4858 of file DCM.idl.

**8.72.5.1724 GbEFramesRecv\_t DCM::DeviceControl::GbEStatisticsEntry\_t::Rx**

Definition at line 19903 of file DCM.idl.

**8.72.5.1725 eDvbS2\_RxMode\_t DCM::DeviceControl::InPort\_DvbS2\_PortConfig\_t::RxMode**

single stream of multi-stream mode.

Definition at line 7387 of file DCM.idl.

**8.72.5.1726 SMX36\_PoolSafeRateMode\_e DCM::DeviceControl::SMX36\_Pool\_t::SafeRateMode**

Safe rate mode defines the rate the VSE must fall back on if communication fails to statmux controller.

Definition at line 23792 of file DCM.idl.

**8.72.5.1727 SMX36\_PoolSafeRateMode\_e DCM::DeviceControl::SMX36\_Pool\_V2\_t::SafeRateMode**

Safe rate mode defines the rate the VSE must fall back on if communication fails to statmux controller.

Definition at line 23812 of file DCM.idl.

**8.72.5.1728 BitRateSampleList\_t DCM::DeviceControl::ServiceBitRateSample\_t::Sample**

Definition at line 9840 of file DCM.idl.

**8.72.5.1729 BitRateSampleList\_t DCM::DeviceControl::TRBitRateSample\_t::Sample**

Definition at line 9850 of file DCM.idl.

**8.72.5.1730** `enMFPB_AudioStatusSampleRate_t DCM::DeviceControl::MFPB_AudioStatus_t::SampleRate`

Definition at line 11614 of file DCM.idl.

**8.72.5.1731** `unsigned long DCM::DeviceControl::DCG_AudioSignalInfo_t::SampleRate`

Sample rate (Hz)

Definition at line 31208 of file DCM.idl.

**8.72.5.1732** `unsigned long DCM::DeviceControl::InPort_DvbS2_TunerCfg_t::SatFrequency`

in KHz

Definition at line 7432 of file DCM.idl.

**8.72.5.1733** `enPSBSocketType DCM::DeviceControl::IpServiceDisplayData::SckType`

Tcp, udp, tcp6, udp6, ...

Definition at line 24639 of file DCM.idl.

**8.72.5.1734** `unsigned long DCM::DCM_Notifications::Output_TS_Change::ScrambableServices-Available`

when true, same as [DCM\\_TsIdOnIdChange](#)

Definition at line 32280 of file DCM.idl.

**8.72.5.1735** `unsigned short DCM::DeviceControl::ASI_DTF_Ex_t::ScramblingKeyIndex`

Index into the scrambling key list, should be less than 1024, used when not overridden by the global default.

Definition at line 22009 of file DCM.idl.

**8.72.5.1736** `eASI_DTF_ScramblingType DCM::DeviceControl::ASI_DTF_Ex_t::ScramblingType`

Input level scrambling type setting, used when not overridden by the global type.

Definition at line 22010 of file DCM.idl.

**8.72.5.1737** `unsigned long DCM::DeviceControl::ScriptEntry_t::ScriptId`

The Id assigned to this script.

Definition at line 31754 of file DCM.idl.

**8.72.5.1738** `string DCM::DeviceControl::ScriptEntry_t::ScriptName`

The unique name of the script.

Definition at line 31755 of file DCM.idl.

**8.72.5.1739** `unsigned short DCM::DeviceControl::ScriptEntry_t::ScriptVersion`

The version of the script, several versions of the same script can be installed.

Definition at line 31756 of file DCM.idl.



**8.72.5.1740 eScte35Source DCM::DeviceControl::Sete35Source\_t::Sete35Source**

The source of which the SCTE35 messages < should be processed.

Definition at line 17819 of file DCM.idl.

**8.72.5.1741 unsigned long DCM::DeviceControl::TC\_VideoEncodeSettings\_t::SD\_Bitrate**

1.0 - 3.5Mbps, in bps. (Used whenever the input is SD, even if HD\_Service is true).

Definition at line 13015 of file DCM.idl.

**8.72.5.1742 unsigned long DCM::DeviceControl::TC\_VideoSettings\_t::SD\_Bitrate**

1.0 - 3.5Mbps, in bps. (Used whenever the input is SD, even if HD\_Service is true).

Definition at line 13064 of file DCM.idl.

**8.72.5.1743 unsigned long DCM::DeviceControl::TC\_BoardCfg\_t::SD\_Slots**

Definition at line 12834 of file DCM.idl.

**8.72.5.1744 unsigned long DCM::DeviceControl::TC\_BoardCfg\_V2\_t::SD\_Slots**

Definition at line 12852 of file DCM.idl.

**8.72.5.1745 MFPB\_VideoEncoderTemplate\_t DCM::DeviceControl::MFPB\_VideoEncodeSettings\_t::SdOutputEncoderTemplate**

Template for SD output.

Definition at line 11010 of file DCM.idl.

**8.72.5.1746 MFPB\_VideoEncoderTemplate\_t DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t::SdOutputEncoderTemplate**

Template for SD output.

Definition at line 11180 of file DCM.idl.

**8.72.5.1747 IPS\_SDT\_Data\_t DCM::DeviceControl::IPS\_ServiceData\_Out\_t::SDTData**

Definition at line 4893 of file DCM.idl.

**8.72.5.1748 IPS\_SDT\_Data\_t DCM::DeviceControl::IPS\_ServiceData\_Out\_V2\_t::SDTData**

Definition at line 4945 of file DCM.idl.

**8.72.5.1749 IPS\_SDT\_Data\_t DCM::DeviceControl::IPS\_ServiceData\_Out\_V3\_t::SDTData**

Definition at line 4976 of file DCM.idl.

**8.72.5.1750 unsigned long DCM::DeviceControl::DPI\_Time\_t::sec**

Definition at line 17079 of file DCM.idl.

**8.72.5.1751 octet DCM::DeviceControl::Time::Second**

From 0 to 59.

Definition at line 464 of file DCM.idl.

**8.72.5.1752 unsigned long DCM::DeviceControl::MFPB\_MultiResABR\_t::SegmentLength**

Segment length in seconds (range: 1 to 60)

Definition at line 11055 of file DCM.idl.

**8.72.5.1753 sequence<MultipleStringSegment\_t> DCM::DeviceControl::MultipleStringElement\_t::Segments**

Definition at line 8837 of file DCM.idl.

**8.72.5.1754 boolean DCM::DeviceControl::MFPB\_MultiResABR\_t::SegmentsEnabled**

Enable ABR syncing via Segments.

Definition at line 11053 of file DCM.idl.

**8.72.5.1755 SelectionId\_t DCM::DeviceControl::SelectionListEntry\_t::SelectionId**

Definition at line 12880 of file DCM.idl.

**8.72.5.1756 SelectionList\_t DCM::DeviceControl::TC\_Question\_t::SelectionList**

Definition at line 12889 of file DCM.idl.

**8.72.5.1757 boolean DCM::DeviceControl::Scte35Data\_Network\_active\_t::SelectService**

Definition at line 8640 of file DCM.idl.

**8.72.5.1758 eFECSendingArrangement DCM::DeviceControl::FEC\_Enc\_Setting\_t::SendingArrangement**

for 4.0 release, SendingArrangement must always be ePRO\_MPEG\_COP3\_ANNEX\_B

Definition at line 19369 of file DCM.idl.

**8.72.5.1759 eFECSendingArrangement DCM::DeviceControl::FEC\_Enc\_Setting\_V2\_t::SendingArrangement**

for 4.0 release, SendingArrangement must always be ePRO\_MPEG\_COP3\_ANNEX\_B

Definition at line 19392 of file DCM.idl.

**8.72.5.1760 eFECSendingArrangement DCM::DeviceControl::OutTS\_FEC\_Enc\_DefSetting\_t::SendingArrangement**

for 4.0 release, SendingArrangement must always be ePRO\_MPEG\_COP3\_ANNEX\_B

Definition at line 19413 of file DCM.idl.

**8.72.5.1761 string DCM::DeviceControl::BoardIdentification::SerialNumber**

Definition at line 1285 of file DCM.idl.

**8.72.5.1762 sequence<string> DCM::DeviceControl::DPI\_ChannelStatus\_t::Servers**

Each string contains an IP address plus insertion channel information.

Definition at line 17070 of file DCM.idl.

**8.72.5.1763 IPS\_Service\_In\_t DCM::DeviceControl::IPS\_ServiceData\_Out\_t::Service**

Reference to the incoming service.

Definition at line 4894 of file DCM.idl.

**8.72.5.1764 IPS\_Service\_t DCM::DeviceControl::IPS\_Service\_In\_V2\_t::Service**

Definition at line 4918 of file DCM.idl.

**8.72.5.1765 IPS\_Service\_t DCM::DeviceControl::IPS\_MergedInService\_t::Service**

Definition at line 5216 of file DCM.idl.

**8.72.5.1766 IPS\_Service\_t DCM::DeviceControl::ServiceBitRateMeasurement\_t::Service**

Definition at line 9799 of file DCM.idl.

**8.72.5.1767 IPS\_Service\_t DCM::DeviceControl::ServiceCompBitRateMeasurement\_t::Service**

Definition at line 9819 of file DCM.idl.

**8.72.5.1768 IPS\_Service\_t DCM::DeviceControl::ServiceBitRateSample\_t::Service**

Definition at line 9839 of file DCM.idl.

**8.72.5.1769 IPS\_RefSvc\_t DCM::DeviceControl::MFPB\_ServiceCfg\_t::Service**

Definition at line 10421 of file DCM.idl.

**8.72.5.1770 IPS\_RefSvc\_t DCM::DeviceControl::MFPB\_ServiceTrackingID\_t::Service**

Definition at line 10552 of file DCM.idl.

**8.72.5.1771 IPS\_RefSvc\_t DCM::DeviceControl::MFPB\_ServiceComponents\_t::Service**

Definition at line 10566 of file DCM.idl.

**8.72.5.1772 IPS\_RefSvc\_t DCM::DeviceControl::MFPB\_VideoServiceInformation\_t::Service**

Definition at line 10653 of file DCM.idl.

**8.72.5.1773 IPS\_RefSvc\_t DCM::DeviceControl::MFPB\_VideoDecodeCfg\_t::Service**

Definition at line 10687 of file DCM.idl.

**8.72.5.1774 IPS\_RefSvc\_t DCM::DeviceControl::MFPB\_VideoEncodeCfg\_t::Service**

Definition at line 11043 of file DCM.idl.

**8.72.5.1775 IPS\_RefSvc\_t DCM::DeviceControl::MFPB\_MultiResABR\_t::Service**

Main MFP service reference.

Definition at line 11051 of file DCM.idl.

**8.72.5.1776 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_VideoEncodeCfgV2\_t::Service**

Definition at line 11218 of file DCM.idl.

**8.72.5.1777 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_MultiResVideoEncodeCfg\_t::Service**

MultRes service reference.

Definition at line 11378 of file DCM.idl.

**8.72.5.1778 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_AudioServiceInformation\_t::Service**

Definition at line 11628 of file DCM.idl.

**8.72.5.1779 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_AudioDecodeCfg\_t::Service**

Definition at line 11669 of file DCM.idl.

**8.72.5.1780 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_AudioEncodeCfg\_t::Service**

Definition at line 11794 of file DCM.idl.

**8.72.5.1781 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_MPEGL2AudioCfg\_t::Service**

Definition at line 11873 of file DCM.idl.

**8.72.5.1782 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_AacAudioCfg\_t::Service**

Definition at line 11985 of file DCM.idl.

**8.72.5.1783 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_DolbyAudioCfg\_t::Service**

Definition at line 12148 of file DCM.idl.

**8.72.5.1784 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_DolbyAudioCfg\_V2\_t::Service**

Definition at line 12319 of file DCM.idl.

**8.72.5.1785 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_AudioDecodeExtraMPEGL2Cfg\_t::Service**

Definition at line 12404 of file DCM.idl.

**8.72.5.1786 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_AudioDecodeExtraAACCfg\_t::Service**

Definition at line 12472 of file DCM.idl.

**8.72.5.1787 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbyCfg\_t::Service**

Definition at line 12564 of file DCM.idl.

**8.72.5.1788 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_Svc\_CaptionInfo\_t::Service**

Definition at line 12626 of file DCM.idl.

**8.72.5.1789 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_ServiceDD\_MetaDecStatus\_t::Service**

Definition at line 12722 of file DCM.idl.

**8.72.5.1790 IPS\_RefSvc.t DCM::DeviceControl::MFPB\_ServiceMetaDataCfg\_t::Service**

Definition at line 12777 of file DCM.idl.

**8.72.5.1791 IPS\_RefSvc.t DCM::DeviceControl::TC\_ServiceTrackingID\_t::Service**

Definition at line 13002 of file DCM.idl.

**8.72.5.1792 IPS\_RefSvc.t DCM::DeviceControl::TC\_ServiceCfg\_t::Service**

Definition at line 13172 of file DCM.idl.

**8.72.5.1793 IPS\_RefSvc.t DCM::DeviceControl::TC\_VideoDecodeCfg\_t::Service**

Definition at line 13183 of file DCM.idl.

**8.72.5.1794 IPS\_RefSvc.t DCM::DeviceControl::TC\_VideoEncodeCfg\_t::Service**

Definition at line 13190 of file DCM.idl.

**8.72.5.1795 IPS\_RefSvc.t DCM::DeviceControl::TC\_VideoCfg\_t::Service**

Definition at line 13197 of file DCM.idl.

**8.72.5.1796 IPS\_RefSvc.t DCM::DeviceControl::TC\_VideoServiceInformation\_t::Service**

Definition at line 13204 of file DCM.idl.

**8.72.5.1797 IPS\_RefSvc.t DCM::DeviceControl::TC\_PipCfg\_t::Service**

Definition at line 13211 of file DCM.idl.

**8.72.5.1798 IPS\_RefSvc.t DCM::DeviceControl::TC\_AudioCfg\_t::Service**

Definition at line 13218 of file DCM.idl.

**8.72.5.1799 IPS\_RefSvc.t DCM::DeviceControl::TC\_AudioServiceInformation\_t::Service**

Definition at line 13225 of file DCM.idl.

**8.72.5.1800 IPS\_RefSvc.t DCM::DeviceControl::TC\_ServiceComponents\_t::Service**

Definition at line 13239 of file DCM.idl.

**8.72.5.1801 IPS\_RefSvc.t DCM::DeviceControl::TC\_Svc\_CaptionInfo\_t::Service**

Definition at line 13260 of file DCM.idl.

**8.72.5.1802 IPS\_RefSvc.t DCM::DeviceControl::TC\_Logo\_t::Service**

Definition at line 14073 of file DCM.idl.

**8.72.5.1803 IPS\_RefSvc.t DCM::DeviceControl::TC\_ServiceLogoDisplay\_t::Service**

Definition at line 14088 of file DCM.idl.

**8.72.5.1804 IPS\_RefSvc\_t DCM::DeviceControl::TC\_LogoCfg\_t::Service**

Definition at line 14095 of file DCM.idl.

**8.72.5.1805 IPS\_RefSvc\_t DCM::DeviceControl::TC\_LogoKeyerID\_t::Service**

read-only

Definition at line 14105 of file DCM.idl.

**8.72.5.1806 IPS\_RefSvc\_t DCM::DeviceControl::TC\_ServiceLogoCfgID\_t::Service**

Definition at line 14114 of file DCM.idl.

**8.72.5.1807 IPS\_Service\_t DCM::DeviceControl::TR\_Service\_t::Service**

The output service reference.

Definition at line 15005 of file DCM.idl.

**8.72.5.1808 TR\_Service\_t DCM::DeviceControl::TR\_ServiceSettings\_t::Service**

The service reference.

Definition at line 15011 of file DCM.idl.

**8.72.5.1809 TR\_Service\_t DCM::DeviceControl::TR\_ServiceSettings\_V2\_t::Service**

The service reference.

Definition at line 15456 of file DCM.idl.

**8.72.5.1810 IPS\_Service\_t DCM::DeviceControl::ServiceLossTrigger\_t::service**

Definition at line 20846 of file DCM.idl.

**8.72.5.1811 eExtIpServices DCM::DeviceControl::ExtIpServiceCtrl::Service**

Definition at line 24575 of file DCM.idl.

**8.72.5.1812 Serviceld\_t DCM::DeviceControl::DescrServiceData\_t::ServiceID**

service ID (for future use)

Definition at line 28082 of file DCM.idl.

**8.72.5.1813 IPS\_RefSvc\_t DCM::DeviceControl::ComponentMergeCriterium\_t::ServiceIn**

Definition at line 5070 of file DCM.idl.

**8.72.5.1814 unsigned long DCM::DeviceControl::IPS\_Service\_In\_t::ServiceInProperty**

Read only Bitmap used by GUI to display specific icons (.

**See also**

[BITMAP\\_INPUT\\_PRESENT](#) etc.) < Bit 0: TRUE if Service is present in input TS < Bit 3: TRUE if Service Loss Alarm is active. < Bit 4: TRUE if at least one of the input PIDs is scrambled < Bit 31: TRUE if Service contains VBI (future) (same bit as in [TC\\_ServiceData\\_t](#)) <

**Note**

: present or not present is based on SI.

Definition at line 4744 of file DCM.idl.

**8.72.5.1815 TC\_ServiceLogoID.t DCM::DeviceControl::TC\_LogoSetting\_t::ServiceLogoID**

Definition at line 14065 of file DCM.idl.

**8.72.5.1816 TC\_ServiceLogoID.t DCM::DeviceControl::TC\_LogoDisplay\_t::ServiceLogoID**

Definition at line 14080 of file DCM.idl.

**8.72.5.1817 TC\_ServiceLogoID.t DCM::DeviceControl::TC\_LogoCfg\_t::ServiceLogoID**

Definition at line 14096 of file DCM.idl.

**8.72.5.1818 TC\_ServiceLogoID.t DCM::DeviceControl::TC\_LogoKeyerID\_t::ServiceLogoID**

read-only

Definition at line 14106 of file DCM.idl.

**8.72.5.1819 TC\_ServiceLogoID.t DCM::DeviceControl::TC\_ServiceLogoCfgID\_t::ServiceLogoID**

Definition at line 14115 of file DCM.idl.

**8.72.5.1820 DvbString.t DCM::DeviceControl::SMX\_Service\_t::ServiceName**

Definition at line 23490 of file DCM.idl.

**8.72.5.1821 IPS\_RefSvc.t DCM::DeviceControl::IPS\_ServiceData\_Out\_V2\_t::ServiceOut**

Identifies the output service.

Definition at line 4926 of file DCM.idl.

**8.72.5.1822 IPS\_RefSvc.t DCM::DeviceControl::IPS\_ServiceData\_Out\_V3\_t::ServiceOut**

Identifies the output service.

Definition at line 4957 of file DCM.idl.

**8.72.5.1823 unsigned long DCM::DeviceControl::IPS\_ServiceData\_Out\_t::ServiceOutProperty**

Read only Bitmap used by GUI to display specific icons (.).

**See also**

[BITMAP\\_INPUT\\_PRESENT](#) etc.) < Bit 0: [Service](#) present at input (true) or not (false). < Bit 1: [Service](#) scrambled by DCM (true) < Bit 2: [Service](#) Active (Session Based) < Bit 3: [Service](#) is merged by DCM < Bit 4: at least one of the source input PIDs of this service is scrambled < Bit 5: TRUE if output service is in [Backup](#) < Bit 6: TRUE if output service loss is active < Bit 7: True if output service is streaming < Bit 8: True if [Service](#) Redundancy Alarm is active < Other bits for future use.

Definition at line 4877 of file DCM.idl.

**8.72.5.1824 unsigned long DCM::DeviceControl::IPS\_ServiceData\_Out\_V2\_t::ServiceOutProperty**

Read only Bitmap used by GUI to display specific icons < Bit 0: Service present at input (true) or not (false). < Bit 1: Service scrambled by [DCM](#) (true means scrambled) < Bit 2: Service Active (Session - Based) < Bit 3: Service is merged < Bit 4: at least one of the source input PIDs of this service is scrambled < Bit 5: True if output service is in backup < Bit 6: True if output service loss is active < Bit 7: True if output service is streaming < Bit 8: True if Service Redundancy Alarm is active < Other bits for future use.

Definition at line 4929 of file DCM.idl.

**8.72.5.1825 unsigned long DCM::DeviceControl::IPS\_ServiceData\_Out\_V3\_t::ServiceOutProperty**

Read only Bitmap used by GUI to display specific icons < Bit 0: Service present at input (true) or not (false). < Bit 1: Service scrambled by [DCM](#) (true means scrambled) < Bit 2: Service Active (Session - Based) < Bit 3: Service is merged < Bit 4: at least one of the source input PIDs of this service is scrambled < Bit 5: True if output service is in backup < Bit 6: True if output service loss is active < Bit 7: True if output service is streaming < Bit 8: True if Service Redundancy Alarm is active < Other bits for future use.

Definition at line 4960 of file DCM.idl.

**8.72.5.1826 unsigned long DCM::DeviceControl::IPS\_MergedInService\_t::ServiceProperty**

Definition at line 5217 of file DCM.idl.

**8.72.5.1827 DvbString.t DCM::DeviceControl::IPS\_SDT\_Data\_t::ServiceProviderNameIn**

Definition at line 4864 of file DCM.idl.

**8.72.5.1828 DvbString.t DCM::DeviceControl::IPS\_SDT\_Data\_t::ServiceProviderNameOut**

Definition at line 4865 of file DCM.idl.

**8.72.5.1829 SMX\_ServiceRef.t DCM::DeviceControl::SMX\_EncVideoBitRate\_t::ServiceRef**

Definition at line 23587 of file DCM.idl.

**8.72.5.1830 boolean DCM::DeviceControl::TS\_AutoPassRulesDisableFlags::ServiceRuleDisabled**

read-only; true = the service rule is disabled by system; false the service rule can be configured by the user;

Definition at line 2874 of file DCM.idl.

**8.72.5.1831 TR\_ServiceSettings\_List.t DCM::DeviceControl::TR\_GroupServiceSettings\_t::ServiceSettingsList**

Definition at line 15025 of file DCM.idl.

**8.72.5.1832 TR\_ServiceSettings\_V2\_List.t DCM::DeviceControl::TR\_GroupServiceSettings\_V2\_t::ServiceSettingsList**

Definition at line 15473 of file DCM.idl.

**8.72.5.1833 eVctServiceType DCM::DeviceControl::VCT\_Data\_t::ServiceType**

see VCT\_SERVICETYPE\_xxxx



Definition at line 9064 of file DCM.idl.

#### **8.72.5.1834 eServiceType DCM::DeviceControl::IPS\_SDT\_Data\_t::ServiceTypeIn**

RO provides service type of input.

Definition at line 4859 of file DCM.idl.

#### **8.72.5.1835 eServiceType DCM::DeviceControl::IPS\_SDT\_Data\_t::ServiceTypeOut**

RW (Transparent or configurable)

Definition at line 4860 of file DCM.idl.

#### **8.72.5.1836 enStreamingSetting\_t DCM::DeviceControl::IPS\_OutputTS\_V2\_t::Setting**

Streaming setting of the outgoing TS.

- ASI port - Auto will stop streaming as long as TS Out Stream loss alarm is active.
- Gbe port - Auto will stop streaming as long as TS Out Stream loss alarm is active.
- ASI port in DTF - Auto will behave similar as On.

Definition at line 2504 of file DCM.idl.

#### **8.72.5.1837 enStreamingSetting\_t DCM::DeviceControl::IPS\_OutputTS\_LT\_V2\_t::Setting**

Streaming setting of the outgoing TS.

- Auto will behave similar as On.

Definition at line 4479 of file DCM.idl.

#### **8.72.5.1838 VCT\_Data\_t DCM::DeviceControl::VCT\_SvcSetting\_t::Setting**

Definition at line 9110 of file DCM.idl.

#### **8.72.5.1839 VCT\_SvcSetting\_t DCM::DeviceControl::VCT\_SvcData\_t::Setting**

Definition at line 9122 of file DCM.idl.

#### **8.72.5.1840 ETTV\_ContentSetting\_t DCM::DeviceControl::ETTV\_ContentData\_t::Setting**

Definition at line 9655 of file DCM.idl.

#### **8.72.5.1841 MFPB\_VideoEncodeSettings\_t DCM::DeviceControl::MFPB\_VideoEncode\_t::Settings**

Definition at line 11037 of file DCM.idl.

#### **8.72.5.1842 MFPB\_VideoEncodeSettingsV2\_t DCM::DeviceControl::MFPB\_VideoEncodeV2\_t::Settings**

Definition at line 11212 of file DCM.idl.

#### **8.72.5.1843 MFPB\_MultiResVideoEncodeSettings\_t DCM::DeviceControl::MFPB\_MultiResVideoEncode\_t::Settings**

Definition at line 11372 of file DCM.idl.

**8.72.5.1844 MFPB\_AudioEncodeSettings.t DCM::DeviceControl::MFPB\_AudioEncode\_t::Settings**

Definition at line 11788 of file DCM.idl.

**8.72.5.1845 TC\_VideoEncodeSettings.t DCM::DeviceControl::TC\_VideoEncode\_t::Settings**

Definition at line 13048 of file DCM.idl.

**8.72.5.1846 TC\_VideoSettings.t DCM::DeviceControl::TC\_Video\_t::Settings**

Definition at line 13097 of file DCM.idl.

**8.72.5.1847 TC\_PipSettings.t DCM::DeviceControl::TC\_Pip\_t::Settings**

Definition at line 13125 of file DCM.idl.

**8.72.5.1848 TC\_AudioSettings.t DCM::DeviceControl::TC\_Audio\_t::Settings**

Definition at line 13153 of file DCM.idl.

**8.72.5.1849 RipSettings.t DCM::DeviceControl::RipTsSettings\_t::Settings**

Definition at line 32000 of file DCM.idl.

**8.72.5.1850 boolean DCM::DeviceControl::GPI\_StatusControl\_t::SettingsChanged**

gpi pin configuration changed

Definition at line 31587 of file DCM.idl.

**8.72.5.1851 unsigned long long DCM::DeviceControl::InPort\_DvbS2\_Counters\_t::SeverelyErrored-Seconds**

Definition at line 7594 of file DCM.idl.

**8.72.5.1852 eRoutingStatusSeverity DCM::DeviceControl::RoutingStatusRecord\_t::Severity**

Warning, Error, Fatal.

Definition at line 2802 of file DCM.idl.

**8.72.5.1853 MsgSeverity DCM::DeviceControl::MM\_MessageMainPart::Severity**

Definition at line 22321 of file DCM.idl.

**8.72.5.1854 MsgSeverity DCM::DeviceControl::MessageSetting::Severity**

will be used for the binary messages.

Definition at line 22448 of file DCM.idl.

**8.72.5.1855 DvbString.t DCM::DeviceControl::VCT\_Data\_t::ShortName**

setting: actually the service user name < status: the short name as taken from input

Definition at line 9052 of file DCM.idl.

**8.72.5.1856 DPI\_ShortChannelStatus\_t DCM::DeviceControl::DPI\_ChannelStatus\_t::shortStatus**

Definition at line 17069 of file DCM.idl.

**8.72.5.1857 boolean DCM::DeviceControl::TC\_LogoSetting\_t::ShowLogoStatus**

Is the logo currently show in the video?

Definition at line 14067 of file DCM.idl.

**8.72.5.1858 unsigned long DCM::DeviceControl::CompPidES\_t::Sid**

Value of the SID at the output TS.

Definition at line 2827 of file DCM.idl.

**8.72.5.1859 unsigned long DCM::DeviceControl::CompPidES\_V2\_t::Sid**

Value of the SID at the output TS.

Definition at line 2841 of file DCM.idl.

**8.72.5.1860 unsigned long DCM::DeviceControl::TimeBaseSelectionMode\_t::SID**

Only for eTBS\_ForcedPCR: the ServiceId to be used/that is in use.

Definition at line 2948 of file DCM.idl.

**8.72.5.1861 unsigned long DCM::DeviceControl::TimeBaseSelectionMode\_V2\_t::SID**

Only for eTBS\_ForcedPCR: the ServiceId to be used/that is in use.

Definition at line 2988 of file DCM.idl.

**8.72.5.1862 Serviced\_t DCM::DeviceControl::IPS\_Service\_t::SID**

SID range: 0..65535.

Definition at line 4706 of file DCM.idl.

**8.72.5.1863 Serviced\_t DCM::DeviceControl::TC\_ServiceData\_t::SID**

Read only : The SID of the service.

Definition at line 5004 of file DCM.idl.

**8.72.5.1864 Serviced\_t DCM::DeviceControl::TC\_ServiceDataV2\_t::SID**

Read only : The SID of the service.

Definition at line 5594 of file DCM.idl.

**8.72.5.1865 unsigned long DCM::DeviceControl::Scte35Data\_Select\_now\_t::SID**

A.k.a. Program number.

Definition at line 8633 of file DCM.idl.

**8.72.5.1866 unsigned long DCM::DeviceControl::SMX\_ServiceRef\_t::SID**

Definition at line 23483 of file DCM.idl.

**8.72.5.1867 unsigned long DCM::DeviceControl::SMX\_Service\_t::SID**

Definition at line 23489 of file DCM.idl.

**8.72.5.1868 long DCM::DeviceControl::InPort\_8VSB\_Config\_t::SignalHighThreshold**

In dBm. Valid range is -80 to -20.

Definition at line 7102 of file DCM.idl.

**8.72.5.1869 long DCM::DeviceControl::InPort\_DvbS2\_TunerCfg\_t::SignalHighThreshold**

-75..-25 dBm

Definition at line 7437 of file DCM.idl.

**8.72.5.1870 long DCM::DeviceControl::InPort\_8VSB\_Config\_t::SignalLowThreshold**

In dBm. Valid range is -80 to -20.

Definition at line 7101 of file DCM.idl.

**8.72.5.1871 long DCM::DeviceControl::InPort\_DvbS2\_TunerCfg\_t::SignalLowThreshold**

-75..-25 dBm

Definition at line 7436 of file DCM.idl.

**8.72.5.1872 unsigned long DCM::DeviceControl::VideoSignalInfo\_t::SignalRate**

Definition at line 30201 of file DCM.idl.

**8.72.5.1873 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::SingleCollision**

Single collision.

Definition at line 19892 of file DCM.idl.

**8.72.5.1874 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Size1023**

512-1023 byte frames

Definition at line 19863 of file DCM.idl.

**8.72.5.1875 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::Size1023**

512-1023 byte frames

Definition at line 19884 of file DCM.idl.

**8.72.5.1876 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Size127**

65-127 byte frames

Definition at line 19860 of file DCM.idl.

**8.72.5.1877 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::Size127**

65-127 byte frames

Definition at line 19881 of file DCM.idl.

**8.72.5.1878 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Size255**

128-255 byte frames

Definition at line 19861 of file DCM.idl.

**8.72.5.1879 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::Size255**

128-255 byte frames

Definition at line 19882 of file DCM.idl.

**8.72.5.1880 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Size511**

256-511 byte frames

Definition at line 19862 of file DCM.idl.

**8.72.5.1881 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::Size511**

256-511 byte frames

Definition at line 19883 of file DCM.idl.

**8.72.5.1882 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Size64**

64 byte frames

Definition at line 19859 of file DCM.idl.

**8.72.5.1883 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::Size64**

64 byte frames

Definition at line 19880 of file DCM.idl.

**8.72.5.1884 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::SizeMax**

1024-max byte frames

Definition at line 19864 of file DCM.idl.

**8.72.5.1885 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::SizeMax**

1024-max byet frames

Definition at line 19885 of file DCM.idl.

**8.72.5.1886 unsigned short DCM::DeviceControl::MessageBufferInfo::SizeOfBuffer**

Definition at line 22366 of file DCM.idl.

**8.72.5.1887 string DCM::DeviceControl::BoardIdentification::SlotId**

Max 5 chars e.g. 1A (refers to the backplane id)

Definition at line 1288 of file DCM.idl.

**8.72.5.1888 string DCM::DeviceControl::BoardIdentification::SlotName**

Max 40 chars e.g. Input, Output, Aggregate, ... (refers to the backplane name)

Definition at line 1287 of file DCM.idl.

**8.72.5.1889 unsigned short DCM::DeviceControl::CofTrigger\_t::SlotNumber**

zero based index of the board's slot number (0 = main board).

Definition at line 22943 of file DCM.idl.

**8.72.5.1890 IPS\_UDP\_Socket\_t DCM::DeviceControl::IPS\_InputTS\_t::Socket**

Unique IP-Address and UDP port combination.

Definition at line 2350 of file DCM.idl.

**8.72.5.1891 IPS\_UDP\_Socket\_t DCM::DeviceControl::IPS\_Gbe\_InputTS\_t::Socket**

Unique IP-Address and UDP port combination.

Definition at line 2379 of file DCM.idl.

**8.72.5.1892 IPS\_UDP\_Socket\_t DCM::DeviceControl::Debug\_Gbe\_InputTS\_t::Socket**

Unique IP-Address and UDP port combination.

Definition at line 2386 of file DCM.idl.

**8.72.5.1893 IPS\_UDP\_Socket\_t DCM::DeviceControl::IPS\_OutputTS\_t::Socket**

Unique IPv4-Address and UDP port combination.

Definition at line 2460 of file DCM.idl.

**8.72.5.1894 IPS\_UDP\_Socket\_t DCM::DeviceControl::IPS\_OutputTS\_V2\_t::Socket**

Unique IPv4-Address and UDP port combination.

Definition at line 2495 of file DCM.idl.

**8.72.5.1895 IPS\_UDP\_Socket\_t DCM::DeviceControl::IPS\_LookupTS\_t::Socket**

Will be ignored on ASI board.

Definition at line 2536 of file DCM.idl.

**8.72.5.1896 IPS\_UDP\_Socket\_t DCM::DeviceControl::IPS\_OutputTS\_LT\_t::Socket**

Unique IP-Address and UDP port combination.

Definition at line 4461 of file DCM.idl.

**8.72.5.1897 IPS\_UDP\_Socket\_t DCM::DeviceControl::IPS\_OutputTS\_LT\_V2\_t::Socket**

Unique IP-Address and UDP port combination.

Definition at line 4478 of file DCM.idl.

**8.72.5.1898 IPS\_UDP\_Socket\_t DCM::DeviceControl::DCG\_InputRTP\_Stream\_t::Socket**

Unique IP-Address and UDP port combination.

Definition at line 30005 of file DCM.idl.

**8.72.5.1899 IPS\_UDP\_Socket\_t DCM::DeviceControl::DCG\_InputRTP\_Stream\_V2\_t::Socket**

Unique IP-Address and UDP port combination.

Definition at line 30027 of file DCM.idl.

**8.72.5.1900 IPS\_UDP\_Socket\_t DCM::DeviceControl::DCG\_InputRTP\_Stream\_V3\_t::Socket**

Unique IP-Address and UDP port combination.

Definition at line 30043 of file DCM.idl.

**8.72.5.1901 IPS\_UDP\_Socket\_t DCM::DeviceControl::DCG\_OutputRTP\_Stream\_t::Socket**

Unique destination IP-Address and UDP port combination.

Definition at line 30106 of file DCM.idl.

**8.72.5.1902 IPS\_UDP\_Socket\_t DCM::DeviceControl::DCG\_OutputGBE\_t::Socket**

Destination UDP socket.

Definition at line 30136 of file DCM.idl.

**8.72.5.1903 IPS\_UDP\_Socket\_t DCM::DeviceControl::SMX\_Service\_t::Source**

Definition at line 23491 of file DCM.idl.

**8.72.5.1904 unsigned short DCM::DeviceControl::VCT\_Data\_t::SourceId**

internal reference, used for ETT-V and EIT's

Definition at line 9065 of file DCM.idl.

**8.72.5.1905 string DCM::DeviceControl::IPS\_Gbe\_InputTS\_t::SourceIP**

The source IP-Address of the incoming TS.

Definition at line 2380 of file DCM.idl.

**8.72.5.1906 string DCM::DeviceControl::Debug\_Gbe\_InputTS\_t::SourceIP**

The source IP-Address of the incoming TS.

Definition at line 2387 of file DCM.idl.

**8.72.5.1907 string DCM::DeviceControl::SMX\_Encoder\_t::SourceIP**

Definition at line 23459 of file DCM.idl.

**8.72.5.1908 IPS\_Serv\_Source\_List\_t DCM::DeviceControl::IPS\_Serv\_Dest\_t::SourceList**

Definition at line 5406 of file DCM.idl.

**8.72.5.1909 string DCM::DeviceControl::MM\_MessageMainPart::SourceName**

device name

Definition at line 22311 of file DCM.idl.

**8.72.5.1910 eDvbS2\_SpectrumInversion\_t DCM::DeviceControl::InPort\_DvbS2\_Status\_t::Spectrum-Inversion**

Definition at line 7563 of file DCM.idl.

**8.72.5.1911 unsigned long DCM::DeviceControl::DPI\_ChannelSettings3\_t::SpliceDelay**

Splice delay in msec for both, to insertion and to main (0 means asap, max = 3600000 msec)

Definition at line 17059 of file DCM.idl.

**8.72.5.1912 boolean DCM::DeviceControl::DPI\_SpliceRequest\_t::SpliceIn**

SpliceIn == true/false means switch to ad/main.

Definition at line 17105 of file DCM.idl.

**8.72.5.1913 unsigned short DCM::DeviceControl::DPI\_SpliceRequestTime\_t::SpliceRequest-ScheduleTime**

in seconds

Definition at line 17098 of file DCM.idl.

**8.72.5.1914 unsigned short DCM::DeviceControl::DPI\_SpliceRequestTime\_t::SpliceRequest-WarningTime**

in seconds

Definition at line 17099 of file DCM.idl.

**8.72.5.1915 DPI\_Time\_t DCM::DeviceControl::DPI\_CueRequest\_t::SpliceTime**

Definition at line 17086 of file DCM.idl.

**8.72.5.1916 DPI\_Time\_t DCM::DeviceControl::DPI\_SpliceRequest\_t::SpliceTime**

SpliceTime == 0 means ASAP.

Definition at line 17106 of file DCM.idl.

**8.72.5.1917 unsigned short DCM::DeviceControl::SMX36\_Pool\_t::SPSInstance**

RO (Reserved) The instance number of the SPS where the pool is running if allocated else 0.

Definition at line 23793 of file DCM.idl.

**8.72.5.1918 unsigned short DCM::DeviceControl::SMX36\_Pool\_V2\_t::SPSInstance**

RO (Reserved) The instance number of the SPS where the pool is running if allocated else 0.

Definition at line 23813 of file DCM.idl.

**8.72.5.1919 octet DCM::DeviceControl::IPS\_Out\_ESSettings\_V2\_t::SrcES\_Type**

dvb streamtype of the source of the output TS.

Definition at line 5949 of file DCM.idl.



**8.72.5.1920 IPS\_RefPid\_t DCM::DeviceControl::EsEntry\_t::SrcPidRef**

Definition at line 12870 of file DCM.idl.

**8.72.5.1921 IPS\_UDP\_Socket\_t DCM::DeviceControl::GbeIO\_IP\_Settings\_t::SrcSocket**

for future use

Definition at line 3310 of file DCM.idl.

**8.72.5.1922 ServiceSourcePriority\_t DCM::DeviceControl::TsOutSvcSourceSelection\_t::SrcTo-Activate**

Definition at line 23298 of file DCM.idl.

**8.72.5.1923 eMpegStandard DCM::DeviceControl::Ref\_SI\_table\_ext\_t::Standard**

Definition at line 2661 of file DCM.idl.

**8.72.5.1924 unsigned short DCM::DeviceControl::OutTS\_PsipEitStartPid\_t::StartPid**

Definition at line 9284 of file DCM.idl.

**8.72.5.1925 unsigned short DCM::DeviceControl::OutTS\_PsipEttStartPid\_t::StartPid**

Definition at line 9292 of file DCM.idl.

**8.72.5.1926 unsigned long DCM::DeviceControl::ETV\_ApplicationIdent\_t::StartTime**

Reserved for future use. Must be 0.

Definition at line 17345 of file DCM.idl.

**8.72.5.1927 eIPS\_StreamingState DCM::DeviceControl::IPS\_OutputTS\_t::State**

Definition at line 2469 of file DCM.idl.

**8.72.5.1928 eIPS\_StreamingState DCM::DeviceControl::IPS\_OutputTS\_V2\_t::State**

Definition at line 2509 of file DCM.idl.

**8.72.5.1929 eIPS\_StreamingState DCM::DeviceControl::IPS\_OutputTS\_LT\_t::State**

Definition at line 4462 of file DCM.idl.

**8.72.5.1930 eIPS\_StreamingState DCM::DeviceControl::IPS\_OutputTS\_LT\_V2\_t::State**

Definition at line 4482 of file DCM.idl.

**8.72.5.1931 eSMX\_MFP\_SvcState DCM::DeviceControl::SMX\_MFP\_SvcSettings\_t::State**

Read-Only: the encoder rate control state.

Definition at line 16216 of file DCM.idl.

**8.72.5.1932 eSMX\_MFP\_SvcState DCM::DeviceControl::SMX\_MFP\_SvcSettings\_V2\_t::State**

Read-Only: the encoder rate control state.

Definition at line 16255 of file DCM.idl.

**8.72.5.1933 TempLicenseState\_t DCM::DeviceControl::TempLicenseData::State**

Definition at line 20662 of file DCM.idl.

**8.72.5.1934 EncoderState DCM::DeviceControl::SMX\_Encoder\_t::State**

Definition at line 23462 of file DCM.idl.

**8.72.5.1935 eDCG.StreamingState DCM::DeviceControl::DCG\_OutputTS\_t::State**

Definition at line 30083 of file DCM.idl.

**8.72.5.1936 boolean DCM::DeviceControl::IP\_Route\_t::Static**

Static route or not.

Definition at line 18702 of file DCM.idl.

**8.72.5.1937 boolean DCM::DeviceControl::IP\_Route\_t\_V2::Static**

Static route or not.

Definition at line 18714 of file DCM.idl.

**8.72.5.1938 NTP\_Stats\_t DCM::DeviceControl::NTP\_Info\_t::Stats**

Definition at line 707 of file DCM.idl.

**8.72.5.1939 GbEStatisticsEntry\_t DCM::DeviceControl::GbEPortStatsEntry\_t::Stats**

The statistics.

Definition at line 19913 of file DCM.idl.

**8.72.5.1940 eLinkStatus DCM::DeviceControl::NicTeam\_MemberStatus\_t::Status**

Definition at line 2205 of file DCM.idl.

**8.72.5.1941 TC\_VideoStatus\_t DCM::DeviceControl::TC\_VideoInformation\_t::Status**

Definition at line 13104 of file DCM.idl.

**8.72.5.1942 TC\_AudioStatus\_t DCM::DeviceControl::TC\_AudioInformation\_t::Status**

Definition at line 13160 of file DCM.idl.

**8.72.5.1943 long DCM::DeviceControl::TR\_GroupID\_t::Status**

Status field (for future use).

Definition at line 14860 of file DCM.idl.

**8.72.5.1944 long DCM::DeviceControl::TR\_TSSettings\_t::Status**

Status field (for future use).

Definition at line 14990 of file DCM.idl.

**8.72.5.1945 long DCM::DeviceControl::TR\_ServiceSettings\_t::Status**

Status field. For future use.

Definition at line 15016 of file DCM.idl.

**8.72.5.1946 long DCM::DeviceControl::TR\_ServiceSettings\_V2\_t::Status**

Status field. For future use.

Definition at line 15463 of file DCM.idl.

**8.72.5.1947 DPI\_ShortChannelStatus\_t DCM::DeviceControl::DPI\_ChannelSettings2\_t::Status**

The status information shown in the GUI on the overview page.

Definition at line 17040 of file DCM.idl.

**8.72.5.1948 DPI\_ShortChannelStatus\_t DCM::DeviceControl::DPI\_ChannelSettings3\_t::Status**

The status information shown in the GUI on the overview page.

Definition at line 17054 of file DCM.idl.

**8.72.5.1949 eArpStatus DCM::DeviceControl::ArpEntry\_t::Status**

Definition at line 18603 of file DCM.idl.

**8.72.5.1950 eFeatureState DCM::DeviceControl::Feature\_t::Status**

Definition at line 20533 of file DCM.idl.

**8.72.5.1951 MsgStatus DCM::DeviceControl::MM\_MessageMainPart::Status**

begin, end ...

Definition at line 22320 of file DCM.idl.

**8.72.5.1952 MM\_MeasureStatus DCM::DeviceControl::MM\_Measurement::Status**

Definition at line 22579 of file DCM.idl.

**8.72.5.1953 SMX36\_EncoderStatus\_e DCM::DeviceControl::SMX36\_Encoder\_t::status**

RO Status of the Encoder (Read only).

Definition at line 23939 of file DCM.idl.

**8.72.5.1954 SMX36\_VSEStatus\_e DCM::DeviceControl::SMX36\_VSE\_t::status**

RO Status of the VSE.

Definition at line 24051 of file DCM.idl.

**8.72.5.1955 SMX36\_VSEStatus\_e DCM::DeviceControl::SMX36\_VSE\_V2\_t::status**

RO Status of the VSE.

Definition at line 24070 of file DCM.idl.

**8.72.5.1956 SMX36\_VSEStatus\_e DCM::DeviceControl::SMX36\_VSE\_V3\_t::status**

RO Status of the VSE.

Definition at line 24117 of file DCM.idl.

**8.72.5.1957 SMX36\_VSEStatus\_e DCM::DeviceControl::SMX36\_VSE\_V4\_t::status**

RO Status of the VSE.

Definition at line 24168 of file DCM.idl.

**8.72.5.1958 unsigned short DCM::DeviceControl::GPI\_StatusControl\_t::Status**

current gpi pin status (readout pin)

Definition at line 31589 of file DCM.idl.

**8.72.5.1959 enDCG\_AudioStatus\_t DCM::DeviceControl::DCG\_AudioPairInfo\_t::StatusLeftCh**

Definition at line 31198 of file DCM.idl.

**8.72.5.1960 enDCG\_AudioStatus\_t DCM::DeviceControl::DCG\_AudioPairInfo\_t::StatusRightCh**

Definition at line 31197 of file DCM.idl.

**8.72.5.1961 unsigned short DCM::DeviceControl::SMX36\_Pool\_t::STickLength**

(ms) The S-Tick length of the pool.

Definition at line 23789 of file DCM.idl.

**8.72.5.1962 unsigned short DCM::DeviceControl::SMX36\_Pool\_V2\_t::STickLength**

(ms) The S-Tick length of the pool.

Definition at line 23809 of file DCM.idl.

**8.72.5.1963 octet DCM::DeviceControl::NTP\_Stats\_t::Stratum**

Defines the distance to the reference clock.

Definition at line 694 of file DCM.idl.

**8.72.5.1964 string DCM::DeviceControl::TS\_CompBitRateMeasurement\_t::strCompType**

PAT, SDT.

Definition at line 9810 of file DCM.idl.

**8.72.5.1965 string DCM::DeviceControl::ServiceCompBitRateMeasurement\_t::strCompType**

PMT, ES, ES\_ECM, ECM.

Definition at line 9821 of file DCM.idl.

**8.72.5.1966 unsigned long DCM::DeviceControl::EMM\_Data\_t::StreamID**

Definition at line 2639 of file DCM.idl.

**8.72.5.1967 unsigned short DCM::DeviceControl::PSIGSubTable\_t::StreamId**

PSIG protocol stream ID.

Definition at line 8345 of file DCM.idl.

**8.72.5.1968 boolean DCM::DeviceControl::SvcOutStreamingSetting\_t::StreamingState**

Definition at line 6072 of file DCM.idl.

**8.72.5.1969 octet DCM::DeviceControl::CompPidES\_t::streamtype**

streamtype as it will be added in the PMT. Value: 0..255

Definition at line 2828 of file DCM.idl.

**8.72.5.1970 octet DCM::DeviceControl::CompPidES\_V2\_t::streamtype**

streamtype as it will be added in the PMT. Value: 0..255

Definition at line 2842 of file DCM.idl.

**8.72.5.1971 string DCM::DeviceControl::IPS\_Out\_ESSettings\_t::strEsType**

Interpretation of Es\_Type in regard to m\_EsTypeStandard of the output TS. Read only.

Definition at line 5924 of file DCM.idl.

**8.72.5.1972 string DCM::DeviceControl::IPS\_In\_ESSettings\_t::strEsType**

Interpretation of EsType in regard to m\_EsTypeStandard of the input TS. Read only.

Definition at line 5997 of file DCM.idl.

**8.72.5.1973 string DCM::DeviceControl::ServiceCompBitRateMeasurement\_t::strEsType**

Interpretation of Es\_Type in regard to m\_EsTypeStandard of the TS. Read only.

Definition at line 9823 of file DCM.idl.

**8.72.5.1974 string DCM::DeviceControl::TrackingCriterium\_t::strLanguage**

Definition at line 5052 of file DCM.idl.

**8.72.5.1975 string DCM::DeviceControl::IPS\_Out\_ESSettings\_V2\_t::strOutES\_Type**

Interpretation of Es\_Type in regard to m\_EsTypeStandard of the output TS. Read only.

Definition at line 5952 of file DCM.idl.

**8.72.5.1976 string DCM::DeviceControl::IPS\_Out\_ESSettings\_V2\_t::strSrcES\_Type**

Interpretation of Es\_Type in regard to m\_EsTypeStandard of the source of the output TS. Read only.

Definition at line 5950 of file DCM.idl.

**8.72.5.1977 BitRateMeasurement\_t DCM::DeviceControl::TS\_BitRateMeasurement\_t::StuffingRate**

Definition at line 9791 of file DCM.idl.

**8.72.5.1978 BitRateMeasurement\_t DCM::DeviceControl::TR\_BitRateMeasurement\_t::StuffingRate**

Definition at line 9861 of file DCM.idl.

**8.72.5.1979 boolean DCM::DeviceControl::BitrateAlarmSetting\_t::StuffingRateEnabled**

True means alarm monitoring is enabled for the 'Stuffing Bitrate Too Low' alarm.

Definition at line 22991 of file DCM.idl.

**8.72.5.1980 unsigned long DCM::DeviceControl::BitrateAlarmSetting\_t::StuffingRateThreshold**

In bps. When stuffing drops below this threshold, alarm will be triggered.

Definition at line 22990 of file DCM.idl.

**8.72.5.1981 unsigned long DCM::DeviceControl::MM\_MessageMainPart::SubClass**

Definition at line 22317 of file DCM.idl.

**8.72.5.1982 unsigned long DCM::DeviceControl::MM\_MessageMainPart::SubClassNbr**

sub number

Definition at line 22318 of file DCM.idl.

**8.72.5.1983 unsigned short DCM::DeviceControl::MM\_ID\_t::SubID1**

Definition at line 435 of file DCM.idl.

**8.72.5.1984 unsigned long DCM::DCM\_Notifications::Messages::SubID1**

Definition at line 32239 of file DCM.idl.

**8.72.5.1985 unsigned short DCM::DeviceControl::MM\_ID\_t::SubID2**

Definition at line 436 of file DCM.idl.

**8.72.5.1986 unsigned long DCM::DCM\_Notifications::Messages::SubID2**

Definition at line 32240 of file DCM.idl.

**8.72.5.1987 string DCM::DeviceControl::MM\_MessageMainPart::Subject**

Definition at line 22313 of file DCM.idl.

**8.72.5.1988 string DCM::DeviceControl::IpCfg\_t::SubnetMask**

Definition at line 6669 of file DCM.idl.

**8.72.5.1989 string DCM::DeviceControl::IP\_Route\_t::SubNetMask**

use "0.0.0.0" to create a default route

Definition at line 18704 of file DCM.idl.

**8.72.5.1990 unsigned long DCM::DeviceControl::TierAC\_t::SuperCasId**

SuperCasId of CA system.

Definition at line 27641 of file DCM.idl.

#### **8.72.5.1991 long DCM::DeviceControl::RMX\_GroupSvc\_t::SvcAppliedDelay**

The applied delay of the RMX'ed service in millisecs. Read-only. Filled in when service is retrieved. To be ignored if service has status Blocked\_NoMarkers. Takes on a negative value if the service has status Blocked\_NegativeDelay, and a non-negative one if service has status Passed\_Delayed. The magnitude of negative Applied Delay indicates how much the end-to-end delay should be increased.

Definition at line 15718 of file DCM.idl.

#### **8.72.5.1992 short DCM::DeviceControl::SMX36\_StatmuxController\_t::SVCCapacity**

RO The max number of SVC (video channels) the controller can handle.

Definition at line 23730 of file DCM.idl.

#### **8.72.5.1993 unsigned long DCM::DeviceControl::IPS\_RefSvc\_t::SvcIdent**

For the moment this value equals the service ID.

Definition at line 4906 of file DCM.idl.

#### **8.72.5.1994 RMX\_GroupSvc\_List\_t DCM::DeviceControl::RMX\_GroupSvc\_t::SvcList**

sequence of services

Definition at line 15737 of file DCM.idl.

#### **8.72.5.1995 SMX\_MFP\_SvcSettings\_List\_t DCM::DeviceControl::SMX\_MFP\_Group\_SvcSettings\_t::SvcList**

sequence of services with their settings

Definition at line 16274 of file DCM.idl.

#### **8.72.5.1996 SMX\_MFP\_SvcSettings\_V2\_List\_t DCM::DeviceControl::SMX\_MFP\_Group\_SvcSettings\_V2\_t::SvcList**

sequence of services with their settings

Definition at line 16285 of file DCM.idl.

#### **8.72.5.1997 IPS\_Service\_List\_t DCM::DeviceControl::SMX\_MFP\_Group\_Svc\_t::SvcList**

sequence of services

Definition at line 16296 of file DCM.idl.

#### **8.72.5.1998 IPS\_RefSvc\_t DCM::DeviceControl::FCS\_Scte35\_CommandSelect\_t::SvcOut**

Definition at line 8774 of file DCM.idl.

#### **8.72.5.1999 IPS\_Service\_t DCM::DeviceControl::ClearPidBitrates\_t::SvcOut**

Definition at line 17637 of file DCM.idl.

#### **8.72.5.2000 IPS\_Service\_t DCM::DeviceControl::AddPidsFromSplice\_t::SvcOut**

Definition at line 17681 of file DCM.idl.

**8.72.5.2001 IPS\_Service.t DCM::DeviceControl::Scte35Source\_t::SvcOut**

Definition at line 17818 of file DCM.idl.

**8.72.5.2002 IPS\_Service.t DCM::DeviceControl::Scte35ToggleOutOfNetwork\_t::SvcOut**

Definition at line 17857 of file DCM.idl.

**8.72.5.2003 unsigned long DCM::DeviceControl::PortTsSvcProps\_t::SvcProps**

Definition at line 4643 of file DCM.idl.

**8.72.5.2004 IPS\_Service.t DCM::DeviceControl::RMX\_GroupSvc\_t::SvcRef**

The reference of the service.

Definition at line 15715 of file DCM.idl.

**8.72.5.2005 IPS\_Service.t DCM::DeviceControl::SMX\_MFP\_SvcSettings\_t::SvcRef**

Ref of the service.

Definition at line 16215 of file DCM.idl.

**8.72.5.2006 IPS\_Service.t DCM::DeviceControl::SMX\_MFP\_SvcSettings\_V2\_t::SvcRef**

Ref of the service.

Definition at line 16254 of file DCM.idl.

**8.72.5.2007 IPS\_Service.t DCM::DeviceControl::AlternateSource\_t::SvcSource**

Definition at line 17723 of file DCM.idl.

**8.72.5.2008 eRMX\_ServiceStatus.t DCM::DeviceControl::RMX\_GroupSvc\_t::SvcStatus**

The status of the RMX'ed service. < Read-only. Filled in when service is retrieved.

Definition at line 15716 of file DCM.idl.

**8.72.5.2009 IPS\_RefSvc.t DCM::DeviceControl::FCS\_Scte35\_CommandSelect\_t::SwitchToLocal-Svc**

Definition at line 8776 of file DCM.idl.

**8.72.5.2010 unsigned long DCM::DeviceControl::InPort\_DvbS2\_TunerCfg\_t::SymbolRate**

in KSym/s (1000..45000)

Definition at line 7433 of file DCM.idl.

**8.72.5.2011 DvbString.t DCM::DeviceControl::IPS\_Service\_In\_t::SystemName**

Maximum string length 255 characters.

Definition at line 4750 of file DCM.idl.

**8.72.5.2012 string DCM::DeviceControl::SMX36\_StatmuxController\_t::SystemName**

RO Systemname hat is the name of the [DCM](#).



Definition at line 23726 of file DCM.idl.

**8.72.5.2013** **string DCM::DeviceControl::DescrCAM\_Status\_t::SystemName**

system name

Definition at line 28694 of file DCM.idl.

**8.72.5.2014** **unsigned short DCM::DeviceControl::Ref\_SI\_table\_ext\_t::table\_id**

Definition at line 2662 of file DCM.idl.

**8.72.5.2015** **unsigned short DCM::DeviceControl::Ref\_SI\_table\_ext\_t::table\_type**

Definition at line 2663 of file DCM.idl.

**8.72.5.2016** **unsigned long DCM::DeviceControl::Table\_Sync\_Info\_t::TableId**

0x70 for TDT of 0x73 for TOT or 0xCD for STT

Definition at line 735 of file DCM.idl.

**8.72.5.2017** **unsigned long DCM::DeviceControl::TableKeys\_t::TableId**

Definition at line 2752 of file DCM.idl.

**8.72.5.2018** **unsigned long DCM::DeviceControl::SI\_AutoPassRules\_t::TableId**

TID to auto-pass - Use 0x4F for EITo p/f.

Definition at line 2905 of file DCM.idl.

**8.72.5.2019** **unsigned long DCM::DeviceControl::TableKeys\_t::TableIdExt**

SID,.... Set to 0xFFFFFFFF when not used.

Definition at line 2755 of file DCM.idl.

**8.72.5.2020** **TableKeys\_t DCM::DeviceControl::TableKeysExt\_t::TableKey**

Definition at line 7808 of file DCM.idl.

**8.72.5.2021** **TableKeysExt\_t DCM::DeviceControl::DescriptorData\_t::TableKey**

Definition at line 7827 of file DCM.idl.

**8.72.5.2022** **unsigned long DCM::DCM\_Notifications::Output\_SI\_TableChng::TableKey\_Id**

Definition at line 32303 of file DCM.idl.

**8.72.5.2023** **unsigned long DCM::DCM\_Notifications::Output\_SI\_TableDel::TableKey\_Id**

Definition at line 32319 of file DCM.idl.

**8.72.5.2024** **unsigned long DCM::DCM\_Notifications::Output\_SI\_TableChng::TableKey\_IdExt**

SID,.... Set to 0xFFFFFFFF when not used.

Definition at line 32304 of file DCM.idl.

**8.72.5.2025 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableDel::TableKey\_IdExt**

SID,.... Set to 0xFFFFFFFF when not used.

Definition at line 32320 of file DCM.idl.

**8.72.5.2026 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableChng::TableKey\_OnId**

Set to 0xFFFFFFFF when not used.

Definition at line 32305 of file DCM.idl.

**8.72.5.2027 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableDel::TableKey\_OnId**

Set to 0xFFFFFFFF when not used.

Definition at line 32321 of file DCM.idl.

**8.72.5.2028 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableChng::TableKey\_Pid**

Always filled in. Only needed for AIT or tables on non-standard PID's.

Definition at line 32307 of file DCM.idl.

**8.72.5.2029 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableDel::TableKey\_Pid**

Always filled in. Only needed for AIT or tables on non-standard PID's.

Definition at line 32323 of file DCM.idl.

**8.72.5.2030 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableChng::TableKey\_TsId**

Set to 0xFFFFFFFF when not used.

Definition at line 32306 of file DCM.idl.

**8.72.5.2031 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableDel::TableKey\_TsId**

Set to 0xFFFFFFFF when not used.

Definition at line 32322 of file DCM.idl.

**8.72.5.2032 TableKeys\_t DCM::DeviceControl::IOP\_SubTable\_t::TableKeys**

identifies the sub-table.

Definition at line 8395 of file DCM.idl.

**8.72.5.2033 string DCM::DeviceControl::Ref\_SI\_table\_ext\_t::TableName**

Definition at line 2664 of file DCM.idl.

**8.72.5.2034 unsigned short DCM::DeviceControl::PsipMgtInfo\_t::TableType**

Definition at line 9698 of file DCM.idl.

**8.72.5.2035 octet DCM::DeviceControl::DescriptorData\_t::Tag**

Definition at line 7831 of file DCM.idl.

**8.72.5.2036** `octet DCM::DeviceControl::DescriptorRule_t::Tag`

Definition at line 7838 of file DCM.idl.

**8.72.5.2037** `octet DCM::DeviceControl::MergedESDescriptorData_t::Tag`

Definition at line 8031 of file DCM.idl.

**8.72.5.2038** `eNTP_TallyCodes DCM::DeviceControl::NTP_Stats_t::TallyCode`

Definition at line 692 of file DCM.idl.

**8.72.5.2039** `unsigned long DCM::DeviceControl::SMX_Encoder_t::TargetBitrate`

Definition at line 23466 of file DCM.idl.

**8.72.5.2040** `TimeBaseSelectionMode_t DCM::DeviceControl::InTS_TimeBaseSelectionMode_t::TBS_Mode`

Definition at line 2956 of file DCM.idl.

**8.72.5.2041** `TimeBaseSelectionMode_V2_t DCM::DeviceControl::InTS_TimeBaseSelectionMode_V2_t::TBS_Mode`

Definition at line 2996 of file DCM.idl.

**8.72.5.2042** `unsigned long DCM::DeviceControl::TC_ServiceData_t::TC_Property`

Read only Bitmap used by GUI to display < Bit 0: Service present at input (true) or not (false). < Bit 4: at least one of the source input PIDs of this service is scrambled < Bit 5: TRUE if service is in backup < Bit 6: TRUE if Service Loss Alarm is active. < Bit 29: TRUE if service can't be deleted (e.g. because it's passed to an output) < Bit 30: TRUE if transcoding is enabled on one of the components of the Service < TRUE if service on a MFP board is processing (transrating/transcoding) audio or video < Bit 31: TRUE if Service contains VBI (future) (same bit as in [IPS\\_Service\\_In\\_t](#))

- Other bits for future use.

Definition at line 5005 of file DCM.idl.

**8.72.5.2043** `unsigned long DCM::DeviceControl::TC_ServiceDataV2_t::TC_Property`

Read only Bitmap used by GUI to display < Bit 0: Service present at input (true) or not (false). < Bit 4: at least one of the source input PIDs of this service is scrambled < Bit 5: TRUE if service is in backup < Bit 6: TRUE if Service Loss Alarm is active. < Bit 29: TRUE if service can't be deleted (e.g. because it's passed to an output) < Bit 30: TRUE if transcoding is enabled on one of the components of the Service < TRUE if service on a MFP board is processing (transrating/transcoding) audio or video < Bit 31: TRUE if Service contains VBI (future) (same bit as in [IPS\\_Service\\_In\\_t](#))

- Other bits for future use.

Definition at line 5595 of file DCM.idl.

**8.72.5.2044** `long DCM::DeviceControl::ComponentTemperature_t::Temperature`

The temperature of this component in degrees centigrade.

Definition at line 1943 of file DCM.idl.

**8.72.5.2045 string DCM::DeviceControl::MM\_MessageMainPart::Text**

text of the message

Definition at line 22312 of file DCM.idl.

**8.72.5.2046 Color\_t DCM::DeviceControl::BannerCfg\_t::TextColor**

Text color.

Definition at line 13900 of file DCM.idl.

**8.72.5.2047 Color\_t DCM::DeviceControl::BannerCfg\_V2\_t::TextColor**

Text color.

Definition at line 13962 of file DCM.idl.

**8.72.5.2048 FontCfgID\_t DCM::DeviceControl::BannerCfg\_t::TextFontID**

The font ID to be used.

Definition at line 13899 of file DCM.idl.

**8.72.5.2049 FontCfgID\_t DCM::DeviceControl::BannerCfg\_V2\_t::TextFontID**

The font ID to be used.

Definition at line 13961 of file DCM.idl.

**8.72.5.2050 unsigned short DCM::DeviceControl::BannerCfg\_t::TextHeight**

In pixels. Must be smaller or equal to BannerHeight.

Definition at line 13903 of file DCM.idl.

**8.72.5.2051 unsigned short DCM::DeviceControl::BannerCfg\_V2\_t::TextHeight**

In pixels. Must be smaller or equal to BannerHeight.

Definition at line 13965 of file DCM.idl.

**8.72.5.2052 unsigned short DCM::DeviceControl::BannerCfg\_t::TextLoopCount**

Number of times an banner should be displayed: loop count of 0 means animation is played continously, loop count of 3 means animation is played three times.

Definition at line 13905 of file DCM.idl.

**8.72.5.2053 unsigned short DCM::DeviceControl::BannerCfg\_V2\_t::TextLoopCount**

Number of times an banner should be displayed: loop count of 0 means animation is played continously, loop count of 3 means animation is played three times.

Definition at line 13967 of file DCM.idl.

**8.72.5.2054 unsigned short DCM::DeviceControl::BannerCfg\_t::TextMaxWidth**

In pixels. Must be smaller or equal to BannerWidth.

Definition at line 13904 of file DCM.idl.

**8.72.5.2055 unsigned short DCM::DeviceControl::BannerCfg\_V2\_t::TextMaxWidth**

In pixels. Must be smaller or equal to BannerWidth.

Definition at line 13966 of file DCM.idl.

**8.72.5.2056 unsigned short DCM::DeviceControl::BannerCfg\_t::TextOpacity**

10 \* opacity in % (e.g. OpacityX10 = 11 means an opacity of 1.1%), < 100% opaque means not transparent at all.

Definition at line 13901 of file DCM.idl.

**8.72.5.2057 unsigned short DCM::DeviceControl::BannerCfg\_V2\_t::TextOpacity**

10 \* opacity in % (e.g. OpacityX10 = 11 means an opacity of 1.1%), < 100% opaque means not transparent at all.

Definition at line 13963 of file DCM.idl.

**8.72.5.2058 long DCM::DeviceControl::BannerCfg\_t::TextSpeed**

Scrolling speed of the text in pixels/frame. Positive values scroll < from right to left, negative values from left to right.

Definition at line 13909 of file DCM.idl.

**8.72.5.2059 long DCM::DeviceControl::BannerCfg\_V2\_t::TextSpeed**

Scrolling speed of the text in pixels/frame. Positive values scroll < from right to left, negative values from left to right.

Definition at line 13971 of file DCM.idl.

**8.72.5.2060 PCTM\_ThresholdValues\_t DCM::DeviceControl::PCTM\_StreamThresholdSettings\_t::ThresholdValues**

Definition at line 20290 of file DCM.idl.

**8.72.5.2061 sequence<TierAC\_t> DCM::DeviceControl::TierData\_t::TierACLList**

Access criteria for tier.

Definition at line 27650 of file DCM.idl.

**8.72.5.2062 unsigned long DCM::DeviceControl::TierData\_t::TierId**

Tier identification.

Definition at line 27648 of file DCM.idl.

**8.72.5.2063 unsigned long DCM::DeviceControl::TS\_Tier\_t::TierId**

Definition at line 27657 of file DCM.idl.

**8.72.5.2064 string DCM::DeviceControl::TierData\_t::TierName**

Name for tier.

Definition at line 27649 of file DCM.idl.

**8.72.5.2065 long DCM::DeviceControl::Feature\_t::TimeLeft**

Definition at line 20544 of file DCM.idl.

**8.72.5.2066 unsigned long DCM::DeviceControl::GPI\_StatusControl\_t::TimeStamp**

gpi local timestamp, changed status (seconds since 00:00:00 UTC, January 1, 1970)

Definition at line 31591 of file DCM.idl.

**8.72.5.2067 unsigned long DCM::DeviceControl::GPI\_StatusControl\_t::TimeStampOffset**

offset in microseconds since TimeStamp

Definition at line 31593 of file DCM.idl.

**8.72.5.2068 string DCM::DeviceControl::OutTS\_SttTimeZone\_t::TimeZone**

Definition at line 8966 of file DCM.idl.

**8.72.5.2069 TOT\_Timezone\_List\_t DCM::DeviceControl::TS\_TOT\_Timezone\_t::Timezones**

Definition at line 2774 of file DCM.idl.

**8.72.5.2070 boolean DCM::DeviceControl::Scte35ToggleOutOfNetwork\_t::ToggleOutOfNetwork**

Set to True if the out\_of\_network\_indicator bit should be toggled.

Definition at line 17858 of file DCM.idl.

**8.72.5.2071 unsigned long DCM::DeviceControl::DPI\_ChannelSettings3\_t::ToInsertGpiNr**

Gpi pin used to switch to insertion.

Definition at line 17056 of file DCM.idl.

**8.72.5.2072 unsigned long DCM::DeviceControl::DPI\_ChannelSettings3\_t::ToMainGpiNr**

Gpi pin used to switch to main.

Definition at line 17057 of file DCM.idl.

**8.72.5.2073 SMX36\_ToS\_e DCM::DeviceControl::SMX36\_NetworkQoS\_t::ToS**

(mode ToS\_CoS\_Precedence) ToS value (not custom).

Definition at line 23644 of file DCM.idl.

**8.72.5.2074 unsigned short DCM::DeviceControl::OutTS\_TOS\_t::TOS\_Value**

Definition at line 18093 of file DCM.idl.

**8.72.5.2075 unsigned short DCM::DeviceControl::SMX36\_NetworkQoS\_t::ToSCustom**

(mode Custom) ToS custom value range [0-255].

Definition at line 23647 of file DCM.idl.

**8.72.5.2076 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Total**

< Statistics about received frames

Total frames received

Definition at line 19856 of file DCM.idl.

**8.72.5.2077 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::Total**

< Statistics about transmitted frames

Total

Definition at line 19876 of file DCM.idl.

**8.72.5.2078 unsigned long DCM::DeviceControl::TR\_DelayMode\_t::TotalDelay**

Customized setting of the total delay of the transrater board.

Definition at line 14955 of file DCM.idl.

**8.72.5.2079 unsigned long DCM::DeviceControl::TR\_DelayMode\_V2\_t::TotalDelay**

Customized setting of the total delay of the transrater board.

Definition at line 14965 of file DCM.idl.

**8.72.5.2080 unsigned short DCM::DeviceControl::FEC\_Dec\_Status\_t::TotalOverhead**

in percentage fixed point 2 digit (x100)

Definition at line 19183 of file DCM.idl.

**8.72.5.2081 unsigned short DCM::DeviceControl::FEC\_Enc\_Overhead\_t::TotalOverhead**

in percentage fixed point 2 digit (x100), e.g. 10% -> 1000

Definition at line 19455 of file DCM.idl.

**8.72.5.2082 unsigned long long DCM::DeviceControl::InPort\_DvbS2\_Counters\_t::TotalPackets-Count**

Definition at line 7596 of file DCM.idl.

**8.72.5.2083 BitRateMeasurement\_t DCM::DeviceControl::TS\_BitRateMeasurement\_t::TotalRate**

Definition at line 9790 of file DCM.idl.

**8.72.5.2084 BitRateMeasurement\_t DCM::DeviceControl::TR\_BitRateMeasurement\_t::TotalRate**

Definition at line 9860 of file DCM.idl.

**8.72.5.2085 TrackingCriterium\_t DCM::DeviceControl::MergeCriterium\_t::TrackingCriterium**

Definition at line 5061 of file DCM.idl.

**8.72.5.2086 TrackingCriterium\_t DCM::DeviceControl::MFPB\_VideoDecode\_t::TrackingCriterium**

Definition at line 10681 of file DCM.idl.

**8.72.5.2087 TrackingCriterium\_t DCM::DeviceControl::MFPB\_AudioDecode\_t::TrackingCriterium**

Definition at line 11656 of file DCM.idl.

**8.72.5.2088 TrackingCriterium.t DCM::DeviceControl::TC\_VideoDecode\_t::TrackingCriterium**

Definition at line 13032 of file DCM.idl.

**8.72.5.2089 TrackingCriterium.t DCM::DeviceControl::TC\_Video\_t::TrackingCriterium**

Definition at line 13096 of file DCM.idl.

**8.72.5.2090 TrackingCriterium.t DCM::DeviceControl::TC\_Audio\_t::TrackingCriterium**

Definition at line 13152 of file DCM.idl.

**8.72.5.2091 TrackingCriterium.t DCM::DeviceControl::DescrTrackingRule\_t::TrackingCriterium**

Definition at line 28419 of file DCM.idl.

**8.72.5.2092 MFPB\_TrackingID.t DCM::DeviceControl::MFPB\_ServiceTrackingID\_t::TrackingID**

Definition at line 10553 of file DCM.idl.

**8.72.5.2093 MFPB\_TrackingID.t DCM::DeviceControl::MFPB\_Component\_t::TrackingId**

0 if the component matches no tracking criteria.

Definition at line 10560 of file DCM.idl.

**8.72.5.2094 MFPB\_TrackingID.t DCM::DeviceControl::MFPB\_VideoInformation\_t::TrackingId**

Definition at line 10646 of file DCM.idl.

**8.72.5.2095 MFPB\_TrackingID.t DCM::DeviceControl::MFPB\_VideoDecode\_t::TrackingId**

0 when creating a new entry

Definition at line 10680 of file DCM.idl.

**8.72.5.2096 MFPB\_TrackingID.t DCM::DeviceControl::MFPB\_VideoEncode\_t::TrackingId**

Must be equal to the tracking ID of a video decode.

Definition at line 11036 of file DCM.idl.

**8.72.5.2097 MFPB\_TrackingID.t DCM::DeviceControl::MFPB\_VideoEncodeV2\_t::TrackingId**

Must be equal to the tracking ID of a video decode.

Definition at line 11211 of file DCM.idl.

**8.72.5.2098 MFPB\_TrackingID.t DCM::DeviceControl::MFPB\_MultiResVideoEncode\_t::TrackingId**

Must be equal to the tracking ID of a video decode.

Definition at line 11371 of file DCM.idl.

**8.72.5.2099 MFPB\_TrackingID.t DCM::DeviceControl::MFPB\_AudioInformation\_t::TrackingId**

Definition at line 11621 of file DCM.idl.



**8.72.5.2100 MFPB\_TrackingID\_t DCM::DeviceControl::MFPB\_AudioDecode\_t::TrackingId**

0 when creating a new entry

Definition at line 11655 of file DCM.idl.

**8.72.5.2101 MFPB\_TrackingID\_t DCM::DeviceControl::MFPB\_AudioEncode\_t::TrackingId**

Must be equal to the tracking ID of a Audio decode.

Definition at line 11787 of file DCM.idl.

**8.72.5.2102 MFPB\_TrackingID\_t DCM::DeviceControl::MFPB\_MPEGL2\_AudioSettings\_t::TrackingId**

Identifies the elementary streams encoder where the setting should be added to.

Definition at line 11864 of file DCM.idl.

**8.72.5.2103 MFPB\_TrackingID\_t DCM::DeviceControl::MFPB\_AAC\_AudioSettings\_t::TrackingId**

Identifies the elementary streams encoder where the setting should be added to.

Definition at line 11953 of file DCM.idl.

**8.72.5.2104 MFPB\_TrackingID\_t DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t::TrackingId**

Identifies the elementary streams encoder where the setting should be added to.

Definition at line 12103 of file DCM.idl.

**8.72.5.2105 MFPB\_TrackingID\_t DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t::TrackingId**

Identifies the elementary streams encoder where the setting should be added to.

Definition at line 12251 of file DCM.idl.

**8.72.5.2106 MFPB\_TrackingID\_t DCM::DeviceControl::MFPB\_AudioDecodeExtraMPEGL2Settings\_t::TrackingId**

Identifies the elementary streams encoder where the setting should be added to (.

See also

[MFPB\\_AudioDecode\\_t](#))

Definition at line 12389 of file DCM.idl.

**8.72.5.2107 MFPB\_TrackingID\_t DCM::DeviceControl::MFPB\_AudioDecodeExtraAACSettings\_t::TrackingId**

Identifies the elementary streams encoder where the setting should be added to (.

See also

[MFPB\\_AudioDecode\\_t](#))

Definition at line 12454 of file DCM.idl.

#### 8.72.5.2108 MFPB\_TrackingID\_t DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbySettings\_t::TrackingId

Identifies the elementary streams encoder where the setting should be added to (.

See also

[MFPB\\_AudioDecode\\_t](#))

Definition at line 12538 of file DCM.idl.

#### 8.72.5.2109 MFPB\_TrackingID\_t DCM::DeviceControl::MFPB\_ES\_CaptionInfo\_t::TrackingId

Identifies the elementary stream where the Caption Service Descriptor should be added to.

Definition at line 12615 of file DCM.idl.

#### 8.72.5.2110 MFPB\_TrackingID\_t DCM::DeviceControl::MFPB\_DD\_MetaDecStatus\_t::TrackingId

Definition at line 12711 of file DCM.idl.

#### 8.72.5.2111 MFPB\_TrackingID\_t DCM::DeviceControl::MFPB\_MetaDataCfg\_t::TrackingId

Definition at line 12765 of file DCM.idl.

#### 8.72.5.2112 TrackingID\_t DCM::DeviceControl::TC\_ServiceTrackingID\_t::TrackingID

Definition at line 13003 of file DCM.idl.

#### 8.72.5.2113 TrackingID\_t DCM::DeviceControl::TC\_VideoDecode\_t::TrackingId

0 when creating a new entry

Definition at line 13031 of file DCM.idl.

#### 8.72.5.2114 TrackingID\_t DCM::DeviceControl::TC\_VideoEncode\_t::TrackingId

Must be equal to the tracking ID of a video decode.

Definition at line 13047 of file DCM.idl.

#### 8.72.5.2115 TrackingID\_t DCM::DeviceControl::TC\_Video\_t::TrackingId

0 when creating a new entry

Definition at line 13095 of file DCM.idl.

#### 8.72.5.2116 TrackingID\_t DCM::DeviceControl::TC\_VideoInformation\_t::TrackingId

Definition at line 13103 of file DCM.idl.

#### 8.72.5.2117 TrackingID\_t DCM::DeviceControl::TC\_Pip\_t::TrackingId

Must be equal to the tracking ID of a video decode (preferred) or the tracking ID of a video transcode (deprecated).

See TC\_PipCfgSetL(..) for more info.

Definition at line 13121 of file DCM.idl.

**8.72.5.2118 TrackingId\_t DCM::DeviceControl::TC\_Audio\_t::TrackingId**

0 when creating a new entry

Definition at line 13151 of file DCM.idl.

**8.72.5.2119 TrackingId\_t DCM::DeviceControl::TC\_AudioInformation\_t::TrackingId**

Definition at line 13159 of file DCM.idl.

**8.72.5.2120 TrackingId\_t DCM::DeviceControl::TC\_Component\_t::TrackingId**

0 if the component matches no tracking criteria.

Definition at line 13233 of file DCM.idl.

**8.72.5.2121 TrackingId\_t DCM::DeviceControl::TC\_ES\_CaptionInfo\_t::TrackingId**

Identifies the elementary stream where the Caption Service Descriptor should be added to.

Definition at line 13249 of file DCM.idl.

**8.72.5.2122 unsigned short DCM::DeviceControl::GbeIO\_IP\_Settings\_t::TrafficClass\_TOS**

for future use - default value 0

Definition at line 3311 of file DCM.idl.

**8.72.5.2123 unsigned short DCM::DeviceControl::Scte35Data\_Keyer\_config\_t::Transition\_rate\_off**

Definition at line 8666 of file DCM.idl.

**8.72.5.2124 unsigned short DCM::DeviceControl::Scte35Data\_Keyer\_config\_t::Transition\_rate\_on**

Definition at line 8665 of file DCM.idl.

**8.72.5.2125 boolean DCM::DeviceControl::DescrTS\_Data\_V2\_t::TransparentSI**

true: pass SI transparently (aka SFN mode) false: update SI (PMT, SDT, EIT) if descrambled (aka SI mode) default value is true

Definition at line 28235 of file DCM.idl.

**8.72.5.2126 DCG\_VBI\_Lines\_t DCM::DeviceControl::DCG\_VBI\_Defs\_t::TransperentLines525f1**

Definition at line 31294 of file DCM.idl.

**8.72.5.2127 DCG\_VBI\_Lines\_t DCM::DeviceControl::DCG\_VBI\_Defs\_t::TransperentLines525f2**

Definition at line 31295 of file DCM.idl.

**8.72.5.2128 DCG\_VBI\_Lines\_t DCM::DeviceControl::DCG\_VBI\_Defs\_t::TransperentLines625f1**

Definition at line 31296 of file DCM.idl.

**8.72.5.2129 DCG\_VBI\_Lines\_t DCM::DeviceControl::DCG\_VBI\_Defs\_t::TransperentLines625f2**

Definition at line 31297 of file DCM.idl.

**8.72.5.2130 string DCM::DeviceControl::TrapDestination::TrapCommunity**

Max 40 char.

Definition at line 1115 of file DCM.idl.

**8.72.5.2131 boolean DCM::DeviceControl::AlarmTriggerRule\_t::Trigger**

Definition at line 21408 of file DCM.idl.

**8.72.5.2132 eBoardPresenceTrigger\_t DCM::DeviceControl::CofTrigger\_t::Trigger**

defines the trigger for the alarm.

Definition at line 22945 of file DCM.idl.

**8.72.5.2133 OutputTsLossTrigger\_t DCM::DeviceControl::OutputTsLossTriggerPerTs\_t::Trigger**

Trigger configuration for Output TS Loss.

Definition at line 32061 of file DCM.idl.

**8.72.5.2134 TriggerBitmap\_t DCM::DeviceControl::ServiceLossTrigger\_t::triggerBitmap**

Definition at line 20847 of file DCM.idl.

**8.72.5.2135 TriggerBitmap\_t DCM::DeviceControl::TS\_LossTrigger\_t::triggerBitmap**

Definition at line 20913 of file DCM.idl.

**8.72.5.2136 OutputTsLossTriggerBitmap\_t DCM::DeviceControl::OutputTsLossTriggerBitmapPerTs\_t::TriggerBitmap**

Trigger bitmap configuration for Output TS Loss.

Definition at line 32127 of file DCM.idl.

**8.72.5.2137 IPS\_RefTS\_t DCM::DeviceControl::TS\_SI\_Table\_Periods\_t::TS**

Definition at line 2745 of file DCM.idl.

**8.72.5.2138 IPS\_RefTS\_t DCM::DeviceControl::TS\_TOT\_Timezone\_t::TS**

Definition at line 2773 of file DCM.idl.

**8.72.5.2139 unsigned long DCM::DeviceControl::IPS\_InputTS\_t::TS\_InProperty**

Read only Bitmap used by GUI to display specific icons (.).

See also

[BITMAP\\_INPUT\\_TS\\_EMMS\\_PRESENT](#) etc.)

- Bit 0: TRUE if EMM [Pid](#) are present in the TS
- Bit 1: TRUE if unreferenced [Pid](#) are present in the TS
- Bit 2: TRUE if PrivateDataEMMG [Pid](#) are present in the TS
- Bit 3: TRUE if RTP is streamed (reserved for future use)
- Bit 4: TRUE if VLAN is used (reserved for future use)
- Bit 5: TRUE if VBR is used (reserved for future use)

- Bit 6: TRUE if TS is routed
- Bit 7: TRUE if TS is present at the input
- Bit 8: TRUE if [UDP](#) Stream Loss/ASI TS Sync Loss alarm is active. From V10.10 also if CC error is active.
- Bit 9: TRUE if FEC column stream is present.
- Bit10: TRUE if FEC row stream is present.
- Bit11: TRUE if TS is in Backup.
- Bit12: TRUE if unreferenced PIDs are routed.
- Bit13: TRUE if TsLoss Alarm is active ([Backup](#) trigger).

Definition at line 2370 of file DCM.idl.

#### 8.72.5.2140 unsigned long DCM::DeviceControl::ASI\_DTF\_t::TS\_InProperty

Property bitmap.

Definition at line 21989 of file DCM.idl.

#### 8.72.5.2141 unsigned long DCM::DeviceControl::ASI\_DTF\_Ex\_t::TS\_InProperty

Property bitmap: bit[0] indicates scrambling status (1 = OK)

Definition at line 22007 of file DCM.idl.

#### 8.72.5.2142 unsigned long DCM::DeviceControl::DCG\_InputTS\_t::TS\_InProperty

Read only Bitmap used by GUI to display specific icons.

- Bit 3: TRUE if RTP is streamed (reserved for future use)
- Bit 4: TRUE if VLAN is used (reserved for future use)
- Bit 5: TRUE if VBR is used (reserved for future use)
- Bit 6: TRUE if Stream is routed
- Bit 7: TRUE if Stream is present at the input
- Bit 8: TRUE if UDP Stream Loss/SDI Sync Loss/ASI Sync Loss/AES Sync Loss alarm is active.
- Bit 9: TRUE if FEC column stream is present.
- Bit10: TRUE if FEC row stream is present.
- Bit11: TRUE if Stream is in Backup.

Definition at line 29992 of file DCM.idl.

#### 8.72.5.2143 unsigned long DCM::DeviceControl::IPS\_OutputTS\_t::TS\_OutProperty

Read only Bitmap used by GUI to display specific icons (.).

## See also

[BITMAP\\_OUTPUT\\_TS\\_EMMS\\_PRESENT](#) etc.) < Bit 0: TRUE if EMM [Pid](#) are present in the TS < Bit 1: TRUE if unreferenced [Pid](#) are present in the TS < Bit 2: TRUE if PrivateDataEMMG [Pid](#) are present in the TS < Bit 3: TRUE if RTP is streamed < Bit 4: TRUE if VLAN is enabled < Bit 5: TRUE if VBR is enabled < Bit 9: TRUE if FEC column stream is enabled < Bit 10: TRUE if FEC row stream is enabled < Bit 11: TRUE if SFN is enabled < Bit 12: TRUE if [Deterministic Remux](#) RDCS TS is enabled

Definition at line 2473 of file DCM.idl.

**8.72.5.2144 unsigned long DCM::DeviceControl::IPS\_OutputTS\_V2\_t::TS\_OutProperty**

Read only Bitmap used by GUI to display specific icons (.).

## See also

[BITMAP\\_OUTPUT\\_TS\\_EMMS\\_PRESENT](#) etc.) < Bit 0: TRUE if EMM [Pid](#) are present in the TS < Bit 1: TRUE if unreferenced [Pid](#) are present in the TS < Bit 2: TRUE if PrivateDataEMMG [Pid](#) are present in the TS < Bit 3: TRUE if RTP is streamed < Bit 4: TRUE if VLAN is enabled < Bit 5: TRUE if VBR is enabled < Bit 9: TRUE if FEC column stream is enabled < Bit 10: TRUE if FEC row stream is enabled < Bit 11: TRUE if SFN is enabled < Bit 12: TRUE if [Deterministic Remux](#) RDCS TS is enabled

Definition at line 2513 of file DCM.idl.

**8.72.5.2145 unsigned long DCM::DeviceControl::IPS\_OutputTS\_LT\_t::TS\_OutProperty**

Read only Bitmap used by GUI to display specific icons. < Bit 3: TRUE if RTP is streamed < Bit 4: TRUE if VLAN is enabled < Bit 9: TRUE if FEC column stream is enabled < Bit 10: TRUE if FEC row stream is enabled.

Definition at line 4463 of file DCM.idl.

**8.72.5.2146 unsigned long DCM::DeviceControl::IPS\_OutputTS\_LT\_V2\_t::TS\_OutProperty**

Read only state.

Read only Bitmap used by GUI to display specific icons. < Bit 3: TRUE if RTP is streamed < Bit 4: TRUE if VLAN is enabled < Bit 9: TRUE if FEC column stream is enabled < Bit 10: TRUE if FEC row stream is enabled

Definition at line 4483 of file DCM.idl.

**8.72.5.2147 unsigned long DCM::DeviceControl::ASI\_DTF\_OutputTS\_t::TS\_OutProperty**

Property bitmap.

Definition at line 22036 of file DCM.idl.

**8.72.5.2148 unsigned long DCM::DeviceControl::ASI\_DTF\_OutputTS\_Ex\_t::TS\_OutProperty**

Property bitmap.

Definition at line 22048 of file DCM.idl.

**8.72.5.2149 unsigned long DCM::DeviceControl::DCG\_OutputTS\_t::TS\_OutProperty**

Read only Bitmap used by GUI to display specific icons < Bit 3: TRUE if RTP is streamed < Bit 4: TRUE if VLAN is enabled < Bit 5: TRUE if VBR is enabled < Bit 6: TRUE if Stream is routed < Bit 7: TRUE

if Stream is present at input < Bit 9: TRUE if FEC column stream is enabled < Bit 10: TRUE if FEC row stream is enabled < Bit 11: TRUE if Stream is in Backup.

Definition at line 30084 of file DCM.idl.

#### **8.72.5.2150 unsigned long DCM::DeviceControl::TR\_DelayMode\_V2\_t::TsDelay**

Customized setting of the TS delay (CoarseDelay = eTR\_TS\_Delay) can be set between 5ms and 100ms.

Definition at line 14967 of file DCM.idl.

#### **8.72.5.2151 unsigned long DCM::DeviceControl::IPS\_InputTS\_t::TSID**

TSID range: [0..65535].

Definition at line 2351 of file DCM.idl.

#### **8.72.5.2152 unsigned long DCM::DeviceControl::IPS\_OutputTS\_t::TSID**

TSID range: 0..65535.

Definition at line 2470 of file DCM.idl.

#### **8.72.5.2153 unsigned long DCM::DeviceControl::IPS\_OutputTS\_V2\_t::TSID**

Read only state.

TSID range: 0..65535.

Definition at line 2510 of file DCM.idl.

#### **8.72.5.2154 unsigned long DCM::DeviceControl::TableKeys\_t::TsId**

Set to 0xFFFFFFFF when not used.

Definition at line 2754 of file DCM.idl.

#### **8.72.5.2155 unsigned long DCM::DeviceControl::PSIGSubTable\_t::TsId**

As in PSIG channel setup.

Definition at line 8341 of file DCM.idl.

#### **8.72.5.2156 unsigned long DCM::DeviceControl::IIOP\_SubTable\_t::TsId**

transport stream ID of targeted output TS.

Definition at line 8394 of file DCM.idl.

#### **8.72.5.2157 unsigned long DCM::DCM\_Notifications::Output\_TS\_Delete::TsId**

Definition at line 32291 of file DCM.idl.

#### **8.72.5.2158 TR\_TSSettings\_List\_t DCM::DeviceControl::TR\_TSAdd\_t::TSList**

A sequence of output transport streams.

Definition at line 14998 of file DCM.idl.

**8.72.5.2159 SMX\_MFP\_TsSettings\_List\_t DCM::DeviceControl::SMX\_MFP\_Group\_TSSettings\_t::TSList**

A sequence of output transport stream settings.

Definition at line 16194 of file DCM.idl.

**8.72.5.2160 IPS\_RefTS\_List\_t DCM::DeviceControl::SMX\_MFP\_Group\_TSs\_t::TSList**

A sequence of output transport streamS.

Definition at line 16203 of file DCM.idl.

**8.72.5.2161 unsigned short DCM::DeviceControl::TsPacketIndexerID\_Data\_t::TsPacketIndexerID**

Definition at line 29394 of file DCM.idl.

**8.72.5.2162 boolean DCM::DeviceControl::TsPacketIndexerID\_Data\_t::TsPacketIndexerID\_Valid**

Definition at line 29393 of file DCM.idl.

**8.72.5.2163 unsigned long DCM::DeviceControl::PortTsSvcProps\_t::TsProps**

Bit map of aggregated TS Properties on a port.

Bit mapping for input TS properties \* Bit 8: TRUE if UDP Stream Loss/ASI TS Sync Loss alarm is active. From V10.10 also if CC error is active (Mask: BITMAP\_INPUT\_TS\_ALARM\_ACTIVE) \* Bit 13: TRUE if TsLoss Alarm is active (backup trigger) (Mask: BITMAP\_INPUT\_TS\_TSLOSS\_ALARM\_ACTIVE)

For output TSs bitmap is zero

Definition at line 4632 of file DCM.idl.

**8.72.5.2164 IPS\_RefTS\_t DCM::DeviceControl::TR\_GroupSettings\_t::TSRef**

The output transport stream this group contains (parts of). It should be set to 0xFFFFFFFF in case of a MultiTS group.

Definition at line 14981 of file DCM.idl.

**8.72.5.2165 IPS\_RefTS\_t DCM::DeviceControl::TR\_TSSettings\_t::TSRef**

The output transport stream reference.

Definition at line 14989 of file DCM.idl.

**8.72.5.2166 IPS\_RefTS\_t DCM::DeviceControl::SMX\_MFP\_TsSettings\_t::TsRef**

Ref of the TS.

Definition at line 16178 of file DCM.idl.

**8.72.5.2167 IPS\_RefTS\_t DCM::DeviceControl::TR\_TsDelay\_t::TsRef**

The TS.

Definition at line 16912 of file DCM.idl.

**8.72.5.2168 IPS\_RefTS\_t DCM::DeviceControl::RipTsSettings\_t::TSRef**

TSRef of TS.



Definition at line 31999 of file DCM.idl.

**8.72.5.2169 IPS\_RefTS\_t DCM::DeviceControl::OutputTsLossTriggerPerTs\_t::TSRef**

TSRef of TS.

Definition at line 32060 of file DCM.idl.

**8.72.5.2170 IPS\_RefTS\_t DCM::DeviceControl::OutputTsLossTriggerBitmapPerTs\_t::TSRef**

TSRef of TS.

Definition at line 32126 of file DCM.idl.

**8.72.5.2171 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableChng::TsRef\_BoardNr**

Definition at line 32298 of file DCM.idl.

**8.72.5.2172 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableDel::TsRef\_BoardNr**

Definition at line 32314 of file DCM.idl.

**8.72.5.2173 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableChng::TsRef\_OnId**

Definition at line 32301 of file DCM.idl.

**8.72.5.2174 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableDel::TsRef\_OnId**

Definition at line 32317 of file DCM.idl.

**8.72.5.2175 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableChng::TsRef\_PortNr**

Definition at line 32299 of file DCM.idl.

**8.72.5.2176 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableDel::TsRef\_PortNr**

Definition at line 32315 of file DCM.idl.

**8.72.5.2177 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableChng::TsRef\_Ref**

Definition at line 32300 of file DCM.idl.

**8.72.5.2178 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableDel::TsRef\_Ref**

Definition at line 32316 of file DCM.idl.

**8.72.5.2179 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableChng::TsRef\_TsId**

Definition at line 32302 of file DCM.idl.

**8.72.5.2180 unsigned long DCM::DCM\_Notifications::Output\_SI\_TableDel::TsRef\_TsId**

Definition at line 32318 of file DCM.idl.

**8.72.5.2181 unsigned short DCM::DeviceControl::OutTS\_TTL\_t::TTL\_Value**

Definition at line 18253 of file DCM.idl.

**8.72.5.2182 unsigned short DCM::DeviceControl::SMX36\_NetworkQoS\_t::TTL\_Value**

TTL ([Time](#) to live) range [1-255].

Definition at line 23642 of file DCM.idl.

**8.72.5.2183 unsigned long DCM::DeviceControl::InPort\_DvbS2\_Status\_t::TunerFrequency**

950000 ' 2150000 KHz

Definition at line 7561 of file DCM.idl.

**8.72.5.2184 GbEFramesTrans\_t DCM::DeviceControl::GbEStatisticsEntry\_t::Tx**

Definition at line 19904 of file DCM.idl.

**8.72.5.2185 eTxClockingMode\_t DCM::DeviceControl::DCG\_InputRTP\_Stream\_V2\_t::TxClock-Mode**

Definition at line 30028 of file DCM.idl.

**8.72.5.2186 eTxClockingMode\_t DCM::DeviceControl::DCG\_InputRTP\_Stream\_V3\_t::TxClock-Mode**

Definition at line 30044 of file DCM.idl.

**8.72.5.2187 ePID\_Type DCM::DeviceControl::EMM\_Data\_t::Type**

Definition at line 2636 of file DCM.idl.

**8.72.5.2188 eRMX\_GroupType\_t DCM::DeviceControl::RMX\_GroupSettings\_t::Type**

Type of group: write-once on creation, read-only after creation.

Definition at line 15641 of file DCM.idl.

**8.72.5.2189 eSMX\_MFP\_GroupType\_t DCM::DeviceControl::SMX\_MFP\_GroupSettings\_t::Type**

Type of group: write-once on creation, read only after creation.

Definition at line 16157 of file DCM.idl.

**8.72.5.2190 eFeatureType DCM::DeviceControl::Feature\_t::Type**

Definition at line 20535 of file DCM.idl.

**8.72.5.2191 MeasureType DCM::DeviceControl::MM\_TypeInfo::Type**

Definition at line 22603 of file DCM.idl.

**8.72.5.2192 MeasureType DCM::DeviceControl::MM\_TypeInfo\_V2::Type**

Definition at line 22620 of file DCM.idl.

**8.72.5.2193 EncoderType DCM::DeviceControl::SMX\_Encoder\_t::Type**

Definition at line 23469 of file DCM.idl.

**8.72.5.2194 SMX36\_AlgorithmType.e DCM::DeviceControl::SMX36\_AlgorithmIdentifier\_t::Type**

Algorithm Type.

Definition at line 23884 of file DCM.idl.

**8.72.5.2195 unsigned short DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::uBitStreamID**

Bit Stream ID.

Definition at line 12680 of file DCM.idl.

**8.72.5.2196 unsigned short DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbySettings\_t::uCompressionBoost10**

Compression Boost times 10 (eg. value 9 will be 0.9 in the GUI). Range [0,10 default]. Only used in custom Dynamic Compression Mode, else ignored and set to 10 or 0 in case of DynComp\_None.

Definition at line 12552 of file DCM.idl.

**8.72.5.2197 unsigned short DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbySettings\_t::uCompressionCut10**

Compression Cut times 10 (eg. value 9 will be 0.9 in the GUI). Range [0,10 default]. Only used in custom Dynamic Compression Mode, else ignored and set to 10 or 0 in case of DynComp\_None.

Definition at line 12551 of file DCM.idl.

**8.72.5.2198 unsigned short DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbySettings\_t::uCompressionScalingFactor10**

For Future functionality. Compression Scaling factor times 10 (eg. value 9 will be 0.9 in the GUI). Range [0,10 default]. Only used in line and custom Dynamic Compression Mode.

Definition at line 12553 of file DCM.idl.

**8.72.5.2199 unsigned long DCM::DeviceControl::MFPB\_VideoEncoderTemplate\_t::uCustomHorizResolution**

Future usage: Custom horizontal resolution only used if enMFPB\_HorizResolution is.

Definition at line 10942 of file DCM.idl.

**8.72.5.2200 unsigned long DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t::uCustomHorizResolution**

Range: [1920-96] Multiple of 16 or one of (1920,1440,1280,1080,960,800,720,640,544,528,480,400,352,320,240,208,176,160,

Definition at line 11349 of file DCM.idl.

**8.72.5.2201 unsigned long DCM::DeviceControl::MFPB\_VideoEncoderTemplate\_t::uCustomVertResolution**

Future usage: Custom vertical resolution only used if enMFPB\_VertResolution is.

Definition at line 10940 of file DCM.idl.

**8.72.5.2202 unsigned long DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t::uCustomVertResolution**

Range: [1080-96] Multiple of 16 or one of (1080,720,600,576,544,480,360,320,288,272,240,224,180,160)

Definition at line 11348 of file DCM.idl.

**8.72.5.2203 unsigned long DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t::uDataRate**

Data Rate (bps)

Definition at line 12682 of file DCM.idl.

**8.72.5.2204 unsigned short DCM::DeviceControl::SMX36\_Community\_t::UdpPort**

Community communication port range: 1024 (0X400) .. 65535.

Definition at line 23675 of file DCM.idl.

**8.72.5.2205 unsigned short DCM::DeviceControl::SMX36\_Pool\_t::UdpPort**

RO UDP Port used to communicate to the SPS.

Definition at line 23784 of file DCM.idl.

**8.72.5.2206 unsigned short DCM::DeviceControl::SMX36\_Pool\_V2\_t::UdpPort**

RO UDP Port used to communicate to the SPS.

Definition at line 23804 of file DCM.idl.

**8.72.5.2207 unsigned short DCM::DeviceControl::EasConfig\_t::UdpPort**

UDP port number the EAS proxy is listening on. When not yet yet configured UdpPort will be 0, meaning that the EAS proxy is not listening on a socket. UdpPorts are unique per network interface.

Definition at line 28988 of file DCM.idl.

**8.72.5.2208 unsigned short DCM::DeviceControl::OutTS\_UdpSize\_t::UdpSize**

Definition at line 18410 of file DCM.idl.

**8.72.5.2209 unsigned long DCM::DeviceControl::GPS\_Settings\_t::ui1PPS\_SliceLevel**

value in mV, range 0..5000mV, steps of 50mV

Definition at line 29092 of file DCM.idl.

**8.72.5.2210 unsigned long DCM::DeviceControl::MIP\_Settings\_t::uiMaximumDelay**

value in 100ns, range 0..1s

Definition at line 29170 of file DCM.idl.

**8.72.5.2211 unsigned long DCM::DeviceControl::TrackingCriterium\_t::ulDescriptorTag**

Definition at line 5053 of file DCM.idl.

**8.72.5.2212** unsigned long DCM::DeviceControl::TR\_ResourceCountingSettings\_t::ulMaxAudio-Bitrate

in bps

Definition at line 14731 of file DCM.idl.

**8.72.5.2213** unsigned long DCM::DeviceControl::TR\_ResourceCountingSettings\_t::ulMaxHD - Bitrate

in bps

Definition at line 14730 of file DCM.idl.

**8.72.5.2214** unsigned long DCM::DeviceControl::TR\_ResourceCountingSettings\_t::ulMaxSD - Bitrate

in bps

Definition at line 14729 of file DCM.idl.

**8.72.5.2215** unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::Underrun

Buffer underrun Following items are -- not to be used -- since they are not applicable in Full-Duplex mode while GbE always runs in Full-Duplex mode.

Definition at line 19889 of file DCM.idl.

**8.72.5.2216** unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::Undersize

Undersized frames.

Definition at line 19872 of file DCM.idl.

**8.72.5.2217** string DCM::DeviceControl::MM\_TypeInfo::Unit

Definition at line 22602 of file DCM.idl.

**8.72.5.2218** string DCM::DeviceControl::MM\_TypeInfo\_V2::Unit

Definition at line 22619 of file DCM.idl.

**8.72.5.2219** unsigned short DCM::DeviceControl::RefProcessorEngineUnit\_t::UnitNr

The unit within a processing engine.

- Multi format processor (MFP) boards have 1 unit per processing engine. UnitNr should always be 0.

Definition at line 10337 of file DCM.idl.

**8.72.5.2220** boolean DCM::DeviceControl::TS\_AutoPassRulesDisableFlags::UnrefRuleDisabled

read-only; true = the unref PID rule is disabled by system; false = the unref PID rule can be configured by the user;

Definition at line 2870 of file DCM.idl.

**8.72.5.2221** boolean DCM::DeviceControl::Scte35Data\_Keyer\_config\_t::Update\_flag

Definition at line 8662 of file DCM.idl.

**8.72.5.2222 unsigned short DCM::DeviceControl::RipBoardSettings::UpdateInterval**

Update interval for RIP messages. Effective interval. Range [1, 300], default 30.

Definition at line 31935 of file DCM.idl.

**8.72.5.2223 unsigned long DCM::DeviceControl::NicTeam\_Settings::UpDelay**

Definition at line 2193 of file DCM.idl.

**8.72.5.2224 unsigned short DCM::DeviceControl::ForbiddenPidRange\_t::UpperPidValue**

Upper limit of the forbidden pid range (should be > LowerPidValue)

Definition at line 3723 of file DCM.idl.

**8.72.5.2225 string DCM::DeviceControl::LogoCfg\_t::UrlRemoteLogo**

URL to remote logo.

Some examles:

`http://ipV4/pathtologo`

•

`http://ipV4:80/pathtologo`

•

`http://`

• `[ipV6]/pathtologo`

`http://`

• `[ipV6]:port/pathtologo` URL of the remote logo. Not applicable if RemoteLogo is false.

Definition at line 13838 of file DCM.idl.

**8.72.5.2226 unsigned short DCM::DeviceControl::GPS\_Status\_t::us1PpsLevelMax**

Definition at line 29187 of file DCM.idl.

**8.72.5.2227 unsigned short DCM::DeviceControl::GPS\_Status\_t::us1PpsLevelMin**

Definition at line 29186 of file DCM.idl.

**8.72.5.2228 unsigned short DCM::DeviceControl::GPS\_Status\_t::us1PpsLevelSlice**

Definition at line 29188 of file DCM.idl.

**8.72.5.2229 unsigned short DCM::DeviceControl::EasConfig\_t::UsageBitmap**

(Read-only) bitmap showing the I/O boards using the proxy. bit0 = main board, bit1 = I/O board 1, bit2 = I/O board 2, etc.

Definition at line 29002 of file DCM.idl.

**8.72.5.2230 long DCM::DeviceControl::FeatureUsage\_t::UsageCount**

the number of licenses in use for this feature.

Definition at line 20698 of file DCM.idl.

**8.72.5.2231 unsigned short DCM::DeviceControl::TrackingCriterium\_t::usCasId**

Definition at line 5056 of file DCM.idl.

**8.72.5.2232 unsigned short DCM::DeviceControl::TR\_ResourceCountingLoads\_t::usCurrentLoad**  
in 0.01%

Definition at line 14738 of file DCM.idl.

**8.72.5.2233 unsigned long DCM::DeviceControl::DPI\_Time\_t::usec**

Definition at line 17080 of file DCM.idl.

**8.72.5.2234 long DCM::DeviceControl::Feature\_t::Used**

Definition at line 20543 of file DCM.idl.

**8.72.5.2235 boolean DCM::DeviceControl::IPS\_SDT\_Data\_t::UseOutputServiceProviderName**

User forced change of output service provider name.

Definition at line 4863 of file DCM.idl.

**8.72.5.2236 boolean DCM::DeviceControl::IPS\_SDT\_Data\_t::UseOutputUserName**

User forced change of output service name.

Definition at line 4861 of file DCM.idl.

**8.72.5.2237 string DCM::DeviceControl::BoardIdentification::UserName**

Definition at line 1286 of file DCM.idl.

**8.72.5.2238 string DCM::DeviceControl::BoardCfg\_t::UserName**

A user defined name. Max. 40 characters.

Definition at line 1660 of file DCM.idl.

**8.72.5.2239 string DCM::DeviceControl::BoardCfg\_V2\_t::UserName**

A user defined name. Max. 40 characters.

Definition at line 1702 of file DCM.idl.

**8.72.5.2240 DvbString.t DCM::DeviceControl::IPS\_Service\_In\_t::UserName**

Maximum string length 255 characters.

Definition at line 4751 of file DCM.idl.

**8.72.5.2241 string DCM::DeviceControl::DescriptorData\_t::UserName**

Definition at line 7830 of file DCM.idl.

**8.72.5.2242 string DCM::DeviceControl::MergedESDescriptorData\_t::UserName**

Definition at line 8030 of file DCM.idl.

**8.72.5.2243 string DCM::DeviceControl::MIP\_SyncTargetSettings\_t::UserName**

Definition at line 21886 of file DCM.idl.

**8.72.5.2244 string DCM::DeviceControl::DCG\_InputTS\_t::UserName**

Definition at line 29996 of file DCM.idl.

**8.72.5.2245 string DCM::DeviceControl::DCG\_OutputTS\_t::UserName**

Definition at line 30095 of file DCM.idl.

**8.72.5.2246 DvbString.t DCM::DeviceControl::TC\_ServiceData\_t::UserTag**

Maximum string length 255 characters.

Definition at line 5017 of file DCM.idl.

**8.72.5.2247 DvbString.t DCM::DeviceControl::TC\_ServiceDataV2\_t::UserTag**

Maximum string length 255 characters < For multires services this tag can be overwritten if settings change.

Definition at line 5607 of file DCM.idl.

**8.72.5.2248 DvbString.t DCM::DeviceControl::DescrServiceData\_t::UserTag**

a human readable user tag for the service. By default equal to the name of the input service, but made unique if necessary by [DescrServiceAddL\(\)](#).

Definition at line 28083 of file DCM.idl.

**8.72.5.2249 DvbString.t DCM::DeviceControl::DescrTS\_Data\_t::UserTag**

A human readable user tag for the TS. DescrTS\_Add will assign a unique default value.

Definition at line 28209 of file DCM.idl.

**8.72.5.2250 DvbString.t DCM::DeviceControl::DescrTS\_Data\_V2\_t::UserTag**

A human readable user tag for the TS. DescrTS\_Add will assign a unique default value.

Definition at line 28233 of file DCM.idl.

**8.72.5.2251 unsigned short DCM::DeviceControl::TrackingCriterium\_t::usInputPid**

Definition at line 5054 of file DCM.idl.

**8.72.5.2252 unsigned short DCM::DeviceControl::TR\_ResourceCountingLoads\_t::usMaxLoad-SimultaneousSplices**

in 0.01%

Definition at line 14740 of file DCM.idl.

**8.72.5.2253 unsigned short DCM::DeviceControl::TR\_ResourceCountingSettings\_t::usMaxNbrOf-Audios**

Definition at line 14732 of file DCM.idl.



**8.72.5.2254** unsigned short DCM::DeviceControl::TR\_ResourceCountingLoads\_t::usMaxReached-Load

in 0.01%

Definition at line 14739 of file DCM.idl.

**8.72.5.2255** unsigned short DCM::DeviceControl::TrackingCriterium\_t::usParentEsOutputPid

Definition at line 5055 of file DCM.idl.

**8.72.5.2256** unsigned short DCM::DeviceControl::ASI\_SFN\_MKII\_TS\_Output\_Mode\_t::uTS-Output\_RDCS

RDCS TS number if eTS\_Output\_Mode is eTS\_Output\_MainandRDCS < Range 0..7, in steps of 1.

Definition at line 29547 of file DCM.idl.

**8.72.5.2257** boolean DCM::DeviceControl::DCG\_AudioSignalInfo\_t::Valid

Valid status.

Definition at line 31207 of file DCM.idl.

**8.72.5.2258** string DCM::DeviceControl::LicenseValidation\_t::ValidationKey

Validation Key.

Definition at line 20617 of file DCM.idl.

**8.72.5.2259** MeasureValidity DCM::DeviceControl::MM\_Measurement::Validity

Definition at line 22578 of file DCM.idl.

**8.72.5.2260** unsigned long long DCM::DeviceControl::FEC\_Dec\_Statistics\_t::ValidPacketCount

Definition at line 19156 of file DCM.idl.

**8.72.5.2261** unsigned long long DCM::DeviceControl::PCTM\_PacketCounters\_t::ValidPackets

Definition at line 20307 of file DCM.idl.

**8.72.5.2262** double DCM::DeviceControl::MM\_Measurement::Value

Definition at line 22577 of file DCM.idl.

**8.72.5.2263** DCG\_VBI\_Defs\_t DCM::DeviceControl::DCG\_JP2K\_params\_t::VBISettings

Definition at line 31314 of file DCM.idl.

**8.72.5.2264** DCG\_VBI\_Defs\_t DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t::VBISettings

Definition at line 31334 of file DCM.idl.

**8.72.5.2265** DCG\_VBI\_Defs\_t DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t::VBISettings

Definition at line 31355 of file DCM.idl.

**8.72.5.2266 unsigned short DCM::DeviceControl::BoardDejitterCfg\_t::VbrLatency**

The VBR dejitter latency in msec, should be 110ms <= latency <= 180.

Definition at line 2961 of file DCM.idl.

**8.72.5.2267 eVBR DCM::DeviceControl::OutTS\_VBR\_t::VBROnOff**

Definition at line 18334 of file DCM.idl.

**8.72.5.2268 eTriBool DCM::DeviceControl::VCT\_Data\_t::VCT\_Present**

Follow Input, Generate (Present), Block (Not Present) < status: true = VCT fragment is present at input (either CVCT or TVCT)

Definition at line 9050 of file DCM.idl.

**8.72.5.2269 string DCM::DeviceControl::Feature\_t::Version**

Max string length 36.

Definition at line 20539 of file DCM.idl.

**8.72.5.2270 string DCM::DeviceControl::LicenseValidation\_t::Version**

Version of the licenses.

Definition at line 20616 of file DCM.idl.

**8.72.5.2271 string DCM::DeviceControl::VersionInfo::VersionName**

MAX string length = 20.

Definition at line 1273 of file DCM.idl.

**8.72.5.2272 unsigned short DCM::DeviceControl::PsipMgtInfo\_t::VersionNumber**

Definition at line 9699 of file DCM.idl.

**8.72.5.2273 char DCM::DeviceControl::VersionParts::VersionType**

'A' for a, 'B' for b, D for demo and V for release

Definition at line 1263 of file DCM.idl.

**8.72.5.2274 VersionParts DCM::DeviceControl::VersionInfo::VersParts**

Definition at line 1274 of file DCM.idl.

**8.72.5.2275 MFPB\_VideoInformationList\_t DCM::DeviceControl::MFPB\_VideoServiceInformation\_t::Video**

Definition at line 10654 of file DCM.idl.

**8.72.5.2276 TC\_VideoList\_t DCM::DeviceControl::TC\_VideoCfg\_t::Video**

Definition at line 13198 of file DCM.idl.

**8.72.5.2277 TC\_VideoInformationList.t DCM::DeviceControl::TC\_VideoServiceInformation\_t::Video**

Definition at line 13205 of file DCM.idl.

**8.72.5.2278 unsigned long DCM::DeviceControl::VideoSignalInfo\_t::VideoBitrate**

Definition at line 30202 of file DCM.idl.

**8.72.5.2279 BitRateSampleList.t DCM::DeviceControl::SMX\_EncVideoBitRate\_t::videoBitRate-Samplelist**

Definition at line 23588 of file DCM.idl.

**8.72.5.2280 unsigned long DCM::DeviceControl::BoardBitrateThreshold::VideoBitrateThreshold**

Bitrate threshold for video PIDs - in bps.

Definition at line 22818 of file DCM.idl.

**8.72.5.2281 SMX36\_VSE\_Codec.e DCM::DeviceControl::SMX36\_VSE\_V3\_t::VideoCodecSetting**

RW, as set on GUI: a way to get valid ranges of min/maxbitrates and check that VSE is still set as expected.

Definition at line 24136 of file DCM.idl.

**8.72.5.2282 SMX36\_VSE\_Codec.e DCM::DeviceControl::SMX36\_VSE\_V4\_t::VideoCodecSetting**

RW, as set on GUI: a way to get valid ranges of min/maxbitrates and check that VSE is still set as expected.

Definition at line 24193 of file DCM.idl.

**8.72.5.2283 SMX36\_VSE\_Codec.e DCM::DeviceControl::SMX36\_VSE\_V3\_t::VideoCodecStatus**

new in V10.20 URC:

- string VideoSEClass from V2 is replaced by VideoCodecStatus and VideoFormatStatus enumerations. Depending on the enumeration, valid min/max range of default/min/max bitrate settings (params) can change.
- When VSE is not preconfigured and thus is a detected VSE, the Status will be copied on the settings.
- When a VSE is preconfigured, the Setting are set in the GUI and Status is Unknown (as VSE is offline).
- Setting can be changed at any time in the GUI.
- When setting does not match status and status is not Unknown (aka VSE is offline) an Alarm will be raised. RO, status as set on VSE: a way to get valid ranges of min/maxbitrates

Definition at line 24134 of file DCM.idl.

**8.72.5.2284 SMX36\_VSE\_Codec.e DCM::DeviceControl::SMX36\_VSE\_V4\_t::VideoCodecStatus**

new in V10.20 URC: See V3

RO, status as set on VSE: a way to get valid ranges of min/maxbitrates

Definition at line 24191 of file DCM.idl.

**8.72.5.2285 MFPB\_ComponentList\_t DCM::DeviceControl::MFPB\_ServiceComponents\_t::Video-Components**

The video pids which can be processed.

Definition at line 10567 of file DCM.idl.

**8.72.5.2286 MFPB\_VideoDecodeList\_t DCM::DeviceControl::MFPB\_VideoDecodeCfg\_t::Video-DecodeList**

Definition at line 10688 of file DCM.idl.

**8.72.5.2287 TC\_VideoDecodeList\_t DCM::DeviceControl::TC\_VideoDecodeCfg\_t::VideoDecodeList**

Definition at line 13184 of file DCM.idl.

**8.72.5.2288 MFPB\_VideoEncodeList\_t DCM::DeviceControl::MFPB\_VideoEncodeCfg\_t::Video-EncodeList**

Definition at line 11044 of file DCM.idl.

**8.72.5.2289 MFPB\_VideoEncodeV2List\_t DCM::DeviceControl::MFPB\_VideoEncodeCfgV2\_t::Video-EncodeList**

Definition at line 11219 of file DCM.idl.

**8.72.5.2290 MFPB\_MultiResVideoEncodeList\_t DCM::DeviceControl::MFPB\_MultiResVideoEncode-Cfg\_t::VideoEncodeList**

Definition at line 11379 of file DCM.idl.

**8.72.5.2291 TC\_VideoEncodeList\_t DCM::DeviceControl::TC\_VideoEncodeCfg\_t::VideoEncodeList**

Definition at line 13191 of file DCM.idl.

**8.72.5.2292 VideoFormats DCM::DeviceControl::SMX\_Encoder\_t::VideoFormat**

Definition at line 23468 of file DCM.idl.

**8.72.5.2293 eVideoFormat\_t DCM::DeviceControl::VideoSignalInfo\_t::VideoFormat**

Definition at line 30205 of file DCM.idl.

**8.72.5.2294 SMX36\_VSE.Format\_e DCM::DeviceControl::SMX36\_VSE\_V3\_t::VideoFormatSetting**

RW, as set on GUI: a way to get valid ranges of min/maxbitrates and check that VSE is still set as expected.

Definition at line 24137 of file DCM.idl.

**8.72.5.2295 SMX36\_VSE.Format\_e DCM::DeviceControl::SMX36\_VSE\_V4\_t::VideoFormatSetting**

RW, as set on GUI: a way to get valid ranges of min/maxbitrates and check that VSE is still set as expected.

Definition at line 24194 of file DCM.idl.

**8.72.5.2296 SMX36\_VSE.Format\_e DCM::DeviceControl::SMX36\_VSE\_V3\_t::VideoFormatStatus**

RO, status as set on VSE: a way to get valid ranges of min/maxbitrates.

Definition at line 24135 of file DCM.idl.

#### **8.72.5.2297 SMX36\_VSE\_Format\_e DCM::DeviceControl::SMX36\_VSE\_V4\_t::VideoFormatStatus**

RO, status as set on VSE: a way to get valid ranges of min/maxbitrates.

Definition at line 24192 of file DCM.idl.

#### **8.72.5.2298 short DCM::DeviceControl::DCG\_InputRTP\_Stream\_t::VideoLineOffset**

between plus and minus 10 (default = 0)

Definition at line 30006 of file DCM.idl.

#### **8.72.5.2299 short DCM::DeviceControl::DCG\_InputRTP\_Stream\_V2\_t::VideoLineOffset**

Definition at line 30029 of file DCM.idl.

#### **8.72.5.2300 long DCM::DeviceControl::DCG\_InputRTP\_Stream\_V3\_t::VideoOffsetDelay**

For Video Gateway: Unit is nanos, ranging from -10000000 to 10000000 in increments of 5 ns. < For Audio Gateway: Unit is frames, ranging from 0 to 191 in increments of 1 frame.

Definition at line 30045 of file DCM.idl.

#### **8.72.5.2301 TC\_ComponentList\_t DCM::DeviceControl::TC\_ServiceComponents\_t::VideoPids**

The video pids which can be transcoded.

Definition at line 13240 of file DCM.idl.

#### **8.72.5.2302 short DCM::DeviceControl::DCG\_InputRTP\_Stream\_t::VideoPixelOffset**

between plus and minus 432(SD)/1320(HD) (default = 0)

Definition at line 30007 of file DCM.idl.

#### **8.72.5.2303 short DCM::DeviceControl::DCG\_InputRTP\_Stream\_V2\_t::VideoPixelOffset**

Definition at line 30030 of file DCM.idl.

#### **8.72.5.2304 unsigned long DCM::DeviceControl::DCG\_JP2K\_params\_t::VideoRate**

Definition at line 31304 of file DCM.idl.

#### **8.72.5.2305 unsigned long DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t::VideoRate**

Definition at line 31324 of file DCM.idl.

#### **8.72.5.2306 unsigned long DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t::VideoRate**

Definition at line 31345 of file DCM.idl.

#### **8.72.5.2307 IPS\_RefTS\_t DCM::DeviceControl::DCG\_CompressionEnable\_t::VideoRef**

Definition at line 31248 of file DCM.idl.

#### **8.72.5.2308 IPS\_RefTS\_t DCM::DeviceControl::DCG\_JP2K\_params\_t::VideoRef**

Definition at line 31302 of file DCM.idl.

**8.72.5.2309 IPS\_RefTS.t DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t::VideoRef**

Definition at line 31322 of file DCM.idl.

**8.72.5.2310 IPS\_RefTS.t DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t::VideoRef**

Definition at line 31343 of file DCM.idl.

**8.72.5.2311 IPS\_RefTS.t DCM::DeviceControl::DCG\_HitlessSwitchOverEnable\_t::VideoRef**

Definition at line 31501 of file DCM.idl.

**8.72.5.2312 string DCM::DeviceControl::SMX36\_VSE\_t::VideoSEClass**

RO Video stream encoder class. String length = 80.

Definition at line 24057 of file DCM.idl.

**8.72.5.2313 string DCM::DeviceControl::SMX36\_VSE\_V2\_t::VideoSEClass**

RO Video stream encoder class. String length = 80.

Definition at line 24076 of file DCM.idl.

**8.72.5.2314 string DCM::DeviceControl::SMX36\_VSE\_t::VideoStreamEncoderName**

RO For future use.

Definition at line 24050 of file DCM.idl.

**8.72.5.2315 string DCM::DeviceControl::SMX36\_VSE\_V2\_t::VideoStreamEncoderName**

RO For future use.

Definition at line 24069 of file DCM.idl.

**8.72.5.2316 string DCM::DeviceControl::SMX36\_VSE\_V3\_t::VideoStreamEncoderName**

RO For future use: (if multi video in vse, not yet used)

Definition at line 24116 of file DCM.idl.

**8.72.5.2317 string DCM::DeviceControl::SMX36\_VSE\_V4\_t::VideoStreamEncoderName**

RO For future use: (if multi video in vse, not yet used)

Definition at line 24167 of file DCM.idl.

**8.72.5.2318 eChannelViewingStatus DCM::DeviceControl::DPI\_ShortChannelStatus\_t::Viewing**

Definition at line 17013 of file DCM.idl.

**8.72.5.2319 VLAN\_Settings.t DCM::DeviceControl::OutTS\_VLAN\_t::VLAN**

Definition at line 18014 of file DCM.idl.

**8.72.5.2320 unsigned long long DCM::DeviceControl::GbEFramesRecv\_t::VLAN**

VLAN tagged frames.

Definition at line 19867 of file DCM.idl.

**8.72.5.2321 unsigned long long DCM::DeviceControl::GbEFramesTrans\_t::VLAN**

VLAN tagged frames.

Definition at line 19886 of file DCM.idl.

**8.72.5.2322 unsigned short DCM::DeviceControl::VlanPortSet\_t::VLANID**

valid range: 1-4094

Definition at line 6684 of file DCM.idl.

**8.72.5.2323 unsigned short DCM::DeviceControl::VLAN\_Settings\_t::VLANID**

range: 0-4094 12 bit, 0x0FFF not allowed, 0=no vlan id, only priority (ieee 802.1Q)

Definition at line 18006 of file DCM.idl.

**8.72.5.2324 eVLAN DCM::DeviceControl::VLAN\_Settings\_t::VLANOnOff**

Definition at line 18002 of file DCM.idl.

**8.72.5.2325 unsigned long DCM::DeviceControl::SMX36\_VSE\_t::VSE\_Property**

Read only Bitmap used by GUI to display specific icons.

Definition at line 24054 of file DCM.idl.

**8.72.5.2326 unsigned long DCM::DeviceControl::SMX36\_VSE\_V2\_t::VSE\_Property**

Read only Bitmap used by GUI to display specific icons.

Definition at line 24073 of file DCM.idl.

**8.72.5.2327 unsigned long DCM::DeviceControl::SMX36\_VSE\_V3\_t::VSE\_Property**

Read only Bitmap used by GUI to display specific icons.

Definition at line 24119 of file DCM.idl.

**8.72.5.2328 unsigned long DCM::DeviceControl::SMX36\_VSE\_V4\_t::VSE\_Property**

Read only Bitmap used by GUI to display specific icons.

Definition at line 24170 of file DCM.idl.

**8.72.5.2329 string DCM::DeviceControl::SMX36\_VSE\_t::VSEName**

RO VSEName of this Video encoding stream. MAX string length = 50.

Definition at line 24049 of file DCM.idl.

**8.72.5.2330 string DCM::DeviceControl::SMX36\_VSE\_V2\_t::VSEName**

RO VSEName of this Video encoding stream. MAX string length = 50.

Definition at line 24068 of file DCM.idl.

**8.72.5.2331 string DCM::DeviceControl::SMX36\_VSE\_V3\_t::VSEName**

RO VSEName of this Video encoding stream. MAX string length = 50, set upon [SMX36\\_VSE\\_Create\(\)](#)

Definition at line 24115 of file DCM.idl.

**8.72.5.2332 string DCM::DeviceControl::SMX36\_VSE\_V4\_t::VSEName**

RO VSEName of this Video encoding stream. MAX string length = 50, set upon [SMX36\\_VSE\\_Create\(\)](#)

Definition at line 24166 of file DCM.idl.

**8.72.5.2333 unsigned short DCM::DeviceControl::SMX36\_Pool\_t::VSEParticipants**

RO The number of VSE running in the pool.

Definition at line 23786 of file DCM.idl.

**8.72.5.2334 unsigned short DCM::DeviceControl::SMX36\_Pool\_V2\_t::VSEParticipants**

RO The number of VSE running in the pool.

Definition at line 23806 of file DCM.idl.

**8.72.5.2335 boolean DCM::DeviceControl::ETV\_EissFilter\_t::WhiteList**

if true, the filter list is a white list and others are blocked

Definition at line 17355 of file DCM.idl.

**8.72.5.2336 boolean DCM::DeviceControl::TC\_CaptionInfo\_t::WideAspectRatio**

1 means 16:9 format; 0 means 4:3 format

Definition at line 10178 of file DCM.idl.

**8.72.5.2337 unsigned short DCM::DeviceControl::SlateData\_t::Width**

Definition at line 10082 of file DCM.idl.

**8.72.5.2338 unsigned short DCM::DeviceControl::MFPB\_VideoResolution\_t::Width**

Definition at line 10603 of file DCM.idl.

**8.72.5.2339 unsigned short DCM::DeviceControl::TC\_VideoResolution\_t::Width**

Definition at line 13077 of file DCM.idl.

**8.72.5.2340 unsigned short DCM::DeviceControl::LogoCfg\_t::X\_Position**

X position in pixels (range [0, 1920]), left is 0.

Definition at line 13814 of file DCM.idl.

**8.72.5.2341 unsigned short DCM::DeviceControl::LogoCfg\_t::Y\_Position**

Y position in pixels (range [0, 1080]), top is 0.

Definition at line 13815 of file DCM.idl.

**8.72.5.2342 long DCM::DeviceControl::Time::Year**

From year 0 onwards.

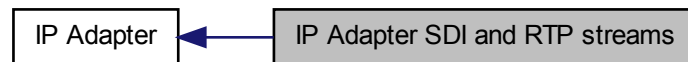
Definition at line 458 of file DCM.idl.



## 8.73 IP Adapter SDI and RTP streams

This contains types, enums and methods to configure the TSs of the multiplexer part in the device.

Collaboration diagram for IP Adapter SDI and RTP streams:



### Classes

- struct `DCM::DeviceControl::DCG_InputTS_t`  
*Information of an incoming TS.*
- struct `DCM::DeviceControl::DCG_InputRTP_Stream_t`  
*Prior to version 9.10: Between 10 and 100 (default 60) A sequence of `DCG_InputTS_t` entries.*
- struct `DCM::DeviceControl::DCG_InputRTP_Stream_V2_t`  
*Prior to version 9.10: Between 10 and 100 (default 60)*
- struct `DCM::DeviceControl::DCG_InputRTP_Stream_V3_t`  
*Prior to version 9.10: Between 10 and 100 (default 60)*
- struct `DCM::DeviceControl::DCG_OutputTS_t`  
*Information-Settings of an outgoing TS.*
- struct `DCM::DeviceControl::DCG_OutputRTP_Stream_t`
- struct `DCM::DeviceControl::DCG_OutputRTP_V2_Stream_t`
- struct `DCM::DeviceControl::DCG_OutputGBE_t`
- struct `DCM::DeviceControl::DCG_OutputFecGBE_t`
- struct `DCM::DeviceControl::RoutingData_t`
- struct `DCM::DeviceControl::VideoSignalInfo_t`
- struct `DCM::DeviceControl::End2End_Delay_t`
- struct `DCM::DeviceControl::DCG_3D_pair_t`
- struct `DCM::DeviceControl::DCG_GeneratorConfig_t`
- struct `DCM::DeviceControl::DCG_AES_GeneratorConfig_t`
- struct `DCM::DeviceControl::NegotiatedGbePortSpeed_t`
- struct `DCM::DeviceControl::InTS_Statistic_t`
- struct `DCM::DeviceControl::InTS_AES_Statistic_t`
- struct `DCM::DeviceControl::DCG_StreamBackupParams_t`
- struct `DCM::DeviceControl::DCG_BackupStream_t`
- struct `DCM::DeviceControl::DCG_Possible3GBoardCfg_t`
- struct `DCM::DeviceControl::DCG_AudioPairInfo_t`
- struct `DCM::DeviceControl::DCG_AudioSignalInfo_t`  
*Describes the audio signal information.*
- struct `DCM::DeviceControl::DCG_CompressionEnable_t`
- struct `DCM::DeviceControl::DCG_VBI_Defs_t`
- struct `DCM::DeviceControl::DCG_JP2K_params_t`

- struct [DCM::DeviceControl::DCG\\_JP2K\\_params\\_V2\\_t](#)
- struct [DCM::DeviceControl::DCG\\_JP2K\\_params\\_V3\\_t](#)
- struct [DCM::DeviceControl::DCG\\_HitlessSwitchOverEnable\\_t](#)

### Typedefs

- typedef sequence< [DCG\\_InputTS\\_t](#) > [DCM::DeviceControl::DCG\\_InputTS\\_List\\_t](#)  
*A sequence of [DCG\\_InputTS\\_t](#) entries.*
- typedef sequence < [DCG\\_InputRTP\\_Stream\\_t](#) > [DCM::DeviceControl::DCG\\_InputRTP\\_Stream-List\\_t](#)
- typedef sequence < [DCG\\_InputRTP\\_Stream\\_V2\\_t](#) > [DCM::DeviceControl::DCG\\_InputRTP\\_Stream-List\\_V2\\_t](#)  
*A sequence of [DCG\\_InputTS\\_t](#) entries.*
- typedef sequence < [DCG\\_InputRTP\\_Stream\\_V3\\_t](#) > [DCM::DeviceControl::DCG\\_InputRTP\\_Stream-List\\_V3\\_t](#)  
*A sequence of [DCG\\_InputTS\\_t](#) entries.*
- typedef sequence< [DCG\\_OutputTS\\_t](#) > [DCM::DeviceControl::DCG\\_OutputTS\\_List\\_t](#)  
*A sequence of [DCG\\_OutputTS\\_t](#) entries.*
- typedef sequence < [DCG\\_OutputRTP\\_Stream\\_t](#) > [DCM::DeviceControl::DCG\\_OutputRTP\\_Stream-List\\_t](#)  
*A sequence of [DCG\\_OutputTS\\_t](#) entries.*
- typedef sequence < [DCG\\_OutputRTP\\_V2\\_Stream\\_t](#) > [DCM::DeviceControl::DCG\\_OutputRTP\\_V2\\_StreamList\\_t](#)  
*A sequence of [DCG\\_OutputRTP\\_V2\\_t](#) entries.*
- typedef sequence< [DCG\\_OutputGBE\\_t](#) > [DCM::DeviceControl::DCG\\_OutputGBE\\_List\\_t](#)  
*A sequence of [DCG\\_OutputGBE\\_t](#) entries.*
- typedef sequence < [DCG\\_OutputFecGBE\\_t](#) > [DCM::DeviceControl::DCG\\_OutputFecGBE\\_List\\_t](#)  
*A sequence of [DCG\\_OutputFecGBE\\_t](#) entries.*
- typedef sequence< [RoutingData\\_t](#) > [DCM::DeviceControl::RoutingDataList\\_t](#)  
*A sequence of [IPS\\_OutPID\\_Data\\_t](#).*
- typedef sequence < [VideoSignalInfo\\_t](#) > [DCM::DeviceControl::VideoSignalInfoList\\_t](#)
- typedef sequence< [End2End\\_Delay\\_t](#) > [DCM::DeviceControl::End2End\\_DelayList\\_t](#)
- typedef sequence< [DCG\\_3D\\_pair\\_t](#) > [DCM::DeviceControl::DCG\\_3D\\_pair\\_List\\_t](#)
- typedef sequence < [DCG\\_GeneratorConfig\\_t](#) > [DCM::DeviceControl::DCG\\_GeneratorConfigList\\_t](#)
- typedef sequence < [DCG\\_AES\\_GeneratorConfig\\_t](#) > [DCM::DeviceControl::DCG\\_AES\\_Generator-ConfigList\\_t](#)
- typedef sequence < [NegotiatedGbePortSpeed\\_t](#) > [DCM::DeviceControl::NegotiatedGbePortSpeed-List\\_t](#)
- typedef sequence < [InTS\\_Statistic\\_t](#) > [DCM::DeviceControl::InTS\\_Statistic\\_List\\_t](#)
- typedef sequence < [InTS\\_AES\\_Statistic\\_t](#) > [DCM::DeviceControl::InTS\\_AES\\_Statistic\\_List\\_t](#)
- typedef sequence < [DCG\\_StreamBackupParams\\_t](#) > [DCM::DeviceControl::DCG\\_StreamBackup-ParamsList\\_t](#)
- typedef sequence < [DCG\\_BackupStream\\_t](#) > [DCM::DeviceControl::DCG\\_BackupStreamList\\_t](#)
- typedef sequence < [DCG\\_Possible3GBoardCfg\\_t](#) > [DCM::DeviceControl::DCG\\_Possible3GBoard-CfgList\\_t](#)
- typedef unsigned long [DCM::DeviceControl::DCG\\_AudioID\\_t](#)  
*IDLs for implementing JPEG2000 functionality on the IP Gateway.*

- typedef sequence < DCG\_AudioPairInfo\_t > [DCM::DeviceControl::DCG\\_AudioPairInfo\\_List\\_t](#)
- typedef sequence < DCG\_AudioSignalInfo\_t > [DCM::DeviceControl::DCG\\_AudioSignalInfoList\\_t](#)
- typedef sequence < DCG\_CompressionEnable\_t > [DCM::DeviceControl::DCG\\_CompressionEnableList\\_t](#)
- typedef sequence< unsigned short > [DCM::DeviceControl::DCG\\_VBI\\_Lines\\_t](#)
- typedef sequence < DCG\_JP2K\_params\_t > [DCM::DeviceControl::DCG\\_JP2K\\_paramsList\\_t](#)
- typedef sequence < DCG\_JP2K\_params\_V2\_t > [DCM::DeviceControl::DCG\\_JP2K\\_paramsList\\_V2\\_t](#)
- typedef sequence < DCG\_JP2K\_params\_V3\_t > [DCM::DeviceControl::DCG\\_JP2K\\_paramsList\\_V3\\_t](#)
- typedef sequence < DCG\_HitlessSwitchOverEnable\_t > [DCM::DeviceControl::DCG\\_HitlessSwitchOverEnable\\_List\\_t](#)

### Enumerations

- enum [DCM::DeviceControl::eVideoFormat\\_t](#) { [DCM::DeviceControl::eSD](#), [DCM::DeviceControl::eHD](#), [DCM::DeviceControl::e3G](#), [DCM::DeviceControl::eAES](#), [DCM::DeviceControl::eVideoFormat\\_Reserved1](#), [DCM::DeviceControl::eVideoFormat\\_Reserved2](#), [DCM::DeviceControl::eVideoFormat\\_Reserved3](#) }
- enum [DCM::DeviceControl::eTxClockingMode\\_t](#) { [DCM::DeviceControl::eFreeRunning](#), [DCM::DeviceControl::eAdaptiveRecovery](#), [DCM::DeviceControl::eGenLocked](#) }  
*Describes the output clocking mode when RTP is routed to SDI.*
- enum [DCM::DeviceControl::eDCG\\_StreamingState](#) { [DCM::DeviceControl::DCG\\_Streaming\\_Active](#), [DCM::DeviceControl::DCG\\_Streaming\\_Paused](#), [DCM::DeviceControl::eDCG\\_Streaming\\_Reserved1](#), [DCM::DeviceControl::eDCG\\_Streaming\\_Reserved2](#), [DCM::DeviceControl::eDCG\\_Streaming\\_Reserved3](#) }  
*Describes if the TS is streaming or not.*
- enum [DCM::DeviceControl::eGbePortType\\_t](#) { [DCM::DeviceControl::eGbePort\\_PairType](#), [DCM::DeviceControl::eGbePort\\_IndividualType](#) }
- enum [DCM::DeviceControl::eFrameRate\\_t](#) { [DCM::DeviceControl::e24fps](#), [DCM::DeviceControl::e25fps](#), [DCM::DeviceControl::e30fps](#), [DCM::DeviceControl::e50fps](#), [DCM::DeviceControl::e60fps](#), [DCM::DeviceControl::e29\\_97fps](#), [DCM::DeviceControl::e59\\_94fps](#), [DCM::DeviceControl::eDCG\\_FramerRate\\_Reserved1](#), [DCM::DeviceControl::eDCG\\_FramerRate\\_Reserved2](#), [DCM::DeviceControl::eDCG\\_FramerRate\\_Reserved3](#), [DCM::DeviceControl::eDCG\\_FramerRate\\_Reserved4](#), [DCM::DeviceControl::eDCG\\_FramerRate\\_Reserved5](#) }
- enum [DCM::DeviceControl::eAspectRatio\\_t](#) { [DCM::DeviceControl::e4\\_3](#), [DCM::DeviceControl::e16\\_9](#), [DCM::DeviceControl::e14\\_9](#), [DCM::DeviceControl::eNot\\_Available](#), [DCM::DeviceControl::eAspectRatio\\_Reserved2](#), [DCM::DeviceControl::eAspectRatio\\_Reserved3](#), [DCM::DeviceControl::eAspectRatio\\_Reserved4](#), [DCM::DeviceControl::eAspectRatio\\_Reserved5](#) }
- enum [DCM::DeviceControl::eFrameBuildUp\\_t](#) { [DCM::DeviceControl::eProgressive](#), [DCM::DeviceControl::eInterlaced](#), [DCM::DeviceControl::eFrameBuildUp\\_Reserved1](#), [DCM::DeviceControl::eFrameBuildUp\\_Reserved2](#), [DCM::DeviceControl::eFrameBuildUp\\_Reserved3](#) }
- enum [DCM::DeviceControl::eSDI\\_GeneratorMode\\_t](#) { [DCM::DeviceControl::e3G\\_1080P\\_60](#), [DCM::DeviceControl::e3G\\_1080P\\_59\\_94](#), [DCM::DeviceControl::e3G\\_1080P\\_50](#), [DCM::DeviceControl::eHD\\_1080P\\_30](#), [DCM::DeviceControl::eHD\\_1080P\\_29\\_97](#), [DCM::DeviceControl::eHD\\_1080P\\_25](#), [DCM::DeviceControl::eHD\\_720P\\_60](#), [DCM::DeviceControl::eHD\\_720P\\_59\\_94](#), [DCM::DeviceControl::eHD\\_720P\\_50](#), [DCM::DeviceControl::eHD\\_1080I\\_30](#), [DCM::DeviceControl::eHD\\_1080I\\_29\\_97](#), [DCM::DeviceControl::eHD\\_1080I\\_25](#), [DCM::DeviceControl::eSD\\_525I\\_29\\_97](#), [DCM::DeviceControl::eSD\\_625I\\_25](#), [DCM::DeviceControl::eSDI\\_GeneratorMode\\_Reserved1](#), [DCM::DeviceControl::eSDI\\_GeneratorMode\\_Reserved2](#), [DCM::DeviceControl::eSDI\\_GeneratorMode\\_Reserved3](#) }

- enum DCM::DeviceControl::eSDI\_ColorOutputMode\_t { DCM::DeviceControl::eOM\_Static, DCM::DeviceControl::eOM\_RGB\_Cycling, DCM::DeviceControl::eOM\_Reserved1, DCM::DeviceControl::eOM\_Reserved2, DCM::DeviceControl::eOM\_Reserved3 }
- enum DCM::DeviceControl::eAES\_SampleRate\_t { DCM::DeviceControl::eAES\_SampleRate\_48k-Hz, DCM::DeviceControl::eAES\_SampleRate\_Reserved1, DCM::DeviceControl::eAES\_SampleRate\_Reserved2, DCM::DeviceControl::eAES\_SampleRate\_Reserved3 }
- enum DCM::DeviceControl::eAES\_WaveMode\_t { DCM::DeviceControl::eAES\_WaveMode\_PureTone, DCM::DeviceControl::eAES\_WaveMode\_Reserved1, DCM::DeviceControl::eAES\_WaveMode\_Reserved2, DCM::DeviceControl::eAES\_WaveMode\_Reserved3 }
- enum DCM::DeviceControl::eAES\_WaveModeDetail\_t { DCM::DeviceControl::eAES\_PureTone\_Silence, DCM::DeviceControl::eAES\_PureTone\_100Hz, DCM::DeviceControl::eAES\_PureTone\_500Hz, DCM::DeviceControl::eAES\_WaveModeDetail\_Reserved1, DCM::DeviceControl::eAES\_WaveModeDetail\_Reserved2, DCM::DeviceControl::eAES\_WaveModeDetail\_Reserved3 }
- enum DCM::DeviceControl::eNegotiatedGbePortSpeed\_t { DCM::DeviceControl::ePortSpeed\_NotAvailable, DCM::DeviceControl::ePortSpeed\_10Mbps, DCM::DeviceControl::ePortSpeed\_100Mbps, DCM::DeviceControl::ePortSpeed\_1Gbps, DCM::DeviceControl::ePortSpeed\_10Gbps, DCM::DeviceControl::ePortSpeed\_Reserved1, DCM::DeviceControl::ePortSpeed\_Reserved2 }
- enum DCM::DeviceControl::eDCG\_StreamBackupMode\_t { DCM::DeviceControl::eNonRevertive, DCM::DeviceControl::eRevertive, DCM::DeviceControl::eFloating, DCM::DeviceControl::eReserved1, DCM::DeviceControl::eReserved2, DCM::DeviceControl::eReserved3, DCM::DeviceControl::eReserved4, DCM::DeviceControl::eReserved5 }

*IDLs for implementing Stream backup on the IP Adapter.*

- enum DCM::DeviceControl::enDCG\_3G\_Topology\_t { DCM::DeviceControl::eNo3G, DCM::DeviceControl::eOne3G, DCM::DeviceControl::eTwo3G, DCM::DeviceControl::eThree3G, DCM::DeviceControl::eReserved\_DCG\_3G\_1, DCM::DeviceControl::eReserved\_DCG\_3G\_2, DCM::DeviceControl::eReserved\_DCG\_3G\_3 }
- enum DCM::DeviceControl::enDCG\_AudioStatus\_t { DCM::DeviceControl::eAudioSt\_NotPresent, DCM::DeviceControl::eAudioSt\_Present, DCM::DeviceControl::eAudioSt\_Error }

*Describes Status of an audio channel (left or right).*

- enum DCM::DeviceControl::enDCG\_AudioResolution\_t { DCM::DeviceControl::eDCG\_AudioResolution\_20bit, DCM::DeviceControl::eDCG\_AudioResolution\_24bit, DCM::DeviceControl::eDCG\_AudioResolution\_Invalid, DCM::DeviceControl::eReserved\_AudioResolution1 }
- enum DCM::DeviceControl::enDCG\_CompressionMode\_t { DCM::DeviceControl::eUncompressed, DCM::DeviceControl::eEnableJP2K, DCM::DeviceControl::eCompressionEnable\_Reserved1, DCM::DeviceControl::eCompressionEnable\_Reserved2, DCM::DeviceControl::eCompressionEnable\_Reserved3, DCM::DeviceControl::eCompressionEnable\_Reserved4 }
- enum DCM::DeviceControl::enDCG\_JP2K\_CompressionMode\_t { DCM::DeviceControl::e9\_7, DCM::DeviceControl::e5\_3, DCM::DeviceControl::eJP2K\_CompressionMode\_Reserved }
- enum DCM::DeviceControl::enDCG\_JP2K\_Topology\_t { DCM::DeviceControl::e3Dec\_3Enc, DCM::DeviceControl::e3Dec, DCM::DeviceControl::e3Enc, DCM::DeviceControl::e6Dec, DCM::DeviceControl::e6Enc, DCM::DeviceControl::eTopology\_JP2K\_Reserved1, DCM::DeviceControl::eTopology\_JP2K\_Reserved2, DCM::DeviceControl::eTopology\_JP2K\_Reserved3, DCM::DeviceControl::eTopology\_JP2K\_Reserved4, DCM::DeviceControl::eTopology\_JP2K\_Reserved5, DCM::DeviceControl::eTopology\_JP2K\_Reserved6 }
- enum DCM::DeviceControl::enDCG\_HitlessSwitchOverMode\_t { DCM::DeviceControl::eDisableHitlessSwitchOver, DCM::DeviceControl::eEnableHitlessSwitchOver, DCM::DeviceControl::eHitless\_Reserved1, DCM::DeviceControl::eHitlessReserved2, DCM::DeviceControl::eHitlessReserved3, DCM::DeviceControl::eHitlessReserved4 }

## Functions

- void [DCM::DeviceControl::SDI\\_OutTS\\_ChangeL](#) (in IPS\_Ref\_t RefPhys, in DCG\_OutputTS\_List\_t OutputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)  
*Change the parameters of one or more existing outgoing SDI or AES streams.*
- DCG\_OutputTS\_List\_t [DCM::DeviceControl::SDI\\_OutTS\\_GetL](#) (in IPS\_Ref\_t RefPhys) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get a list of outgoing SDI or AES streams and their parameters.*
- void [DCM::DeviceControl::OutputRTP\\_StreamAddL](#) (in IPS\_Ref\_t RefPhys, in unsigned long Nbr-OutTS, out DCG\_OutputRTP\_StreamList\_t OutputStreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Create a number of output RTP streams on given Slot and Port based on the defined defaults (DCG\_OutDefaultsSet(), DCG\_OutDefaultsGet()).*
- void [DCM::DeviceControl::OutputRTP\\_StreamChangeL](#) (in IPS\_Ref\_t RefPhys, in DCG\_OutputRTP\_StreamList\_t OutputStreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)  
*Change the parameters of one or more existing outgoing RTP streams.*
- void [DCM::DeviceControl::OutputRTP\\_V2\\_StreamChangeL](#) (in IPS\_Ref\_t RefPhys, in DCG\_OutputRTP\_V2\_StreamList\_t OutputStreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)  
*This function is similar to [OutputRTP\\_StreamChangeL\(\)](#) above, except for the list of elements returned is not a list of [DCG\\_OutputRTP\\_Stream\\_t](#) but a list of [DCG\\_OutputRTP\\_V2\\_Stream\\_t](#) which differs in that the latter does not contain the destination UDP socket, but a contain an enum saying whether the associated GbE ports with this OutRTP is a pair or individual port.*
- DCG\_OutputRTP\_StreamList\_t [DCM::DeviceControl::OutputRTP\\_StreamGetL](#) (in IPS\_Ref\_t RefPhys, in Ref\_List\_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get a list of outgoing RTP streams and their parameters.*
- DCG\_OutputRTP\_V2\_StreamList\_t [DCM::DeviceControl::OutputRTP\\_V2\\_StreamGetL](#) (in IPS\_Ref\_t RefPhys, in Ref\_List\_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get a list of outgoing RTP streams and their parameters.*
- void [DCM::DeviceControl::OutputGBE\\_ChangeL](#) (in unsigned short Board, in DCG\_OutputGBE\_List\_t OutputGBE\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)  
*Change the parameters of one or more existing outgoing GBE streams.*
- DCG\_OutputGBE\_List\_t [DCM::DeviceControl::OutputGBE\\_GetL](#) (in unsigned short Board, in IPS\_RefTS\_List\_t RefTsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get a list of outgoing GBE streams and their parameters.*
- void [DCM::DeviceControl::OutputFecGBE\\_ChangeL](#) (in unsigned short Board, in DCG\_OutputFecGBE\_List\_t OutputFecGBE\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)  
*Change the parameters of one or more existing outgoing FEC GBE streams.*
- DCG\_OutputFecGBE\_List\_t [DCM::DeviceControl::OutputFecGBE\\_GetL](#) (in unsigned short Board, in IPS\_RefTS\_List\_t RefTsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get a list of outgoing GBE streams and their parameters.*
- DCG\_InputTS\_List\_t [DCM::DeviceControl::SDI\\_InTS\\_GetL](#) (in IPS\_Ref\_t PhysRef) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of incoming SDI streams.*

- void [DCM::DeviceControl::SDI\\_InTS\\_ChangeL](#) (in IPS\_Ref\_t RefPhys, in DCG\_InputTS\_List\_t InputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Change the parameters of one or more existing input SDI streams.*

- void [DCM::DeviceControl::InputRTP\\_StreamChangeL](#) (in IPS\_Ref\_t RefPhys, in DCG\_InputRTP\_StreamList\_t InputStreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

*Change the parameters of one or more existing input RTP streams.*

- void [DCM::DeviceControl::InputRTP\\_StreamChangeL\\_V2](#) (in IPS\_Ref\_t RefPhys, in DCG\_InputRTP\_StreamList\_V2\_t InputStreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)
- void [DCM::DeviceControl::InputRTP\\_StreamChangeL\\_V3](#) (in IPS\_Ref\_t RefPhys, in DCG\_InputRTP\_StreamList\_V3\_t InputStreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

*Similar to the above, except the genlock value is specified in units of time.*

- DCG\_InputRTP\_StreamList\_t [DCM::DeviceControl::InputRTP\\_StreamGetL](#) (in IPS\_Ref\_t RefPhys, in Ref\_List\_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of input RTP streams and their parameters.*

- DCG\_InputRTP\_StreamList\_V2\_t [DCM::DeviceControl::InputRTP\\_StreamGetL\\_V2](#) (in IPS\_Ref\_t RefPhys, in Ref\_List\_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
- DCG\_InputRTP\_StreamList\_V3\_t [DCM::DeviceControl::InputRTP\\_StreamGetL\\_V3](#) (in IPS\_Ref\_t RefPhys, in Ref\_List\_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Similar to the above, except the genlock value is specified in units of time.*

- void [DCM::DeviceControl::DCG\\_ApplyRoutings](#) (in unsigned short SlotNumber, in RoutingData\_List\_t RoutingDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OutOfRange, OperationFailed)

*Add a routing source to a number of output transport streams.*

- void [DCM::DeviceControl::DCG\\_InTS\\_DeleteL](#) (in IPS\_Ref\_t RefPhys, in IPS\_RefTS\_List\_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete a list of input TSs.*

- void [DCM::DeviceControl::DCG\\_OutTS\\_DeleteL](#) (in IPS\_Ref\_t RefPhys, in IPS\_RefTS\_List\_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete a list of output TSs.*

- void [DCM::DeviceControl::GetVideoSignalInfos](#) (in unsigned short SlotNumber, in IPS\_RefTS\_List\_t RefList, out VideoSignalInfoList\_t SignalInfoList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the (video) signal information from an input SDI signal or from an input RTP transport stream.*

- void [DCM::DeviceControl::GetEndToEndDelaysL](#) (in unsigned short SlotNumber, in IPS\_RefTS\_List\_t RefList, out End2End\_DelayList\_t DelayList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the end to end delay that was introduced for an output transport stream.*

- void [DCM::DeviceControl::Pair3D\\_AddL](#) (in unsigned short Board, in DCG\_3D\_pair\_List\_t l) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Add 3D pairs, given in a list.*

- void [DCM::DeviceControl::Out\\_Pair3D\\_AddL](#) (in unsigned short Board, in DCG\_3D\_pair\_List\_t l) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)



- void [DCM::DeviceControl::In\\_Pair3D\\_AddL](#) (in unsigned short Board, in DCG\_3D\_pair\_List\_t l) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
- void [DCM::DeviceControl::Pair3D\\_DeleteL](#) (in unsigned short Board, in DCG\_3D\_pair\_List\_t l) raises (Timeout, OpNotSucceeded, OpNotAllowed, OperationFailed)

*Delete 3D pairs, given in a list.*

- void [DCM::DeviceControl::Out\\_Pair3D\\_DeleteL](#) (in unsigned short Board, in DCG\_3D\_pair\_List\_t l) raises (Timeout, OpNotSucceeded, OpNotAllowed, OperationFailed)
- void [DCM::DeviceControl::In\\_Pair3D\\_DeleteL](#) (in unsigned short Board, in DCG\_3D\_pair\_List\_t l) raises (Timeout, OpNotSucceeded, OpNotAllowed, OperationFailed)
- DCG\_3D\_pair\_List\_t [DCM::DeviceControl::Pair3D\\_GetL](#) (in unsigned short Board) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of 3d paired SDI streams input or output.*

- DCG\_3D\_pair\_List\_t [DCM::DeviceControl::Out\\_Pair3D\\_GetL](#) (in unsigned short Board) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
- DCG\_3D\_pair\_List\_t [DCM::DeviceControl::In\\_Pair3D\\_GetL](#) (in unsigned short Board) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
- void [DCM::DeviceControl::DCG\\_ASIG\\_Set\\_3D](#) (in unsigned short Board, in boolean enabled) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set stream 1 and 2 to 3D paired on an ASI board.*

- boolean [DCM::DeviceControl::DCG\\_ASIG\\_Get\\_3D](#) (in unsigned short Board) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get whether stream 1 and 2 is 3D paired on an ASI board.*

- void [DCM::DeviceControl::GetSDI\\_GeneratorConfigs](#) (in unsigned short BoardNbr, in IPS\_RefTS\_List\_t RefList, out DCG\_GeneratorConfigList\_t ConfigList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the list of available SDI test signal generators and their configuration Also returns the references for the SDI generators.*

- void [DCM::DeviceControl::SetSDI\\_GeneratorConfigs](#) (in unsigned short BoardNbr, in DCG\_GeneratorConfigList\_t ConfigList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Configure a number of SDI test signal generators.*

- void [DCM::DeviceControl::GetAES\\_GeneratorConfigs](#) (in unsigned short BoardNbr, in IPS\_RefTS\_List\_t RefList, out DCG\_AES\_GeneratorConfigList\_t ConfigList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the list of available AES test signal generators and their configuration Also returns the references for the AES generators.*

- void [DCM::DeviceControl::SetAES\\_GeneratorConfigs](#) (in unsigned short BoardNbr, in DCG\_AES\_GeneratorConfigList\_t ConfigList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Configure a number of AES test signal generators.*

- void [DCM::DeviceControl::NegotiatedGbePortSpeed\\_GetL](#) (in unsigned short BoardNumber, out NegotiatedGbePortSpeed\_List\_t NegotiatedGbePortSpeedList) raises (Timeout, OpNotAllowed, OpNotSupported, OperationFailed)

*Retrieves the negotiated GbE port speeds for each GbE port.*

- void [DCM::DeviceControl::InTS\\_Statistic\\_GetL](#) (in unsigned short SlotNumber, in IPS\_RefTS\_List\_t RefList, out InTS\_Statistic\_List\_t StatisticList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Applicable for release 7.5.*

- void [DCM::DeviceControl::InTS\\_Statistic\\_Reset](#) (in unsigned short SlotNumber) raises (Timeout, OpNotAllowed, OpNotSupported, OperationFailed)

*Applicable for release 7.5.*

- void [DCM::DeviceControl::InTS\\_AES\\_Statistic\\_GetL](#) (in unsigned short SlotNumber, in IPS\_RefTS\_List\_t RefList, out InTS\_AES\_Statistic\_List\_t StatisticList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Applicable for release 11.10.*

- void [DCM::DeviceControl::InTS\\_AES\\_Statistic\\_Reset](#) (in unsigned short SlotNumber) raises (Timeout, OpNotAllowed, OpNotSupported, OperationFailed)

*Applicable for release 11.10.*

- void [DCM::DeviceControl::DCG\\_SetStreamBU\\_Params](#) (in IPS\_Ref\_t RefPhys, in DCG\_StreamBackupParamsList\_t StreamBackupParamsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Sets the StreamBackup parameters for an output service.*

- DCG\_StreamBackupParamsList\_t [DCM::DeviceControl::DCG\\_GetStreamBU\\_Params](#) (in IPS\_Ref\_t RefPhys, in Ref\_List\_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the StreamBackup parameters for an output service.*

- void [DCM::DeviceControl::DCG\\_SetBU\\_Streams](#) (in IPS\_Ref\_t RefPhys, in DCG\_BackupStreamList\_t BU\_StreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Sets the backup streams for each output stream.*

- DCG\_BackupStreamList\_t [DCM::DeviceControl::DCG\\_GetBU\\_Streams](#) (in IPS\_Ref\_t RefPhys, in Ref\_List\_t RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the configured main/backup pairs for the requested reference.*

- void [DCM::DeviceControl::DCG\\_SetActiveInputStream](#) (in IPS\_RefTS\_t OutStream, in IPS\_RefTS\_t ActiveInStream) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Sets the active stream for the specified output.*

- void [DCM::DeviceControl::DCG\\_GetActiveInputStream](#) (in IPS\_RefTS\_t OutStream, out IPS\_RefTS\_t ActiveInStream) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the active stream for the specified output.*

- void [DCM::DeviceControl::BoardCfgSet3GTopology](#) (in unsigned short SlotNumber, in enDCG\_3G\_Topology\_t BoardCfg\_3G) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set IPGW board configuration for 3G streams.*

- void [DCM::DeviceControl::BoardCfgGet3GTopology](#) (in unsigned short SlotNumber, out enDCG\_3G\_Topology\_t BoardCfg\_3G) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get IPGW board configuration for 3G streams.*

- void [DCM::DeviceControl::GetPossible3GTopology](#) (in unsigned short SlotNumber, out DCG\_Possible3GBoardCfgList\_t BoardCfgList\_3G) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of all board configurations and whether they can be applied or not.*

- void [DCM::DeviceControl::DCG\\_GetAudioSignalInfo](#) (in unsigned short BoardNr, in IPS\_RefTS\_List\_t RefList, out DCG\_AudioSignalInfoList\_t SignalInfoList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the (audio) signal information from an input AES signal.*



- void [DCM::DeviceControl::DCG\\_GetCompressionMode](#) (in IPS\_Ref\_t RefPhys, in Ref\_List\_t RefList, out DCG\_CompressionEnableList\_t CompressionEnableList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Gets the Compression setting for RTP streams.*
- void [DCM::DeviceControl::DCG\\_SetCompressionMode](#) (in IPS\_Ref\_t RefPhys, in DCG\_CompressionEnableList\_t CompressionEnableList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Sets the compression setting for RTP streams This function can be used for input as well as output streams.*
- void [DCM::DeviceControl::DCG\\_GetJP2K\\_Params](#) (in IPS\_Ref\_t RefPhys, in Ref\_List\_t RefList, out DCG\_JP2K\_paramsList\_t JP2K\_paramsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Gets the JPEG2000 settings from an output JP2K stream.*
- void [DCM::DeviceControl::DCG\\_GetJP2K\\_Params\\_V2](#) (in IPS\_Ref\_t RefPhys, in Ref\_List\_t RefList, out DCG\_JP2K\_paramsList\_V2\_t JP2K\_paramsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*This function is similar to [DCG\\_GetJP2K\\_Params\(\)](#) above, except for the list of elements returned is not a list of DCG\_JP2K\_paramsList\_t but a list of DCG\_JP2K\_paramsList\_V2\_t which differs in that the latter have an extra tributary, bEnableVPS.*
- void [DCM::DeviceControl::DCG\\_GetJP2K\\_Params\\_V3](#) (in IPS\_Ref\_t RefPhys, in Ref\_List\_t RefList, out DCG\_JP2K\_paramsList\_V3\_t JP2K\_paramsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*This function is similar to [DCG\\_GetJP2K\\_Params\\_V2\(\)](#) above, except for the list of elements returned is not a list of DCG\_JP2K\_paramsList\_V2\_t but a list of DCG\_JP2K\_paramsList\_V3\_t which differs in that the latter have an extra element, bSDI20BitAudio.*
- void [DCM::DeviceControl::DCG\\_SetJP2K\\_Params](#) (in IPS\_Ref\_t RefPhys, in DCG\_JP2K\_paramsList\_t JP2K\_paramsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Sets the JPEG200 parameters for an output JP2K stream.*
- void [DCM::DeviceControl::DCG\\_SetJP2K\\_Params\\_V2](#) (in IPS\_Ref\_t RefPhys, in DCG\_JP2K\_paramsList\_V2\_t JP2K\_paramsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*This function is similar to [DCG\\_SetJP2K\\_Params\(\)](#) above, except for the list of elements returned is not a list of DCG\_JP2K\_paramsList\_t but a list of DCG\_JP2K\_paramsList\_V2\_t which differs in that the latter have an extra tributary, bEnableVPS.*
- void [DCM::DeviceControl::DCG\\_SetJP2K\\_Params\\_V3](#) (in IPS\_Ref\_t RefPhys, in DCG\_JP2K\_paramsList\_V3\_t JP2K\_paramsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*This function is similar to [DCG\\_SetJP2K\\_Params\\_V2\(\)](#) above, except for the list of elements input is not a list of DCG\_JP2K\_paramsList\_V2\_t but a list of DCG\_JP2K\_paramsList\_V3\_t which differs in that the latter have an extra element, bSDI20BitAudio.*
- void [DCM::DeviceControl::BoardCfgSetJP2KTopology](#) (in unsigned short SlotNumber, in enDCG\_JP2K\_Topology\_t JP2K\_BoardCfg) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Set JPEG 2000 board configuration.*
- void [DCM::DeviceControl::BoardCfgGetJP2KTopology](#) (in unsigned short SlotNumber, out enDCG\_JP2K\_Topology\_t JP2K\_BoardCfg) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get JPEG 2000 board configuration.*
- void [DCM::DeviceControl::DCG\\_GetHitlessSwitchOverMode](#) (in IPS\_Ref\_t RefPhys, in Ref\_List\_t RefList, out DCG\_HitlessSwitchOverEnableList\_t HitlessSwitchOverEnableList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the HitlessSwitchOver setting for RTP streams.*

- void [DCM::DeviceControl::DCG\\_SetHitlessSwitchOverMode](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_HitlessSwitchOverEnable\\_List\\_t](#) HitlessSwitchOverEnableList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed, LicenseError)

*Sets the HitlessSwitchOver setting for RTP streams.*

## Variables

- const unsigned long [DCM::DeviceControl::DCG\\_BITMAP\\_OUTPUT\\_TS\\_RTP\\_ON](#) = 0x8
- const unsigned long [DCM::DeviceControl::DCG\\_BITMAP\\_OUTPUT\\_TS\\_VLAN\\_ON](#) = 0x10
- const unsigned long [DCM::DeviceControl::DCG\\_BITMAP\\_OUTPUT\\_TS\\_VBR\\_ON](#) = 0x20
- const unsigned long [DCM::DeviceControl::DCG\\_BITMAP\\_OUTPUT\\_TS\\_FEC\\_COL\\_PRESENT](#) = 0x200

*Will be set when FEC column stream is enabled.*

- const unsigned long [DCM::DeviceControl::DCG\\_BITMAP\\_OUTPUT\\_TS\\_FEC\\_ROW\\_PRESENT](#) = 0x400

*Will be set when FEC row stream is enabled.*

### 8.73.1 Detailed Description

This contains types, enums and methods to configure the TSs of the multiplexer part in the device.

### 8.73.2 Typedef Documentation

#### 8.73.2.1 typedef sequence<[DCG\\_3D\\_pair\\_t](#)> [DCM::DeviceControl::DCG\\_3D\\_pair\\_List\\_t](#)

Definition at line 30226 of file [DCM.idl](#).

#### 8.73.2.2 typedef sequence<[DCG\\_AES\\_GeneratorConfig\\_t](#)> [DCM::DeviceControl::DCG\\_AES\\_GeneratorConfigList\\_t](#)

Definition at line 30813 of file [DCM.idl](#).

#### 8.73.2.3 typedef unsigned long [DCM::DeviceControl::DCG\\_AudioID\\_t](#)

IDLs for implementing JPEG2000 functionality on the IP Gateway.

Definition at line 31171 of file [DCM.idl](#).

#### 8.73.2.4 typedef sequence<[DCG\\_AudioPairInfo\\_t](#)> [DCM::DeviceControl::DCG\\_AudioPairInfo\\_List\\_t](#)

Definition at line 31201 of file [DCM.idl](#).

#### 8.73.2.5 typedef sequence<[DCG\\_AudioSignalInfo\\_t](#)> [DCM::DeviceControl::DCG\\_AudioSignalInfoList\\_t](#)

Definition at line 31214 of file [DCM.idl](#).

#### 8.73.2.6 typedef sequence<[DCG\\_BackupStream\\_t](#)> [DCM::DeviceControl::DCG\\_BackupStreamList\\_t](#)

Definition at line 31039 of file [DCM.idl](#).

**8.73.2.7** `typedef sequence<DCG_CompressionEnable_t> DCM::DeviceControl::DCG_Compression-EnableList_t`

Definition at line 31252 of file DCM.idl.

**8.73.2.8** `typedef sequence<DCG_GeneratorConfig_t> DCM::DeviceControl::DCG_GeneratorConfig-List_t`

Definition at line 30744 of file DCM.idl.

**8.73.2.9** `typedef sequence<DCG_HitlessSwitchOverEnable_t> DCM::DeviceControl::DCG_Hitless-SwitchOverEnable_List_t`

Definition at line 31509 of file DCM.idl.

**8.73.2.10** `typedef sequence<DCG_InputRTP_Stream_t> DCM::DeviceControl::DCG_InputRTP_-StreamList_t`

Definition at line 30014 of file DCM.idl.

**8.73.2.11** `typedef sequence<DCG_InputRTP_Stream_V2_t> DCM::DeviceControl::DCG_InputRTP_-StreamList_V2_t`

A sequence of [DCG\\_InputTS\\_t](#) entries.

Definition at line 30038 of file DCM.idl.

**8.73.2.12** `typedef sequence<DCG_InputRTP_Stream_V3_t> DCM::DeviceControl::DCG_InputRTP_-StreamList_V3_t`

A sequence of [DCG\\_InputTS\\_t](#) entries.

Definition at line 30055 of file DCM.idl.

**8.73.2.13** `typedef sequence<DCG_InputTS_t> DCM::DeviceControl::DCG_InputTS_List_t`

A sequence of [DCG\\_InputTS\\_t](#) entries.

Definition at line 30000 of file DCM.idl.

**8.73.2.14** `typedef sequence<DCG_JP2K_params_t> DCM::DeviceControl::DCG_JP2K_paramsList_t`

Definition at line 31317 of file DCM.idl.

**8.73.2.15** `typedef sequence<DCG_JP2K_params_V2_t> DCM::DeviceControl::DCG_JP2K_params-List_V2_t`

Definition at line 31338 of file DCM.idl.

**8.73.2.16** `typedef sequence<DCG_JP2K_params_V3_t> DCM::DeviceControl::DCG_JP2K_params-List_V3_t`

Definition at line 31360 of file DCM.idl.

**8.73.2.17** `typedef sequence<DCG_OutputFecGBE_t> DCM::DeviceControl::DCG_OutputFecGBE_-List_t`

A sequence of [DCG\\_OutputFecGBE\\_t](#) entries.

Definition at line 30149 of file DCM.idl.

**8.73.2.18** `typedef sequence<DCG_OutputGBE_t> DCM::DeviceControl::DCG_OutputGBE_List_t`

A sequence of [DCG\\_OutputGBE\\_t](#) entries.

Definition at line 30140 of file DCM.idl.

**8.73.2.19** `typedef sequence<DCG_OutputRTP_Stream_t> DCM::DeviceControl::DCG_OutputRTP-StreamList_t`

A sequence of [DCG\\_OutputTS\\_t](#) entries.

Definition at line 30110 of file DCM.idl.

**8.73.2.20** `typedef sequence<DCG_OutputRTP_V2_Stream_t> DCM::DeviceControl::DCG_OutputRTP-V2_StreamList_t`

A sequence of [DCG\\_OutputRTP\\_V2\\_t](#) entries.

Definition at line 30129 of file DCM.idl.

**8.73.2.21** `typedef sequence<DCG_OutputTS_t> DCM::DeviceControl::DCG_OutputTS_List_t`

A sequence of [DCG\\_OutputTS\\_t](#) entries.

Definition at line 30101 of file DCM.idl.

**8.73.2.22** `typedef sequence<DCG_Possible3GBoardCfg_t> DCM::DeviceControl::DCG_Possible3G-BoardCfgList_t`

Definition at line 31121 of file DCM.idl.

**8.73.2.23** `typedef sequence<DCG_StreamBackupParams_t> DCM::DeviceControl::DCG_Stream-BackupParamsList_t`

Definition at line 30996 of file DCM.idl.

**8.73.2.24** `typedef sequence<unsigned short> DCM::DeviceControl::DCG_VBI_Lines_t`

Definition at line 31290 of file DCM.idl.

**8.73.2.25** `typedef sequence<End2End_Delay_t> DCM::DeviceControl::End2End_DelayList_t`

Definition at line 30219 of file DCM.idl.

**8.73.2.26** `typedef sequence<InTS_AES_Statistic_t> DCM::DeviceControl::InTS_AES_Statistic_List_t`

Definition at line 30941 of file DCM.idl.

**8.73.2.27** `typedef sequence<InTS_Statistic_t> DCM::DeviceControl::InTS_Statistic_List_t`

Definition at line 30899 of file DCM.idl.

**8.73.2.28** `typedef sequence<NegotiatedGbePortSpeed_t> DCM::DeviceControl::NegotiatedGbePort-Speed_List_t`

Definition at line 30865 of file DCM.idl.

**8.73.2.29 typedef sequence<RoutingData\_t> DCM::DeviceControl::RoutingDataList\_t**

A sequence of [IPS\\_OutPID\\_Data\\_t](#).

Definition at line 30158 of file DCM.idl.

**8.73.2.30 typedef sequence<VideoSignalInfo\_t> DCM::DeviceControl::VideoSignalInfoList\_t**

Definition at line 30211 of file DCM.idl.

**8.73.3 Enumeration Type Documentation****8.73.3.1 enum DCM::DeviceControl::eAES\_SampleRate\_t**

Enumerator:

*eAES\_SampleRate\_48kHz*  
*eAES\_SampleRate\_Reserved1* Future use.  
*eAES\_SampleRate\_Reserved2* Future use.  
*eAES\_SampleRate\_Reserved3* Future use.

Definition at line 30777 of file DCM.idl.

**8.73.3.2 enum DCM::DeviceControl::eAES\_WaveMode\_t**

Enumerator:

*eAES\_WaveMode\_PureTone*  
*eAES\_WaveMode\_Reserved1* Future use.  
*eAES\_WaveMode\_Reserved2* Future use.  
*eAES\_WaveMode\_Reserved3* Future use.

Definition at line 30785 of file DCM.idl.

**8.73.3.3 enum DCM::DeviceControl::eAES\_WaveModeDetail\_t**

Enumerator:

*eAES\_PureTone\_Silence*  
*eAES\_PureTone\_100Hz*  
*eAES\_PureTone\_500Hz*  
*eAES\_WaveModeDetail\_Reserved1* Future use.  
*eAES\_WaveModeDetail\_Reserved2* Future use.  
*eAES\_WaveModeDetail\_Reserved3* Future use.

Definition at line 30793 of file DCM.idl.

**8.73.3.4 enum DCM::DeviceControl::eAspectRatio\_t**

Enumerator:

*e4\_3*  
*e16\_9*

*eI4\_9*

*eNot\_Available*

*eAspectRatio\_Reserved2* Future use.

*eAspectRatio\_Reserved3* Future use.

*eAspectRatio\_Reserved4* Future use.

*eAspectRatio\_Reserved5* Future use.

Definition at line 30176 of file DCM.idl.

#### 8.73.3.5 enum DCM::DeviceControl::eDCG\_StreamBackupMode\_t

IDLs for implementing Stream backup on the IP Adapter.

Enumerator:

*eNonRevertive*

*eRevertive*

*eFloating*

*eReserved1*

*eReserved2*

*eReserved3*

*eReserved4*

*eReserved5*

Definition at line 30976 of file DCM.idl.

#### 8.73.3.6 enum DCM::DeviceControl::eDCG\_StreamingState

Describes if the TS is streaming or not.

Enumerator:

*DCG\_Streaming\_Active*

*DCG\_Streaming\_Paused*

*eDCG\_Streaming\_Reserved1* Future use.

*eDCG\_Streaming\_Reserved2* Future use.

*eDCG\_Streaming\_Reserved3* Future use.

Definition at line 30059 of file DCM.idl.

#### 8.73.3.7 enum DCM::DeviceControl::eFrameBuildUp\_t

Enumerator:

*eProgressive*

*eInterlaced*

*eFrameBuildUp\_Reserved1* Future use.

*eFrameBuildUp\_Reserved2* Future use.

*eFrameBuildUp\_Reserved3* Future use.

Definition at line 30188 of file DCM.idl.

**8.73.3.8 enum DCM::DeviceControl::eFrameRate\_t**

Enumerator:

*e24fps*  
*e25fps*  
*e30fps*  
*e50fps*  
*e60fps*  
*e29\_97fps*  
*e59\_94fps*  
*eDCG\_FramerRate\_Reserved1* Future use.  
*eDCG\_FramerRate\_Reserved2* Future use.  
*eDCG\_FramerRate\_Reserved3* Future use.  
*eDCG\_FramerRate\_Reserved4* Future use.  
*eDCG\_FramerRate\_Reserved5* Future use.

Definition at line 30160 of file DCM.idl.

**8.73.3.9 enum DCM::DeviceControl::eGbePortType\_t**

Enumerator:

*eGbePort\_PairType* All configuration values like: TTL, TOS, VLAN, srcAddr (source socket) and destination socket are the same for the two GbE ports. Values configured for GbE0 are also used for GbE1.  
*eGbePort\_IndividualType* All configuration values as mentioned above are individual for for each GbE port.

Definition at line 30113 of file DCM.idl.

**8.73.3.10 enum DCM::DeviceControl::enDCG\_3G\_Topology\_t**

Enumerator:

*eNo3G*  
*eOne3G*  
*eTwo3G*  
*eThree3G*  
*eReserved\_DCG\_3G\_1*  
*eReserved\_DCG\_3G\_2*  
*eReserved\_DCG\_3G\_3*

Definition at line 31105 of file DCM.idl.

**8.73.3.11 enum DCM::DeviceControl::enDCG\_AudioResolution\_t**

Enumerator:

*eDCG\_AudioResolution\_20bit*  
*eDCG\_AudioResolution\_24bit*

*eDCG\_AudioResolution\_Invalid*  
*eReserved\_AudioResolution1*

Definition at line 31181 of file DCM.idl.

#### 8.73.3.12 enum DCM::DeviceControl::enDCG\_AudioStatus\_t

Describes Status of an audio channel (left or right).

Enumerator:

*eAudioSt\_NotPresent*  
*eAudioSt\_Present*  
*eAudioSt\_Error*

Definition at line 31174 of file DCM.idl.

#### 8.73.3.13 enum DCM::DeviceControl::enDCG\_CompressionMode\_t

Enumerator:

*eUncompressed*  
*eEnableJP2K*  
*eCompressionEnable\_Reserved1*  
*eCompressionEnable\_Reserved2*  
*eCompressionEnable\_Reserved3*  
*eCompressionEnable\_Reserved4*

Definition at line 31236 of file DCM.idl.

#### 8.73.3.14 enum DCM::DeviceControl::enDCG\_HitlessSwitchOverMode\_t

Enumerator:

*eDisableHitlessSwitchOver*  
*eEnableHitlessSwitchOver*  
*eHitlessReserved1*  
*eHitlessReserved2*  
*eHitlessReserved3*  
*eHitlessReserved4*

Definition at line 31486 of file DCM.idl.

#### 8.73.3.15 enum DCM::DeviceControl::enDCG\_JP2K\_CompressionMode\_t

Enumerator:

*e9\_7*  
*e5\_3*  
*eJP2K\_CompressionMode\_Reserved*

Definition at line 31283 of file DCM.idl.



**8.73.3.16 enum DCM::DeviceControl::enDCG\_JP2K\_Topology\_t**

Enumerator:

*e3Dec\_3Enc*  
*e3Dec*  
*e3Enc*  
*e6Dec*  
*e6Enc*  
*eTopology\_JP2K\_Reserved1*  
*eTopology\_JP2K\_Reserved2*  
*eTopology\_JP2K\_Reserved3*  
*eTopology\_JP2K\_Reserved4*  
*eTopology\_JP2K\_Reserved5*  
*eTopology\_JP2K\_Reserved6*

Definition at line 31439 of file DCM.idl.

**8.73.3.17 enum DCM::DeviceControl::eNegotiatedGbePortSpeed\_t**

Enumerator:

*ePortSpeed\_NotAvailable*  
*ePortSpeed\_10Mbs*  
*ePortSpeed\_100Mbs*  
*ePortSpeed\_1Gbps*  
*ePortSpeed\_10Gbps*  
*ePortSpeed\_Reserved1*  
*ePortSpeed\_Reserved2*

Definition at line 30848 of file DCM.idl.

**8.73.3.18 enum DCM::DeviceControl::eSDI\_ColorOutputMode\_t**

Enumerator:

*eOM\_Static*  
*eOM\_RGB\_Cycling*  
*eOM\_Reserved1* Future use.  
*eOM\_Reserved2* Future use.  
*eOM\_Reserved3* Future use.

Definition at line 30723 of file DCM.idl.

**8.73.3.19 enum DCM::DeviceControl::eSDI\_GeneratorMode\_t**

Enumerator:

*e3G\_1080P\_60*  
*e3G\_1080P\_59\_94*

*e3G\_1080P\_50*  
*eHD\_1080P\_30*  
*eHD\_1080P\_29\_97*  
*eHD\_1080P\_25*  
*eHD\_720P\_60*  
*eHD\_720P\_59\_94*  
*eHD\_720P\_50*  
*eHD\_1080I\_30*  
*eHD\_1080I\_29\_97*  
*eHD\_1080I\_25*  
*eSD\_525I\_29\_97*  
*eSD\_625I\_25* (default)  
*eSDI\_GeneratorMode\_Reserved1* Future use.  
*eSDI\_GeneratorMode\_Reserved2* Future use.  
*eSDI\_GeneratorMode\_Reserved3* Future use.

Definition at line 30702 of file DCM.idl.

#### 8.73.3.20 enum DCM::DeviceControl::eTxClockingMode\_t

Describes the output clocking mode when RTP is routed to SDI.

Enumerator:

*eFreeRunning*  
*eAdaptiveRecovery*  
*eGenLocked*

Definition at line 30017 of file DCM.idl.

#### 8.73.3.21 enum DCM::DeviceControl::eVideoFormat\_t

Enumerator:

*eSD*  
*eHD*  
*e3G*  
*eAES*  
*eVideoFormat\_Reserved1* Future use.  
*eVideoFormat\_Reserved2* Future use.  
*eVideoFormat\_Reserved3* Future use.

Definition at line 29965 of file DCM.idl.

## 8.73.4 Function Documentation

**8.73.4.1** void DCM::DeviceControl::BoardCfgGet3GTopology ( in unsigned short *SlotNumber*, out enDCG\_3G\_Topology\_t *BoardCfg\_3G* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get IPGW board configuration for 3G streams.

## Parameters

|     |                    |                                                |
|-----|--------------------|------------------------------------------------|
| in  | <i>SlotNumber</i>  | Slot number                                    |
| out | <i>BoardCfg_3G</i> | The allowed number of 3G streams on the board. |

## Exceptions

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
| <i>OpNotSucceeded</i> | In case of                                                                              |

## Version

Release 8.1

**8.73.4.2** void DCM::DeviceControl::BoardCfgGetJP2KTopology ( in unsigned short *SlotNumber*, out enDCG\_JP2K\_Topology\_t *JP2K\_BoardCfg* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get JPEG 2000 board configuration.

## Parameters

|     |                       |                                      |
|-----|-----------------------|--------------------------------------|
| in  | <i>SlotNumber</i>     | Slot number                          |
| out | <i>JP2K_Board-Cfg</i> | The topology of the JPEG 2000 board. |

## Exceptions

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
| <i>OpNotSucceeded</i> | In case of                                                                              |

## Version

Release 8.1

**8.73.4.3** void DCM::DeviceControl::BoardCfgSet3GTopology ( in unsigned short *SlotNumber*, in enDCG\_3G\_Topology\_t *BoardCfg\_3G* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set IPGW board configuration for 3G streams.

**Parameters**

|    |                    |                                                          |
|----|--------------------|----------------------------------------------------------|
| in | <i>SlotNumber</i>  | Slot number                                              |
| in | <i>BoardCfg_3G</i> | Specifies the allowed number of 3G streams on the board. |

**Exceptions**

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
| <i>OpNotSucceeded</i> | In case of                                                                              |

**Note**

- Switching speed mode will cause a firmware reset and thus is service affecting !!

**Version**

Release 8.1

**8.73.4.4** void DCM::DeviceControl::BoardCfgSetJP2KTopology ( in unsigned short *SlotNumber*, in enDCG\_JP2K\_Topology\_t *JP2K\_BoardCfg* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set JPEG 2000 board configuration.

**Parameters**

|    |                       |                                                |
|----|-----------------------|------------------------------------------------|
| in | <i>SlotNumber</i>     | Slot number                                    |
| in | <i>JP2K_Board-Cfg</i> | Specifies the topology of the JPEG 2000 board. |

**Exceptions**

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
| <i>OpNotSucceeded</i> | In case of                                                                              |

**Note**

- Switching speed mode will cause a firmware reset and thus is service affecting !!

**Version**

Release 8.1

**8.73.4.5** void DCM::DeviceControl::DCG\_ApplyRoutings ( in unsigned short *SlotNumber*, in RoutingDataList\_t *RoutingDataList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OutOfRange, OperationFailed)

Add a routing source to a number of output transport streams.

**Parameters**

|    |                         |                                                        |
|----|-------------------------|--------------------------------------------------------|
| in | <i>SlotNumber</i>       | The SlotNumber of which parameters need to be changed. |
| in | <i>RoutingData-List</i> | List of <a href="#">RoutingData_t</a> entries.         |

**Exceptions**

|                       |                                                                                                                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Timeout</i>        | A timeout occurred during IIOP processing                                                                                                                                                  |
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway.                                                                                   |
| <i>OpNotAllowed</i>   | Not logged in                                                                                                                                                                              |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references for output or input references</li> <li>Inconsistency between SlotNumber &amp; RoutingDataList SlotNumber.</li> </ul> |
| <i>LicenseError</i>   | If there are insufficient licenses.                                                                                                                                                        |
| <i>OutOfRange</i>     | Not enough output bandwidth to complete routing.                                                                                                                                           |

**Version**

Release 7.0

**8.73.4.6** `boolean DCM::DeviceControl::DCG_ASIG_Get_3D ( in unsigned short Board )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get whether stream 1 and 2 is 3D paired on an ASI board.

This is a board level configuration

**Parameters**

|    |              |  |
|----|--------------|--|
| in | <i>Board</i> |  |
|----|--------------|--|

**Returns**

boolean

**Exceptions**

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
|-----------------------|-----------------------------------------------------------------------------------------|

**Version**

Release 8.7

**8.73.4.7** `void DCM::DeviceControl::DCG_ASIG_Set_3D ( in unsigned short Board, in boolean enabled )` raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Set stream 1 and 2 to 3D paired on an ASI board.

This is a board level configuration

**Parameters**

|    |                |         |
|----|----------------|---------|
| in | <i>Board</i>   |         |
| in | <i>enabled</i> | boolean |

**Returns****Exceptions**

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
|-----------------------|-----------------------------------------------------------------------------------------|

**Version**

Release 8.7

**8.73.4.8** void DCM::DeviceControl::DCG\_GetActiveInputStream ( in IPS\_RefTS\_t *OutStream*, out IPS\_RefTS\_t *ActiveInStream* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the active stream for the specified output.

**Parameters**

|     |                       |                                                        |
|-----|-----------------------|--------------------------------------------------------|
| in  | <i>OutStream</i>      | Output stream for which to set the active input stream |
| out | <i>ActiveInStream</i> | Active input stream                                    |

**Exceptions**

|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board.                                                                                        |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutStream reference (BoardNr, PortNr, TS)</li> <li>Invalid ActiveInStream reference (BoardNr, PortNr, TS)</li> </ul> |

**Version**

Release 7.5

**8.73.4.9** void DCM::DeviceControl::DCG\_GetAudioSignalInfo ( in unsigned short *BoardNr*, in IPS\_RefTS\_List\_t *RefList*, out DCG\_AudioSignalInfoList\_t *SignalInfoList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets the (audio) signal information from an input AES signal.

**Parameters**

|     |                       |                                                                     |
|-----|-----------------------|---------------------------------------------------------------------|
| in  | <i>BoardNr</i>        | specifies slot number                                               |
| in  | <i>RefList</i>        | when empty, the audio signal info for ALL valid inputs's are given. |
| out | <i>SignalInfoList</i> | the returned audio signal information                               |

**Exceptions**

|                        |                                               |
|------------------------|-----------------------------------------------|
| <i>OpNotSupported</i>  | When BoardNr is not an IP Audio Gateway board |
| <i>OpNotSucceeded</i>  | In case of invalid input references           |
| <i>OperationFailed</i> |                                               |

**Version**

Release 11.10

**8.73.4.10** `DCG_BackupStreamList_t DCM::DeviceControl::DCG_GetBU_Streams ( in IPS_Ref_t RefPhys, in Ref_List_t RefList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the configured main/backup pairs for the requested reference.

**Parameters**

|    |                |                                                                                                                             |
|----|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i> | specifies BoardNr and PortNr <ul style="list-style-type: none"> <li>wildcard for port allowed with empty RefList</li> </ul> |
| in | <i>RefList</i> | List of (output) references for which to get the backup streams                                                             |

**Returns**

DCG\_BackupStreamList\_t, a sequence of [DCG\\_BackupStream\\_t](#) entries holding main/backup pairs as specified in RefList.

**Exceptions**

|                       |                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board.                        |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutStream reference (BoardNr, PortNr, TS)</li> </ul> |

**Version**

Release 7.5

**8.73.4.11** `void DCM::DeviceControl::DCG_GetCompressionMode ( in IPS_Ref_t RefPhys, in Ref_List_t RefList, out DCG_CompressionEnableList_t CompressionEnableList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets the Compression setting for RTP streams.

**Parameters**

|     |                               |                                                                |
|-----|-------------------------------|----------------------------------------------------------------|
| in  | <i>RefPhys</i>                | specifies slot number                                          |
| in  | <i>RefList</i>                | when empty, the compression setting for all streams are given. |
| out | <i>Compression-EnableList</i> | The returned compression setting                               |

**Exceptions**

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
| <i>OpNotSucceeded</i> | In case of invalid references for RTP stream                                            |

**Version**

Release 8.1

**8.73.4.12** void DCM::DeviceControl::DCG\_GetHitlessSwitchOverMode ( in IPS\_Ref\_t *RefPhys*, in Ref\_List\_t *RefList*, out DCG\_HitlessSwitchOverEnable\_List\_t *HitlessSwitchOverEnableList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets the HitlessSwitchOver setting for RTP streams.

**Parameters**

|     |                                     |                                                                      |
|-----|-------------------------------------|----------------------------------------------------------------------|
| in  | <i>RefPhys</i>                      | specifies slot number                                                |
| in  | <i>RefList</i>                      | when empty, the HitlessSwitchOver setting for all streams are given. |
| out | <i>HitlessSwitch-OverEnableList</i> | returns HitlessSwitchOver settings                                   |

**Exceptions**

|                       |                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Adapter or IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case of Invalid references for RTP stream                                                          |

**Version**

Release 8.1

**8.73.4.13** void DCM::DeviceControl::DCG\_GetJP2K\_Params ( in IPS\_Ref\_t *RefPhys*, in Ref\_List\_t *RefList*, out DCG\_JP2K\_paramsList\_t *JP2K\_paramsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets the JPEG2000 settings from an output JP2K stream.

**Parameters**

|     |                         |                                                                          |
|-----|-------------------------|--------------------------------------------------------------------------|
| in  | <i>RefPhys</i>          | specifies slot number                                                    |
| in  | <i>RefList</i>          | when empty, the JPEG2000 settings for ALL JP2K output streams are given. |
| out | <i>JP2K_params-List</i> | The returned JPEG2000 settings                                           |

**Exceptions**

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
| <i>OpNotSucceeded</i> | In case of Invalid references for JP2K stream                                           |



**Version**

Release 8.1

**8.73.4.14** void DCM::DeviceControl::DCG\_GetJP2K\_Params\_V2 ( in IPS\_Ref\_t *RefPhys*, in Ref\_List\_t *RefList*, out DCG\_JP2K\_paramsList\_V2\_t *JP2K\_paramsList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

This function is similar to [DCG\\_GetJP2K\\_Params\(\)](#) above, except for the list of elements returned is not a list of DCG\_JP2K\_paramsList\_t but a list of DCG\_JP2K\_paramsList\_V2\_t which differs in that the latter have an extra tributry, bEnableVPS.

Except for this all other things are equal.

**Version**

Release 8.7

**8.73.4.15** void DCM::DeviceControl::DCG\_GetJP2K\_Params\_V3 ( in IPS\_Ref\_t *RefPhys*, in Ref\_List\_t *RefList*, out DCG\_JP2K\_paramsList\_V3\_t *JP2K\_paramsList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

This function is similar to [DCG\\_GetJP2K\\_Params\\_V2\(\)](#) above, except for the list of elements returned is not a list of DCG\_JP2K\_paramsList\_V2\_t but a list of DCG\_JP2K\_paramsList\_V3\_t which differs in that the latter have an extra element, bSDI20BitAudio.

Except for this all other things are equal.

**Parameters**

|     |                         |                                                                          |
|-----|-------------------------|--------------------------------------------------------------------------|
| in  | <i>RefPhys</i>          | specifies slot number                                                    |
| in  | <i>RefList</i>          | when empty, the JPEG2000 settings for ALL JP2K output streams are given. |
| out | <i>JP2K_params-List</i> | The returned JPEG2000 settings                                           |

**Exceptions**

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
| <i>OpNotSucceeded</i> | In case of Invalid references for JP2K stream                                           |

**Version**

Release 11.10

**8.73.4.16** DCG\_StreamBackupParamsList\_t DCM::DeviceControl::DCG\_GetStreamBU\_Params ( in IPS\_Ref\_t *RefPhys*, in Ref\_List\_t *RefList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get the StreamBackup parameters for an output service.

**Parameters**

|    |                |                                                                                                                             |
|----|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| in | <i>RefPhys</i> | specifies BoardNr and PortNr <ul style="list-style-type: none"> <li>wildcard for port allowed with empty RefList</li> </ul> |
| in | <i>RefList</i> | List of (output) references for which to get the parameters                                                                 |

**Returns**

DCG\_StreamBackupParamsList\_t, a sequence of [DCG\\_StreamBackupParams\\_t](#) entries as specified in RefList.

**Exceptions**

|                       |                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board.                        |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutStream reference (BoardNr, PortNr, TS)</li> </ul> |

**Version**

Release 7.5

**8.73.4.17** void DCM::DeviceControl::DCG\_InTS\_DeleteL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Delete a list of input TSs.

**Parameters**

|    |                |                                                                                      |
|----|----------------|--------------------------------------------------------------------------------------|
| in | <i>RefPhys</i> | BoardNr & PortNr where TSs need to be deleted.                                       |
| in | <i>RefList</i> | list of <a href="#">IPS_RefTS_t</a> , references to the TSs that need to be deleted. |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway.                                                                                                                                                                                                                                         |
| <i>OpNotSucceeded</i> | In case <ul style="list-style-type: none"> <li>Invalid references are used (RefPhys, RefList).</li> <li>Inconsistency between RefPhys.BoardNr &amp; RefList[x].BoardNr.</li> <li>Inconsistency between RefPhys.PortNr &amp; RefList[x].PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>The requested TS has a route to an output TS</li> </ul> |

**Note**

- When called on an SDI board, a new TS is created for the ports where the TS is deleted

**Version**

Release 7.0

**8.73.4.18** void DCM::DeviceControl::DCG\_OutTS\_DeleteL ( in IPS\_Ref\_t *RefPhys*, in IPS\_RefTS\_List\_t *RefList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Delete a list of output TSs.

**Parameters**

|    |                |                                                                                      |
|----|----------------|--------------------------------------------------------------------------------------|
| in | <i>RefPhys</i> | BoardNr & PortNr where TSs need to be deleted.                                       |
| in | <i>RefList</i> | list of <a href="#">IPS_RefTS_t</a> , references to the TSs that need to be deleted. |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway.                                                                                                                                                                                                                                        |
| <i>OpNotSucceeded</i> | In case <ul style="list-style-type: none"> <li>Invalid references are used (RefPhys, RefList).</li> <li>Inconsistency between RefPhys.BoardNr &amp; RefList[x].BoardNr.</li> <li>Inconsistency between RefPhys.PortNr &amp; RefList[x].PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>The requested TS has a route to an input TS</li> </ul> |

**Note**

- When called on an SDI board, a new TS is created for the ports where the TS is deleted

**Version**

Release 7.0

**8.73.4.19** void DCM::DeviceControl::DCG\_SetActiveInputStream ( in IPS\_RefTS\_t *OutStream*, in IPS\_RefTS\_t *ActiveInStream* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Sets the active stream for the specified output.

**Parameters**

|    |                       |                                                        |
|----|-----------------------|--------------------------------------------------------|
| in | <i>OutStream</i>      | Output stream for which to set the active input stream |
| in | <i>ActiveInStream</i> | Input stream to activate                               |

Note: if SwitchToGoodSrcOnly is True then the active input is not switched if the selected input is in error.

**Exceptions**

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
|-----------------------|-----------------------------------------------------------------------------------------|

|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutStream reference (BoardNr, PortNr, TS)</li> <li>Invalid ActiveInStream reference (BoardNr, PortNr, TS)</li> </ul> |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Release 7.5

**8.73.4.20** void DCM::DeviceControl::DCG\_SetBU\_Streams ( in IPS\_Ref\_t *RefPhys*, in DCG\_BackupStreamList\_t *BU\_StreamList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Sets the backup streams for each output stream.

**Parameters**

|    |                      |                                            |
|----|----------------------|--------------------------------------------|
| in | <i>RefPhys</i>       | specifies BoardNr and PortNr               |
| in | <i>BU_StreamList</i> | specifies pairs of Main and Backup streams |

**Exceptions**

|                       |                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board.                        |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutStream reference (BoardNr, PortNr, TS)</li> </ul> |

**Version**

Release 7.5

**8.73.4.21** void DCM::DeviceControl::DCG\_SetCompressionMode ( in IPS\_Ref\_t *RefPhys*, in DCG\_CompressionEnableList\_t *CompressionEnableList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Sets the compression setting for RTP streams This function can be used for input as well as output streams.

For input streams, when enabling compression, if the dejitter buffer was set to less than 7. it will be changed to 7.

**Parameters**

|     |                               |                                     |
|-----|-------------------------------|-------------------------------------|
| in  | <i>RefPhys</i>                | Specifies slot number               |
| out | <i>Compression-EnableList</i> | List of compression settings to set |

**Exceptions**

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
| <i>OpNotSucceeded</i> | In case of invalid references for RTP streams                                           |

**Version**

Release 8.1

**8.73.4.22** void DCM::DeviceControl::DCG\_SetHitlessSwitchOverMode ( in IPS\_Ref\_t *RefPhys*, in DCG\_HitlessSwitchOverEnable\_List\_t *HitlessSwitchOverEnableList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed, LicenseError)

Sets the HitlessSwitchOver setting for RTP streams.

**Parameters**

|     |                                    |                                           |
|-----|------------------------------------|-------------------------------------------|
| in  | <i>RefPhys</i>                     | Specifies slot number                     |
| out | <i>HitlessSwitchOverEnableList</i> | List of HitlessSwitchOver settings to set |

**Exceptions**

|                       |                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Adapter or IP Audio Gateway.                                          |
| <i>OpNotSucceeded</i> | In case of Invalid references for RTP streams                                                                                                  |
| <i>LicenseError</i>   | - When the appropriate license is not installed <ul style="list-style-type: none"> <li>• Not enough licenses of this type available</li> </ul> |

**Version**

Release 8.1

**8.73.4.23** void DCM::DeviceControl::DCG\_SetJP2K\_Params ( in IPS\_Ref\_t *RefPhys*, in DCG\_JP2K\_paramsList\_t *JP2K\_paramsList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Sets the JPEG200 parameters for an output JP2K stream.

**Parameters**

|     |                        |                                  |
|-----|------------------------|----------------------------------|
| in  | <i>RefPhys</i>         | Specifies slot number            |
| out | <i>JP2K_paramsList</i> | List of JPEG2000 settings to set |

**Exceptions**

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
| <i>OpNotSucceeded</i> | In case of Invalid references for JP2K streams                                          |

**Version**

Release 8.1

**8.73.4.24** void DCM::DeviceControl::DCG\_SetJP2K\_Params\_V2 ( in IPS\_Ref\_t *RefPhys*, in DCG\_JP2K\_paramsList\_V2\_t *JP2K\_paramsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

This function is similar to [DCG\\_SetJP2K\\_Params\(\)](#) above, except for the list of elements returned is not a list of DCG\_JP2K\_paramsList\_t but a list of DCG\_JP2K\_paramsList\_V2\_t which differs in that the latter have an extra tributary, bEnableVPS.

Except for this all other things are equal.

**Version**

Release 8.7

**8.73.4.25** void DCM::DeviceControl::DCG\_SetJP2K\_Params\_V3 ( in IPS\_Ref\_t *RefPhys*, in DCG\_JP2K\_paramsList\_V3\_t *JP2K\_paramsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

This function is similar to [DCG\\_SetJP2K\\_Params\\_V2\(\)](#) above, except for the list of elements input is not a list of DCG\_JP2K\_paramsList\_V2\_t but a list of DCG\_JP2K\_paramsList\_V3\_t which differs in that the latter have an extra element, bSDI20BitAudio.

Except for this all other things are equal.

**Version**

Release 11.10

**8.73.4.26** void DCM::DeviceControl::DCG\_SetStreamBU\_Params ( in IPS\_Ref\_t *RefPhys*, in DCG\_StreamBackupParamsList\_t *StreamBackupParamsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Sets the StreamBackup parameters for an output service.

**Parameters**

|    |                                |                                                                |
|----|--------------------------------|----------------------------------------------------------------|
| in | <i>RefPhys</i>                 | specifies BoardNr and PortNr                                   |
| in | <i>StreamBackup-ParamsList</i> | specifies BU-parameters for the referenced output stream (Ref) |

**Exceptions**

|                       |                                                                                                                                                                          |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board.                                                                                  |
| <i>OpNotSucceeded</i> | in case of <ul style="list-style-type: none"> <li>Invalid OutStream reference (BoardNr, PortNr, TS)</li> <li>Invalid mode specified in the StreamBackupParams</li> </ul> |

**Version**

Release 8.0

**8.73.4.27** void DCM::DeviceControl::GetAES\_GeneratorConfigs ( in unsigned short *BoardNbr*, in IPS\_RefTS\_List\_t *RefList*, out DCG\_AES\_GeneratorConfigList\_t *ConfigList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets the list of available AES test signal generators and their configuration Also returns the references for the AES generators.

These should be used to configure and route them later !! To route a generator signal, the DCG\_Apply-Routings call should be used just as for any other routing.

**Parameters**

|     |                   |                                                                                                                  |
|-----|-------------------|------------------------------------------------------------------------------------------------------------------|
| in  | <i>BoardNbr</i>   | specifies slot number                                                                                            |
| in  | <i>RefList</i>    | when empty, configuration info for ALL generators are given. (first call when you don't know the references yet. |
| out | <i>ConfigList</i> | The returned list of the AES test sigal generators and their configurations.                                     |

**Exceptions**

|                       |                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Audio Gateway board.          |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references for generators</li> </ul> |

**Version**

Release 11.10

**8.73.4.28** void DCM::DeviceControl::GetEndToEndDelaysL ( in unsigned short *SlotNumber*, in IPS\_RefTS\_List\_t *RefList*, out End2End\_DelayList\_t *DelayList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets the end to end delay that was introduced for an output transport stream.

**Parameters**

|     |                   |                                                        |
|-----|-------------------|--------------------------------------------------------|
| in  | <i>SlotNumber</i> | specifies slot number                                  |
| in  | <i>RefList</i>    | when empty, the end2end delays for ALL TS's are given. |
| out | <i>DelayList</i>  | The returned end to end delays                         |

**Exceptions**

|                       |                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway.     |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references for output transport streams</li> </ul> |

## Version

Release 7.0

**8.73.4.29** void DCM::DeviceControl::GetPossible3GTopology ( in unsigned short *SlotNumber*, out DCG\_Possible3GBoardCfgList\_t *BoardCfgList\_3G* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a list of all board configurations and whether they can be applied or not.

## Parameters

|     |                        |                                               |
|-----|------------------------|-----------------------------------------------|
| in  | <i>SlotNumber</i>      | The IPGW board to retrieve the settings from. |
| out | <i>BoardCfgList_3G</i> | A list of all board configurations.           |

## Exceptions

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
|-----------------------|-----------------------------------------------------------------------------------------|

## Version

Release 8.1

**8.73.4.30** void DCM::DeviceControl::GetSDI\_GeneratorConfigs ( in unsigned short *BoardNbr*, in IPS\_RefTS\_List\_t *RefList*, out DCG\_GeneratorConfigList\_t *ConfigList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets the list of available SDI test signal generators and their configuration Also returns the references for the SDI generators.

These should be used to configure and route them later !! To route a generator signal, the DCG\_Apply-Routings call should be used just as for any other routing.

## Parameters

|     |                   |                                                                                                                  |
|-----|-------------------|------------------------------------------------------------------------------------------------------------------|
| in  | <i>BoardNbr</i>   | specifies slot number                                                                                            |
| in  | <i>RefList</i>    | when empty, configuration info for ALL generators are given. (first call when you don't know the references yet. |
| out | <i>ConfigList</i> | The returned list of the SDI test sigal generators and their configurations.                                     |

## Exceptions

|                       |                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board.        |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references for generators</li> </ul> |



## Version

Release 7.0

**8.73.4.31** void DCM::DeviceControl::GetVideoSignalInfos ( in unsigned short *SlotNumber*, in IPS\_RefTS\_List\_t *RefList*, out VideoSignalInfoList\_t *SignalInfoList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Gets the (video) signal information from an input SDI signal or from an input RTP transport stream.

## Parameters

|     |                       |                                                                         |
|-----|-----------------------|-------------------------------------------------------------------------|
| in  | <i>SlotNumber</i>     | specifies slot number                                                   |
| in  | <i>RefList</i>        | when empty, the video signal info for ALL valid SDI inputs's are given. |
| out | <i>SignalInfoList</i> | The returned video signal information                                   |

## Exceptions

|                       |                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board.                                                                                 |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references for input references</li> <li>The RefList is specifying an SDI stream that is not valid</li> </ul> |

## Version

Release 7.0

**8.73.4.32** void DCM::DeviceControl::In\_Pair3D\_AddL ( in unsigned short *Board*, in DCG\_3D\_pair\_List\_t *l* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

**8.73.4.33** void DCM::DeviceControl::In\_Pair3D\_DeleteL ( in unsigned short *Board*, in DCG\_3D\_pair\_List\_t *l* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OperationFailed)

**8.73.4.34** DCG\_3D\_pair\_List\_t DCM::DeviceControl::In\_Pair3D\_GetL ( in unsigned short *Board* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

**8.73.4.35** void DCM::DeviceControl::InputRTP\_StreamChangeL ( in IPS\_Ref\_t *RefPhys*, in DCG\_InputRTP\_StreamList\_t *InputStreamList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

Change the parameters of one or more existing input RTP streams.

Note that an input RTP stream co-exists with an input TS. Only when an input TS is created, an input stream is available.

## Parameters

|    |                        |                                                                   |
|----|------------------------|-------------------------------------------------------------------|
| in | <i>RefPhys</i>         | The SlotNumber and PortNr of which parameters need to be changed. |
| in | <i>InputStreamList</i> | List of <a href="#">DCG_InputRTP_Stream_V2_t</a> entries.         |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway.                                                                                                                                                                                          |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• Invalid references (RefPhys).</li> <li>• Inconsistency between RefPhys.BoardNr &amp; InputTSList[x].Ref.BoardNr.</li> <li>• Inconsistency between RefPhys.PortNr &amp; InputTSList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF.</li> </ul> |

**Version**

Release 7.0

**8.73.4.36** void DCM::DeviceControl::InputRTP\_StreamChangeL\_V2 ( in IPS\_Ref\_t *RefPhys*, in DCG\_InputRTP\_StreamList\_V2\_t *InputStreamList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

**8.73.4.37** void DCM::DeviceControl::InputRTP\_StreamChangeL\_V3 ( in IPS\_Ref\_t *RefPhys*, in DCG\_InputRTP\_StreamList\_V3\_t *InputStreamList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

Similar to the above, except the genlock value is specified in units of time.

**Version**

Release 8.7

**8.73.4.38** DCG\_InputRTP\_StreamList\_t DCM::DeviceControl::InputRTP\_StreamGetL ( in IPS\_Ref\_t *RefPhys*, in Ref\_List\_t *RefList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a list of input RTP streams and their parameters.

**Parameters**

|    |                |                                                    |
|----|----------------|----------------------------------------------------|
| in | <i>RefPhys</i> | The BoardNr and PortNr you want information about. |
| in | <i>RefList</i> | A sequence of Ref's you want info about.           |

**Returns**

DCG\_InputRTP\_StreamList\_V2\_t, a sequence of [DCG\\_InputRTP\\_Stream\\_V2\\_t](#) entries.

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case invalid references (RefPhys, RefList) are used.                                                  |

**Note**

- A value of 0xFFFF for port means all ports.
- An empty list means all refs.

**Version**

Release 7.0

**8.73.4.39** DCG\_InputRTP\_StreamList\_V2\_t DCM::DeviceControl::InputRTP\_StreamGetL\_V2 ( in IPS\_Ref\_t *RefPhys*, in Ref\_List\_t *RefList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

**8.73.4.40** DCG\_InputRTP\_StreamList\_V3\_t DCM::DeviceControl::InputRTP\_StreamGetL\_V3 ( in IPS\_Ref\_t *RefPhys*, in Ref\_List\_t *RefList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Similar to the above, except the genlock value is specified in units of time.

**Version**

Release 8.7

**8.73.4.41** void DCM::DeviceControl::InTS\_AES\_Statistic\_GetL ( in unsigned short *SlotNumber*, in IPS\_RefTS\_List\_t *RefList*, out InTS\_AES\_Statistic\_List\_t *StatisticList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Applicable for release 11.10.

Get the parity and CRC error statistics for the RefTS given in RefList.

**Parameters**

|     |                      |                                                                       |
|-----|----------------------|-----------------------------------------------------------------------|
| in  | <i>SlotNumber</i>    | which specifies the board to access                                   |
| in  | <i>RefList</i>       | : The list for which to get statistics for - or ALL if empty.         |
| out | <i>StatisticList</i> | : The list of statistic structures for the TS's specified in RefList. |

**Exceptions**

|                       |                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Audio Gateway board. |
|-----------------------|---------------------------------------------------------------------------------------|

**8.73.4.42** void DCM::DeviceControl::InTS\_AES\_Statistic\_Reset ( in unsigned short *SlotNumber* ) raises (Timeout, OpNotAllowed, OpNotSupported, OperationFailed)

Applicable for release 11.10.

Reset statistics which can be retrieved by [InTS\\_AES\\_Statistic\\_GetL\(\)](#).

**Parameters**

|    |                   |                                     |
|----|-------------------|-------------------------------------|
| in | <i>SlotNumber</i> | which specifies the board to access |
|----|-------------------|-------------------------------------|

**Exceptions**

|                       |                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Audio Gateway board. |
|-----------------------|---------------------------------------------------------------------------------------|

**8.73.4.43** void DCM::DeviceControl::InTS\_Statistic\_GetL ( in unsigned short *SlotNumber*, in IPS\_RefTS\_List\_t *RefList*, out InTS\_Statistic\_List\_t *StatisticList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Applicable for release 7.5.

Get the statistics for the RefTS given in RefList.

**Parameters**

|     |                      |                                                                       |
|-----|----------------------|-----------------------------------------------------------------------|
| in  | <i>SlotNumber</i>    | which specifies the board to access                                   |
| in  | <i>RefList</i>       | : The list for which to get statistics for - or ALL if empty.         |
| out | <i>StatisticList</i> | : The list of statistic structures for the TS's specified in RefList. |

**Exceptions**

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway. |
|-----------------------|-----------------------------------------------------------------------------------|

**8.73.4.44** void DCM::DeviceControl::InTS\_Statistic\_Reset ( in unsigned short *SlotNumber* ) raises (Timeout, OpNotAllowed, OpNotSupported, OperationFailed)

Applicable for release 7.5.

Reset statistics which can be retrieved by [InTS\\_Statistic\\_GetL\(\)](#).

**Parameters**

|    |                   |                                     |
|----|-------------------|-------------------------------------|
| in | <i>SlotNumber</i> | which specifies the board to access |
|----|-------------------|-------------------------------------|

**Exceptions**

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway. |
|-----------------------|-----------------------------------------------------------------------------------|

**8.73.4.45** void DCM::DeviceControl::NegotiatedGbePortSpeed\_GetL ( in unsigned short *BoardNumber*, out NegotiatedGbePortSpeed\_List\_t *NegotiatedGbePortSpeedList* ) raises (Timeout, OpNotAllowed, OpNotSupported, OperationFailed)

Retrieves the negotiated GbE port speeds for each GbE port.

This method should be called whenever the 'Link Status' of a GbE port has changed, because that is the only occasion when the negotiated speed can change. The speed is 'ePortSpeed\_NotAvailable' when autonegotiation is set to DISABLED.

**Parameters**

|     |                                   |                                                                                                   |
|-----|-----------------------------------|---------------------------------------------------------------------------------------------------|
| in  | <i>BoardNumber</i>                |                                                                                                   |
| out | <i>NegotiatedGbePortSpeedList</i> | The negotiated speed for each GbE port. The first item in the list applies to the first GbE port. |

## Exceptions

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <i>OpNotSupported</i>  | When the specified board is not an IP Audio Gateway board. |
| <i>OperationFailed</i> |                                                            |

## Version

Release 11.10

- 8.73.4.46** void DCM::DeviceControl::Out\_Pair3D\_AddL ( in unsigned short *Board*, in DCG\_3D\_pair\_List\_t *l* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
- 8.73.4.47** void DCM::DeviceControl::Out\_Pair3D\_DeleteL ( in unsigned short *Board*, in DCG\_3D\_pair\_List\_t *l* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OperationFailed)
- 8.73.4.48** DCG\_3D\_pair\_List\_t DCM::DeviceControl::Out\_Pair3D\_GetL ( in unsigned short *Board* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
- 8.73.4.49** void DCM::DeviceControl::OutputFecGBE\_ChangeL ( in unsigned short *Board*, in DCG\_OutputFecGBE\_List\_t *OutputFecGBE\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

Change the parameters of one or more existing outgoing FEC GBE streams.

## Parameters

|    |                          |                                                                                                                                                                                                                                                                                             |
|----|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>Board</i>             | The BoardNr for which parameters need to be changed.                                                                                                                                                                                                                                        |
| in | <i>OutputFecGBE_List</i> | List of <a href="#">DCG_OutputFecGBE_t</a> entries. Each entry configure the destination UDP socket on a (stream,GbE port) basis. Note: The destination UDP socket value set by this function for GbE0, i.e. port=0 and in - OutputFEC_StreamChangeL() is two ways of doing the same thing. |

## Exceptions

|                       |                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main board or when board is not an IP Video Gateway board.                             |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references OutputFecGBE_List[].RefTS</li> </ul> |

## Version

Release 8.9

- 8.73.4.50** DCG\_OutputFecGBE\_List\_t DCM::DeviceControl::OutputFecGBE\_GetL ( in unsigned short *Board*, in IPS\_RefTS\_List\_t *RefTsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a list of outgoing GBE streams and their parameters.

## Parameters

|    |                  |                                            |
|----|------------------|--------------------------------------------|
| in | <i>Board</i>     |                                            |
| in | <i>RefTsList</i> | A sequence of RefTS's you want info about. |

**Returns**

DCG\_OutputFecGBE\_List\_t, a sequence of [DCG\\_OutputFecGBE\\_t](#) entries.

Note: For each element in 'RefList' there will be two values in the returned list, one for each GbE port.

**Exceptions**

|                       |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main board or when board is not an IP Video Gateway board. |
| <i>OpNotSucceeded</i> | In case invalid references RefList are used.                                  |

**Note**

- An empty list means all refs.

**Version**

Release 8.9

**8.73.4.51** void DCM::DeviceControl::OutputGBE\_ChangeL ( in unsigned short *Board*, in DCG\_OutputGBE\_List\_t *OutputGBE\_List* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

Change the parameters of one or more existing outgoing GBE streams.

**Parameters**

|    |                       |                                                                                                                                                                                                                                                                                                                                       |
|----|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>Board</i>          | The BoardNr for which parameters need to be changed.                                                                                                                                                                                                                                                                                  |
| in | <i>OutputGBE_List</i> | List of <a href="#">DCG_OutputGBE_t</a> entries. Each entry configure the destination UDP socket on a (stream,GbE port) basis. This is for hitless unicast. - Note: The destination UDP socket value set by this function for GbE0, i.e. port=0 and in <a href="#">OutputRTP_StreamChangeL()</a> is two ways of doing the same thing. |

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• Invalid references OutputGBE_List[].RefTS</li> </ul> |

**Version**

Release 8.7

**8.73.4.52** DCG\_OutputGBE\_List\_t DCM::DeviceControl::OutputGBE\_GetL ( in unsigned short *Board*, in IPS\_RefTS\_List\_t *RefTsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a list of outgoing GBE streams and their parameters.

**Parameters**

|    |                  |                                            |
|----|------------------|--------------------------------------------|
| in | <i>Board</i>     |                                            |
| in | <i>RefTsList</i> | A sequence of RefTS's you want info about. |

**Returns**

DCG\_OutputGBE\_List\_t, a sequence of [DCG\\_OutputGBE\\_t](#) entries.

Note: For each element in 'RefList' there will be two values in the returned list, one for each GbE port.

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case invalid references RefList are used.                                                             |

**Note**

- An empty list means all refs.

**Version**

Release 8.7

**8.73.4.53** void DCM::DeviceControl::OutputRTP\_StreamAddL ( in IPS\_Ref\_t *RefPhys*, in unsigned long *NbrOutTS*, out DCG\_OutputRTP\_StreamList\_t *OutputStreamList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Create a number of output RTP streams on given Slot and Port based on the defined defaults (DCG\_OutDefaultsSet(), DCG\_OutDefaultsGet()).

Only meant to be used on an output Gbe port.

**Parameters**

|     |                         |                                                                         |
|-----|-------------------------|-------------------------------------------------------------------------|
| in  | <i>RefPhys</i>          | The SlotNumber and PortNr on which Streams need to be added.            |
| in  | <i>NbrOutTS</i>         | The number of streams to create.                                        |
| out | <i>OutputStreamList</i> | A list tih NbrOutTS elements that contains info on the created streams. |

**Exceptions**

|                       |                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway.                                                |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• Invalid references (RefPhys).</li> <li>• Maximum number of supported streams is reached.</li> </ul> |

**Version**

Release 7.0

**8.73.4.54** void DCM::DeviceControl::OutputRTP\_StreamChangeL ( in IPS\_Ref\_t *RefPhys*, in DCG\_OutputRTP\_StreamList\_t *OutputStreamList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

Change the parameters of one or more existing outgoing RTP streams.

Note that an outgoing RTP stream co-exists with an output TS. Only when an output TS is created, an output stream is available.

**Parameters**

|    |                         |                                                                   |
|----|-------------------------|-------------------------------------------------------------------|
| in | <i>RefPhys</i>          | The SlotNumber and PortNr of which parameters need to be changed. |
| in | <i>OutputStreamList</i> | List of <a href="#">DCG_OutputRTP_Stream_t</a> entries.           |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway.                                                                                                                                                                                      |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (RefPhys).</li> <li>Inconsistency between RefPhys.BoardNr &amp; OutputTSList[x].Ref.BoardNr.</li> <li>Inconsistency between RefPhys.PortNr &amp; OutputTSList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF.</li> </ul> |

**Version**

Release 7.0

**8.73.4.55** DCG\_OutputRTP\_StreamList\_t DCM::DeviceControl::OutputRTP\_StreamGetL ( in IPS\_Ref\_t *RefPhys*, in Ref\_List\_t *RefList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a list of outgoing RTP streams and their parameters.

**Parameters**

|    |                |                                                    |
|----|----------------|----------------------------------------------------|
| in | <i>RefPhys</i> | The BoardNr and PortNr you want information about. |
| in | <i>RefList</i> | A sequence of Ref's you want info about.           |

**Returns**

DCG\_OutputRTP\_StreamList\_t, a sequence of [DCG\\_OutputRTP\\_Stream\\_t](#) entries.

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case invalid references (RefPhys, RefList) are used.                                                  |



**Note**

- A value of 0xFFFF for port means all ports.
- An empty list means all refs.

**Version**

Release 7.0

**8.73.4.56** void DCM::DeviceControl::OutputRTP\_V2\_StreamChangeL ( in IPS\_Ref\_t *RefPhys*, in DCG\_OutputRTP\_V2\_StreamList\_t *OutputStreamList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

This function is similar to [OutputRTP\\_StreamChangeL\(\)](#) above, except for the list of elements returned is not a list of [DCG\\_OutputRTP\\_Stream\\_t](#) but a list of [DCG\\_OutputRTP\\_V2\\_Stream\\_t](#) which differs in that the latter does not contain the destination UDP socket, but a contain an enum saying whether the associated GbE ports with this OutRTP is a pair or individual port.

Except for this all other things are equal.

**Version**

Release 8.7

**8.73.4.57** DCG\_OutputRTP\_V2\_StreamList\_t DCM::DeviceControl::OutputRTP\_V2\_StreamGetL ( in IPS\_Ref\_t *RefPhys*, in Ref\_List\_t *RefList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a list of outgoing RTP streams and their parameters.

**Parameters**

|    |                |                                                    |
|----|----------------|----------------------------------------------------|
| in | <i>RefPhys</i> | The BoardNr and PortNr you want information about. |
| in | <i>RefList</i> | A sequence of Ref's you want info about.           |

**Returns**

DCG\_OutputRTP\_V2\_StreamList\_t, a sequence of [DCG\\_OutputRTP\\_V2\\_Stream\\_t](#) entries.

**Exceptions**

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case invalid references (RefPhys, RefList) are used.                                                  |

**Note**

- A value of 0xFFFF for port means all ports.
- An empty list means all refs.

**Version**

Release 8.7

**8.73.4.58** void DCM::DeviceControl::Pair3D\_AddL ( in unsigned short *Board*, in DCG\_3D\_pair\_List\_t *l* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Add 3D pairs, given in a list.

**Parameters**

|    |              |                                                      |
|----|--------------|------------------------------------------------------|
| in | <i>Board</i> |                                                      |
| in | <i>l</i>     | a sequence of <a href="#">DCG_3D_pair_t</a> entries. |

**Exceptions**

|                       |                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board.                                             |
| <i>OpNotAllowed</i>   | When stream that can not be paired is tried to. Only InSDI streams can be paired to each other, and similar to OutSDI.              |
| <i>OpNotAllowed</i>   | When some streams become member of more than one pair.                                                                              |
| <i>OpNotSucceeded</i> | When some in streams does not have there expected video type set to HD.                                                             |
| <i>OpNotSucceeded</i> | When some out streams that is ready route, is routen from a source streams which does not have there expected video type set to HD. |

**Version**

Release 8.7

**8.73.4.59** void DCM::DeviceControl::Pair3D\_DeleteL ( in unsigned short *Board*, in DCG\_3D\_pair\_List\_t *l* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OperationFailed)

Delete 3D pairs, given in a list.

**Parameters**

|    |              |                                                      |
|----|--------------|------------------------------------------------------|
| in | <i>Board</i> |                                                      |
| in | <i>l</i>     | a sequence of <a href="#">DCG_3D_pair_t</a> entries. |

**Exceptions**

|                       |                                                |
|-----------------------|------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main board.                 |
| <i>OpNotAllowed</i>   | When trying to delere pairs that do not exist. |

**Version**

Release 8.7

**8.73.4.60** DCG\_3D\_pair\_List\_t DCM::DeviceControl::Pair3D\_GetL ( in unsigned short *Board* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a list of 3d paired SDI streams input or output.

**Parameters**

|           |              |  |
|-----------|--------------|--|
| <i>in</i> | <i>Board</i> |  |
|-----------|--------------|--|

**Returns**

DCG\_3D\_pair\_List\_t, a sequence of [DCG\\_3D\\_pair\\_t](#) entries.

**Exceptions**

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board. |
|-----------------------|-----------------------------------------------------------------------------------------|

**Version**

Release 8.7

**8.73.4.61** void DCM::DeviceControl::SDI\_InTS\_ChangeL ( in IPS\_Ref\_t *RefPhys*, in DCG\_InputTS\_List\_t *InputTSList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Change the parameters of one or more existing input SDI streams.

**Parameters**

|           |                    |                                                                |
|-----------|--------------------|----------------------------------------------------------------|
| <i>in</i> | <i>RefPhys</i>     | The BoardNr and PortNr of which parameters need to be changed. |
| <i>in</i> | <i>InputTSList</i> | List of <a href="#">DCG_InputTS_t</a> entries.                 |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main board or when board is not an IP Video Gateway or IP Audio Gateway board.                                                                                                                                                                                                                                              |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references (RefPhys).</li> <li>Inconsistency between RefPhys.BoardNr &amp; InputTSList[x].Ref.BoardNr.</li> <li>Inconsistency between RefPhys.PortNr &amp; InputTSList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>Out of range values (DejitterBufferSize).</li> </ul> |

**Version**

Release 7.0

**8.73.4.62** DCG\_InputTS\_List\_t DCM::DeviceControl::SDI\_InTS\_GetL ( in IPS\_Ref\_t *PhysRef* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a list of incoming SDI streams.

**Parameters**

|    |                |                                                           |
|----|----------------|-----------------------------------------------------------|
| in | <i>PhysRef</i> | The BoardNr and PortNr of which you want the information. |
|----|----------------|-----------------------------------------------------------|

**Returns**

DCG\_InputTS\_List\_t A sequence of [DCG\\_InputTS\\_t](#) entries.

**Exceptions**

|                       |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main board or when board is not an IP Video Gateway or IP Audio Gateway board. |
| <i>OpNotSucceeded</i> | In case invalid references( PhysRef, RefList) are used.                                           |

**Note**

- A value of 0xFFFF for port means all ports.
- An empty RefList means all refs.

**Version**

Release 7.0

**8.73.4.63** void DCM::DeviceControl::SDI\_OutTS\_ChangeL ( in IPS\_Ref\_t *RefPhys*, in DCG\_OutputTS\_List\_t *OutputTSList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

Change the parameters of one or more existing outgoing SDI or AES streams.

**Parameters**

|    |                     |                                                                   |
|----|---------------------|-------------------------------------------------------------------|
| in | <i>RefPhys</i>      | The SlotNumber and PortNr of which parameters need to be changed. |
| in | <i>OutputTSList</i> | List of <a href="#">DCG_OutputTS_t</a> entries.                   |

**Exceptions**

|                       |                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway.                                                                                                                                                                                                                                                                                      |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• Invalid references (RefPhys).</li> <li>• Inconsistency between RefPhys.BoardNr &amp; OutputTSList[x].Ref.BoardNr.</li> <li>• Inconsistency between RefPhys.PortNr &amp; OutputTSList[x].Ref.PortNr in case RefPhys.PortNr != 0xFFFF.</li> <li>• Out of range values (Bitrate, UDPPort).</li> <li>• Invalid enum value (State).</li> </ul> |

**Version**

Release 7.0

**8.73.4.64** DCG\_OutputTS\_List\_t DCM::DeviceControl::SDI\_OutTS\_GetL ( in IPS\_Ref\_t *RefPhys* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Get a list of outgoing SDI or AES streams and their parameters.

#### Parameters

|    |                |                                                    |
|----|----------------|----------------------------------------------------|
| in | <i>RefPhys</i> | The BoardNr and PortNr you want information about. |
|----|----------------|----------------------------------------------------|

#### Returns

DCG\_OutputTS\_List\_t, a sequence of [DCG\\_OutputTS\\_t](#) entries.

#### Exceptions

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway or an IP Audio Gateway. |
| <i>OpNotSucceeded</i> | In case invalid references (RefPhys) are used.                                                           |

#### Note

- A value of 0xFFFF for port means all SDI output ports.

#### Version

Release 7.0

**8.73.4.65** void DCM::DeviceControl::SetAES\_GeneratorConfigs ( in unsigned short *BoardNbr*, in DCG\_AES\_GeneratorConfigList\_t *ConfigList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Configure a number of AES test signal generators.

#### Parameters

|    |                   |                                                                                         |
|----|-------------------|-----------------------------------------------------------------------------------------|
| in | <i>BoardNbr</i>   | specifies slot number                                                                   |
| in | <i>ConfigList</i> | The list of the AES test sigal generators and their configurations that need to be set. |

#### Exceptions

|                       |                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Audio Gateway board.                                           |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>• Invalid references for generators</li> <li>• invalid enum values</li> </ul> |

#### Version

Release 11.10

**8.73.4.66** void DCM::DeviceControl::SetSDI\_GeneratorConfigs ( in unsigned short *BoardNbr*, in DCG\_GeneratorConfigList\_t *ConfigList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

Configure a number of SDI test signal generators.

#### Parameters

|    |                   |                                                                                         |
|----|-------------------|-----------------------------------------------------------------------------------------|
| in | <i>BoardNbr</i>   | specifies slot number                                                                   |
| in | <i>ConfigList</i> | The list of the SDI test sigal generators and their configurations that need to be set. |

#### Exceptions

|                       |                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNumber = 0 = Main board or when the board is not an IP Video - Gateway board.                                     |
| <i>OpNotSucceeded</i> | In case of <ul style="list-style-type: none"> <li>Invalid references for generators</li> <li>invalid enum values</li> </ul> |

#### Version

Release 7.0

### 8.73.5 Variable Documentation

**8.73.5.1** const unsigned long DCM::DeviceControl::DCG\_BITMAP\_OUTPUT\_TS\_FEC\_COL\_P-RESENT = 0x200

Will be set when FEC column stream is enabled.

Definition at line 30072 of file DCM.idl.

**8.73.5.2** const unsigned long DCM::DeviceControl::DCG\_BITMAP\_OUTPUT\_TS\_FEC\_ROW\_P-RESENT = 0x400

Will be set when FEC row stream is enabled.

Definition at line 30073 of file DCM.idl.

**8.73.5.3** const unsigned long DCM::DeviceControl::DCG\_BITMAP\_OUTPUT\_TS\_RTP\_ON = 0x8

Definition at line 30069 of file DCM.idl.

**8.73.5.4** const unsigned long DCM::DeviceControl::DCG\_BITMAP\_OUTPUT\_TS\_VBR\_ON = 0x20

Definition at line 30071 of file DCM.idl.

**8.73.5.5** const unsigned long DCM::DeviceControl::DCG\_BITMAP\_OUTPUT\_TS\_VLAN\_ON = 0x10

Definition at line 30070 of file DCM.idl.

## 8.74 General Purpose interface

This contains types, enums and methods to get/set GPI settings.

Collaboration diagram for General Purpose interface:



### Classes

- struct [DCM::DeviceControl::GPI\\_Settings\\_t](#)
- struct [DCM::DeviceControl::GPI\\_StatusControl\\_t](#)

### Typedefs

- typedef sequence< GPI\_Settings\_t > [DCM::DeviceControl::GPI\\_SettingsList\\_t](#)
- typedef sequence < GPI\_StatusControl\_t > [DCM::DeviceControl::GPI\\_StatusControlList\\_t](#)

### Enumerations

- enum [DCM::DeviceControl::eGPI\\_IO\\_t](#) { [DCM::DeviceControl::eInput](#), [DCM::DeviceControl::eOutput](#) }
- enum [DCM::DeviceControl::eGPI\\_Assert\\_t](#) { [DCM::DeviceControl::eLow](#), [DCM::DeviceControl::eHigh](#) }

### Functions

- GPI\_SettingsList\_t [DCM::DeviceControl::GetGpiSettings](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the settings for the 5 contacts.*
- void [DCM::DeviceControl::SetGpiSettings](#) (in GPI\_SettingsList\_t GpiSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OutOfRange)  
*Sets the settings for the 5 contacts.*
- unsigned short [DCM::DeviceControl::GetGpiRebootContact](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the number of the contact used for rebooting the device.*
- void [DCM::DeviceControl::SetGpiRebootContact](#) (in unsigned short ContactNumber) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Sets the number of the contact used for rebooting the device.*
- GPI\_StatusControlList\_t [DCM::DeviceControl::GetGpi](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Queries the status of the 5 contacts.*

- void `DCM::DeviceControl::SetGpi` (in `GPI_StatusControlList_t` `GpiStatusList`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the status of the 5 contacts Only the Number and Status or Control member of `GPI_StatusControl_t` are taken into account, the other members are ignored in this call.*

- void `DCM::DeviceControl::FCS_SetDeviceIdSelectGpiPin` (in unsigned short `BoardNumber`, in unsigned short `GpiPinNumber`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the Gpi Pin that is used to identify the device for customer specific Scte53 commands When the selected pin is asserted, the board will handle customer specific Scte35 commands targeted for the backup/secondary device.*

- void `DCM::DeviceControl::FCS_GetDeviceIdSelectGpiPin` (in unsigned short `BoardNumber`, out unsigned short `GpiPinNumber`) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the Gpi Pin that is used to identify the device for customer specific Scte53 commands.*

#### Variables

- const unsigned long `DCM::DeviceControl::CONTACT_COUNT` = 5

#### 8.74.1 Detailed Description

This contains types, enums and methods to get/set GPI settings.

#### 8.74.2 Typedef Documentation

##### 8.74.2.1 typedef sequence<GPI\_Settings\_t> DCM::DeviceControl::GPI\_SettingsList\_t

Definition at line 31583 of file `DCM.idl`.

##### 8.74.2.2 typedef sequence<GPI\_StatusControl\_t> DCM::DeviceControl::GPI\_StatusControlList\_t

Definition at line 31596 of file `DCM.idl`.

#### 8.74.3 Enumeration Type Documentation

##### 8.74.3.1 enum DCM::DeviceControl::eGPI\_Assert\_t

Enumerator:

**eLow** gpi pin active low  
**eHigh** gpi pin active high

Definition at line 31568 of file `DCM.idl`.

##### 8.74.3.2 enum DCM::DeviceControl::eGPI\_IO\_t

Enumerator:

**eInput** gpi pin used as input  
**eOutput** gpi pin used as output

Definition at line 31562 of file `DCM.idl`.



## 8.74.4 Function Documentation

**8.74.4.1** void DCM::DeviceControl::FCS\_GetDeviceIdSelectGpiPin ( in unsigned short *BoardNumber*, out unsigned short *GpiPinNumber* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Gets the Gpi Pin that is used to identify the device for customer specific Scte53 commands.

## Parameters

|     |                     |                                                                                                          |
|-----|---------------------|----------------------------------------------------------------------------------------------------------|
| in  | <i>BoardNumber</i>  | : The board number for which to set the identifier select pin                                            |
| out | <i>GpiPinNumber</i> | : The Gpi pin number that selects the device identifier (valid values 2..5), 0 means no pin configured.. |

## Exceptions

|                       |                                |
|-----------------------|--------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main board. |
|-----------------------|--------------------------------|

## Version

Release 7.1

**8.74.4.2** void DCM::DeviceControl::FCS\_SetDeviceIdSelectGpiPin ( in unsigned short *BoardNumber*, in unsigned short *GpiPinNumber* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets the Gpi Pin that is used to identify the device for customer specific Scte53 commands When the selected pin is asserted, the board will handle customer specific Scte35 commands targeted for the backup/secondary device.

## Parameters

|    |                     |                                                                                                         |
|----|---------------------|---------------------------------------------------------------------------------------------------------|
| in | <i>BoardNumber</i>  | : The board number for which to set the identifier select pin                                           |
| in | <i>GpiPinNumber</i> | : The Gpi pin number that selects the device identifier (valid values 2..5), 0 means no pin configured. |

## Exceptions

|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | When BoardNr = 0 = Main board.                                                         |
| <i>OpNotSucceeded</i> | In case <ul style="list-style-type: none"> <li>invalid GpiPinNumber is used</li> </ul> |

## Version

Release 7.1

**8.74.4.3** GPI\_StatusControlList\_t DCM::DeviceControl::GetGpi ( ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Queries the status of the 5 contacts.

**Returns**

GPI\_StatusControlList\_t List of [GPI\\_StatusControl\\_t](#)

**Exceptions**

|                       |                                                                      |
|-----------------------|----------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing                            |
| <i>OpNotSucceeded</i> | Internal error                                                       |
| <i>OpNotAllowed</i>   | Not logged in                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version |

**Version**

Release 7.1

**8.74.4.4 unsigned short DCM::DeviceControl::GetGpiRebootContact ( ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Gets the number of the contact used for rebooting the device.

**Returns**

Number of the contact; 0 in case no number has been set

**Exceptions**

|                       |                                                                      |
|-----------------------|----------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing                            |
| <i>OpNotSucceeded</i> | Internal error                                                       |
| <i>OpNotAllowed</i>   | Not logged in                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version |

**Version**

Release 7.1

**8.74.4.5 GPI\_SettingsList\_t DCM::DeviceControl::GetGpiSettings ( ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Gets the settings for the 5 contacts.

**Returns**

GPI\_SettingsList\_t List of [GPI\\_Settings\\_t](#)

**Exceptions**

|                       |                                                                      |
|-----------------------|----------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing                            |
| <i>OpNotSucceeded</i> | Internal error                                                       |
| <i>OpNotAllowed</i>   | Not logged in                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version |

**Version**

Release 7.1

**8.74.4.6 void DCM::DeviceControl::SetGpi ( in GPI\_StatusControlList\_t *GPiStatusList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)**

Sets the status of the 5 contacts Only the Number and Status or Control member of [GPI\\_StatusControl\\_t](#) are taken into account, the other members are ignored in this call.

**Parameters**

|    |                      |                                             |
|----|----------------------|---------------------------------------------|
| in | <i>GPiStatusList</i> | List of <a href="#">GPI_StatusControl_t</a> |
|----|----------------------|---------------------------------------------|

**Exceptions**

|                       |                                                                      |
|-----------------------|----------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing                            |
| <i>OpNotSucceeded</i> | Internal error                                                       |
| <i>OpNotAllowed</i>   | Not logged in                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version |

**Version**

Release 7.1

**8.74.4.7 void DCM::DeviceControl::SetGpiRebootContact ( in unsigned short *ContactNumber* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)**

Sets the number of the contact used for rebooting the device.

**Parameters**

|    |                       |                |
|----|-----------------------|----------------|
| in | <i>Contact-Number</i> | of the contact |
|----|-----------------------|----------------|

**Exceptions**

|                       |                                                                      |
|-----------------------|----------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing                            |
| <i>OpNotSucceeded</i> | Internal error                                                       |
| <i>OpNotAllowed</i>   | Not logged in                                                        |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version |
| <i>OutOfRange</i>     | A contact with the given number does not exist                       |

**Version**

Release 7.1

**8.74.4.8 void DCM::DeviceControl::SetGpiSettings ( in GPI\_SettingsList\_t *GpiSettingsList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OutOfRange)**

Sets the settings for the 5 contacts.

**Parameters**

|    |                        |                                        |
|----|------------------------|----------------------------------------|
| in | <i>GpiSettingsList</i> | List of <a href="#">GPI_Settings_t</a> |
|----|------------------------|----------------------------------------|

**Exceptions**

|                       |                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing                                                                                                    |
| <i>OpNotSucceeded</i> | Internal error                                                                                                                               |
| <i>OpNotAllowed</i>   | Not logged in                                                                                                                                |
| <i>OpNotSupported</i> | Thrown if this call is not supported in the running software version                                                                         |
| <i>LicenseError</i>   | - When the appropriate license is not installed <ul style="list-style-type: none"><li>• Not enough licenses of this type available</li></ul> |
| <i>OutOfRange</i>     | Too many elements in the specified list                                                                                                      |

**Version**

Release 7.1

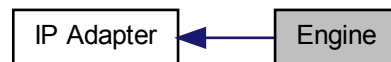
**8.74.5 Variable Documentation****8.74.5.1 const unsigned long DCM::DeviceControl::CONTACT\_COUNT = 5**

Definition at line 31560 of file DCM.idl.

## 8.75 Engine

Contains methods to control the Script Engine.

Collaboration diagram for Engine:



### Classes

- struct [DCM::DeviceControl::ScriptEntry\\_t](#)

### Typedefs

- typedef sequence< ScriptEntry\_t > [DCM::DeviceControl::ScriptEntryList\\_t](#)

### Functions

- void [DCM::DeviceControl::AddNewScript](#) (in ByteStream ScriptContents) raises (TimeOut, OpNotSucceeded, LicenseError)  
*Add a new script to the the list of installed scripts.*
- void [DCM::DeviceControl::DeleteScript](#) (in unsigned long ScriptId) raises (TimeOut, OpNotSucceeded, LicenseError)  
*Delete an existing script.*
- void [DCM::DeviceControl::GetScriptsList](#) (out ScriptEntryList\_t ScriptList) raises (TimeOut, LicenseError)  
*Get the list of currently installed scripts.*
- void [DCM::DeviceControl::RunScript](#) (in unsigned long ScriptId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, LicenseError)  
*Run an existing script.*
- void [DCM::DeviceControl::UploadScriptResource](#) (in unsigned long ScriptId, in string FileName, in ByteStream FileContents) raises (TimeOut, OpNotSucceeded, LicenseError)  
*Upload a file to be used by the script (resource, config file,...)*
- void [DCM::DeviceControl::StopScript](#) (in unsigned long ScriptId) raises (TimeOut, OpNotSucceeded, LicenseError)  
*Stop a running script.*
- void [DCM::DeviceControl::SetAutorunScript](#) (in unsigned long ScriptId, in boolean AutoRun) raises (TimeOut, OpNotSucceeded, LicenseError)  
*Change the autorun property of a script, if set to true script will also start.*
- void [DCM::DeviceControl::StopAllScripts](#) () raises (TimeOut, LicenseError)  
*Stop all running scripts.*

- void [DCM::DeviceControl::GetScriptLogfile](#) (in unsigned long ScriptId, out string LogContents) raises (TimeOut, OpNotSucceeded, LicenseError)

*Get a logfile of an installed script.*

### 8.75.1 Detailed Description

Contains methods to control the Script Engine.

### 8.75.2 Typedef Documentation

#### 8.75.2.1 typedef sequence<ScriptEntry\_t> DCM::DeviceControl::ScriptEntryList\_t

Definition at line 31760 of file DCM.idl.

### 8.75.3 Function Documentation

#### 8.75.3.1 void DCM::DeviceControl::AddNewScript ( in ByteStream *ScriptContents* ) raises (TimeOut, OpNotSucceeded, LicenseError)

Add a new script to the the list of installed scripts.

#### Parameters

|    |                       |                                                 |
|----|-----------------------|-------------------------------------------------|
| in | <i>ScriptContents</i> | The full script, with description and signature |
|----|-----------------------|-------------------------------------------------|

#### Exceptions

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| <i>OpNotSucceeded</i> | : Script couldn't be verified                   |
| <i>LicenseError</i>   | : when the appropriate license is not installed |

#### Version

release 8.2

#### 8.75.3.2 void DCM::DeviceControl::DeleteScript ( in unsigned long *ScriptId* ) raises (TimeOut, OpNotSucceeded, LicenseError)

Delete an existing script.

#### Parameters

|    |                 |                               |
|----|-----------------|-------------------------------|
| in | <i>ScriptId</i> | The ID assigned to the script |
|----|-----------------|-------------------------------|

#### Exceptions

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| <i>OpNotSucceeded</i> | : Script was not in the list                    |
| <i>LicenseError</i>   | : when the appropriate license is not installed |

**Version**

release 8.2

**8.75.3.3** void DCM::DeviceControl::GetScriptLogfile ( in unsigned long *ScriptId*, out string *LogContents* ) raises (Timeout, OpNotSucceeded, LicenseError)

Get a logfile of an installed script.

**Parameters**

|     |                    |                               |
|-----|--------------------|-------------------------------|
| in  | <i>ScriptId</i>    | The ID assigned to the script |
| out | <i>LogContents</i> | The full log of this script   |

**Exceptions**

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| <i>OpNotSucceeded</i> | : Script was not in the list                    |
| <i>LicenseError</i>   | : when the appropriate license is not installed |

**Version**

release 8.2

**8.75.3.4** void DCM::DeviceControl::GetScriptsList ( out ScriptEntryList\_t *ScriptList* ) raises (Timeout, LicenseError)

Get the list of currently installed scripts.

**Parameters**

|     |                   |                                         |
|-----|-------------------|-----------------------------------------|
| out | <i>ScriptList</i> | list of all scripts currently installed |
|-----|-------------------|-----------------------------------------|

**Exceptions**

|                     |                                                 |
|---------------------|-------------------------------------------------|
| <i>LicenseError</i> | : when the appropriate license is not installed |
|---------------------|-------------------------------------------------|

**Version**

release 8.2

**8.75.3.5** void DCM::DeviceControl::RunScript ( in unsigned long *ScriptId* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, LicenseError)

Run an existing script.

**Parameters**

|    |                 |                               |
|----|-----------------|-------------------------------|
| in | <i>ScriptId</i> | The ID assigned to the script |
|----|-----------------|-------------------------------|

**Exceptions**

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| <i>OpNotSucceeded</i> | : Script was not in the list                    |
| <i>OpNotAllowed</i>   | : Script is already running                     |
| <i>LicenseError</i>   | : when the appropriate license is not installed |

**Version**

release 8.2

**8.75.3.6** void DCM::DeviceControl::SetAutorunScript ( in unsigned long *ScriptId*, in boolean *AutoRun* ) raises (TimeOut, OpNotSucceeded, LicenseError)

Change the autorun property of a script, if set to true script will also start.

**Parameters**

|    |                 |                                        |
|----|-----------------|----------------------------------------|
| in | <i>ScriptId</i> | The ID assigned to the script          |
| in | <i>AutoRun</i>  | Set the autorun property to this value |

**Exceptions**

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| <i>OpNotSucceeded</i> | : Script was not in the list                    |
| <i>LicenseError</i>   | : when the appropriate license is not installed |

**Version**

release 8.2

**8.75.3.7** void DCM::DeviceControl::StopAllScripts ( ) raises (TimeOut, LicenseError)

Stop all running scripts.

**Exceptions**

|                     |                                                 |
|---------------------|-------------------------------------------------|
| <i>LicenseError</i> | : when the appropriate license is not installed |
|---------------------|-------------------------------------------------|

**Version**

release 8.2

**8.75.3.8** void DCM::DeviceControl::StopScript ( in unsigned long *ScriptId* ) raises (TimeOut, OpNotSucceeded, LicenseError)

Stop a running script.

**Parameters**

|    |                 |                               |
|----|-----------------|-------------------------------|
| in | <i>ScriptId</i> | The ID assigned to the script |
|----|-----------------|-------------------------------|



**Exceptions**

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| <i>OpNotSucceeded</i> | : Script was not in the list                    |
| <i>LicenseError</i>   | : when the appropriate license is not installed |

**Version**

release 8.2

**8.75.3.9** void DCM::DeviceControl::UploadScriptResource ( in unsigned long *ScriptId*, in string *FileName*, in ByteStream *FileContents* ) raises (TimeOut, OpNotSucceeded, LicenseError)

Upload a file to be used by the script (resource, config file,...)

**Parameters**

|    |                     |                                                                         |
|----|---------------------|-------------------------------------------------------------------------|
| in | <i>ScriptId</i>     | The ID assigned to the script                                           |
| in | <i>FileName</i>     | the name of the file to be uploaded                                     |
| in | <i>FileContents</i> | bytestream of a file, configuration file or resource used by the script |

**Exceptions**

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| <i>OpNotSucceeded</i> | : Script was not in the list                    |
| <i>LicenseError</i>   | : when the appropriate license is not installed |

**Version**

release 8.2

## 8.76 Redundancy

Contains methods to for the Anycast Redundancy feature.

Collaboration diagram for Redundancy:



### Classes

- struct [DCM::DeviceControl::RipSettings\\_t](#)
- struct [DCM::DeviceControl::RipBoardSettings](#)
- struct [DCM::DeviceControl::RipInterfaceSettings](#)
- struct [DCM::DeviceControl::RipTsSettings\\_t](#)
- struct [DCM::DeviceControl::OutputTsLossTriggerPerTs\\_t](#)
- struct [DCM::DeviceControl::OutputTsLossTriggerBitmapPerTs\\_t](#)

### Typedefs

- typedef sequence < RipInterfaceSettings > [DCM::DeviceControl::RipInterfaceSettingsList\\_t](#)
- typedef sequence< RipTsSettings\_t > [DCM::DeviceControl::RipTsSettingsList\\_t](#)
- typedef octet [DCM::DeviceControl::OutputTsLossTrigger\\_t](#)
- typedef sequence < OutputTsLossTriggerPerTs\_t > [DCM::DeviceControl::OutputTsLossTriggerPerTsList\\_t](#)
- typedef unsigned long [DCM::DeviceControl::OutputTsLossTriggerBitmap\\_t](#)  
*Bitmap of Output TS loss triggers.*
- typedef sequence < OutputTsLossTriggerBitmapPerTs\_t > [DCM::DeviceControl::OutputTsLossTriggerBitmapPerTsList\\_t](#)

### Functions

- void [DCM::DeviceControl::OutTS\\_SrcAddrScheme\\_SetL](#) (in unsigned short BoardNbr, in boolean UseScheme, in string IP, in string SubNetMask) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Set SourceIp Scheme for new TS created with [IPS\\_OutTS\\_AddL\(\)](#).*
- void [DCM::DeviceControl::OutTS\\_SrcAddrScheme\\_GetL](#) (in unsigned short BoardNbr, out boolean UseScheme, out string IP, out string SubNetMask) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Get SourceIp Scheme for a new TS.*
- void [DCM::DeviceControl::GetRipBoardSettings](#) (in unsigned short BoardNbr, out RipBoardSettings Settings) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Get the board-wide RIP settings.*

- void [DCM::DeviceControl::SetRipBoardSettings](#) (in unsigned short BoardNbr, in RipBoardSettings Settings) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Set the board-wide RIP settings.*
- void [DCM::DeviceControl::GetRipInterfaceSettingsL](#) (in unsigned short BoardNbr, in PortList\_t Ports, out RipInterfaceSettingsList\_t Settings) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Get the RIP Interface settings.*
- void [DCM::DeviceControl::SetRipInterfaceSettingsL](#) (in unsigned short BoardNbr, in RipInterfaceSettingsList\_t Settings) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Get the RIP Interface settings.*
- void [DCM::DeviceControl::GetRipTsSettingsL](#) (in unsigned short BoardNbr, in IPS\_RefTS\_List\_t TSRefs, out RipTsSettingsList\_t Settings) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Get RIP TS-specific Settings.*
- void [DCM::DeviceControl::SetRipTsSettingsL](#) (in unsigned short BoardNbr, in RipTsSettingsList\_t Settings) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Get RIP TS-specific Settings.*
- void [DCM::DeviceControl::GetDefaultOutputTsLossTriggers](#) (in unsigned short BoardNbr, out OutputTsLossTrigger\_t Trigger) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Get the default Output TS Loss trigger.*
- void [DCM::DeviceControl::SetDefaultOutputTsLossTriggers](#) (in unsigned short BoardNbr, in OutputTsLossTrigger\_t Trigger) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Set the default Output TS Loss trigger.*
- void [DCM::DeviceControl::GetOutputTsLossTriggerL](#) (in IPS\_Ref\_t PhysRef, in IPS\_RefTS\_List\_t TSRefs, out OutputTsLossTriggerPerTsList\_t Triggers) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Get the Output TS Loss Triggers for the given TSs.*
- void [DCM::DeviceControl::SetOutputTsLossTriggerL](#) (in IPS\_Ref\_t PhysRef, in OutputTsLossTriggerPerTsList\_t Triggers) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Set the Output TS Loss Triggers for the given TSs.*
- void [DCM::DeviceControl::GetDefaultOutputTsLossTriggerBmp](#) (in unsigned short BoardNbr, out OutputTsLossTriggerBitmap\_t TriggerBitmap) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Get the default Output TS Loss trigger bitmap.*
- void [DCM::DeviceControl::SetDefaultOutputTsLossTriggerBmp](#) (in unsigned short BoardNbr, in OutputTsLossTriggerBitmap\_t TriggerBitmap) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Set the default Output TS Loss trigger bitmap.*
- void [DCM::DeviceControl::GetOutputTsLossTriggerBitmapL](#) (in IPS\_Ref\_t PhysRef, in IPS\_RefTS\_List\_t TSRefs, out OutputTsLossTriggerBitmapPerTsList\_t TriggerBitmaps) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Get the Output TS Loss Triggers for the given TSs.*
- void [DCM::DeviceControl::SetOutputTsLossTriggerBitmapL](#) (in unsigned short BoardNr, in OutputTsLossTriggerBitmapPerTsList\_t TriggerBitmaps) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Set the Output TS Loss Triggers for the given TSs.*

## Variables

- const OutputTsLossTrigger\_t [DCM::DeviceControl::OutputTS\\_LossTrigger\\_Disabled](#) = 0
- const OutputTsLossTrigger\_t [DCM::DeviceControl::OutputTS\\_LossTrigger\\_OneService](#) = 1
- const OutputTsLossTrigger\_t [DCM::DeviceControl::OutputTS\\_LossTrigger\\_AllServices](#) = 2

## 8.76.1 Detailed Description

Contains methods to for the Anycast Redundancy feature.

## 8.76.2 Typedef Documentation

8.76.2.1 typedef `octet DCM::DeviceControl::OutputTsLossTrigger_t`

Definition at line 32037 of file DCM.idl.

8.76.2.2 typedef `unsigned long DCM::DeviceControl::OutputTsLossTriggerBitmap_t`

Bitmap of Output TS loss triggers.

- bit 0: indicates that one service should fail to trigger TS loss (compatible with OutputTsLossTrigger\_t).
- bit 1: indicates that all services should be failing to trigger TS loss (compatible with OutputTsLossTrigger\_t).
- bit 2: indicates that 'Stuffing Bitrate Too Low' can trigger TS loss (by default enabled)
- bit 3: indicates that 'Payload Bitrate Too Low' can trigger TS loss (by default enabled)
- bit 4: indicates that TS loss can be triggered by a failing GPS signal (PLL too long in holdover - by default disabled) note: bit 0 and bit 1 cannot be set at the same time note2: the holdover bit (bit 4) can only be set for a TS on a ASI SFN MkII board

Definition at line 32097 of file DCM.idl.

8.76.2.3 typedef `sequence<OutputTsLossTriggerBitmapPerTs_t> DCM::DeviceControl::OutputTsLossTriggerBitmapPerTsList_t`

Definition at line 32130 of file DCM.idl.

8.76.2.4 typedef `sequence<OutputTsLossTriggerPerTs_t> DCM::DeviceControl::OutputTsLossTriggerPerTsList_t`

Definition at line 32064 of file DCM.idl.

8.76.2.5 typedef `sequence<RipInterfaceSettings> DCM::DeviceControl::RipInterfaceSettingsList_t`

Definition at line 31968 of file DCM.idl.

8.76.2.6 typedef `sequence<RipTsSettings_t> DCM::DeviceControl::RipTsSettingsList_t`

Definition at line 32003 of file DCM.idl.

## 8.76.3 Function Documentation

**8.76.3.1** void DCM::DeviceControl::GetDefaultOutputTsLossTriggerBmp ( in unsigned short *BoardNbr*, out OutputTsLossTriggerBitmap\_t *TriggerBitmap* ) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Get the default Output TS Loss trigger bitmap.

## Parameters

|     |                      |  |
|-----|----------------------|--|
| in  | <i>BoardNbr</i>      |  |
| out | <i>TriggerBitmap</i> |  |

## Version

Supported since release 10.10

**8.76.3.2** void DCM::DeviceControl::GetDefaultOutputTsLossTriggers ( in unsigned short *BoardNbr*, out OutputTsLossTrigger\_t *Trigger* ) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Get the default Output TS Loss trigger.

## Parameters

|     |                 |  |
|-----|-----------------|--|
| in  | <i>BoardNbr</i> |  |
| out | <i>Trigger</i>  |  |

**8.76.3.3** void DCM::DeviceControl::GetOutputTsLossTriggerBitmapL ( in IPS\_Ref\_t *PhysRef*, in IPS\_RefTS\_List\_t *TSRefs*, out OutputTsLossTriggerBitmapPerTsList\_t *TriggerBitmaps* ) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Get the Output TS Loss Triggers for the given TSs.

## Parameters

|     |                       |                                           |
|-----|-----------------------|-------------------------------------------|
| in  | <i>PhysRef</i>        |                                           |
| in  | <i>TSRefs</i>         | List of TSs                               |
| out | <i>TriggerBitmaps</i> | List of trigger bitmaps for the given TSs |

## Note

- Wildcards can be used
  - PortNr = 0xFFFF in combination with empty TSRefs list: all TS's on all ports are processed
  - Empty TSRefs list: all TS's on a specified port (depending on PhysRef.PortNr) are processed

## Version

Supported since release 10.10

**8.76.3.4** void DCM::DeviceControl::GetOutputTsLossTriggerL ( in IPS\_Ref\_t *PhysRef*, in IPS\_RefTS\_List\_t *TSRefs*, out OutputTsLossTriggerPerTsList\_t *Triggers* ) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Get the Output TS Loss Triggers for the given TSs.

#### Parameters

|     |                 |                                    |
|-----|-----------------|------------------------------------|
| in  | <i>PhysRef</i>  |                                    |
| in  | <i>TSRefs</i>   | List of TSs                        |
| out | <i>Triggers</i> | List of triggers for the given TSs |

**8.76.3.5** void DCM::DeviceControl::GetRipBoardSettings ( in unsigned short *BoardNbr*, out RipBoardSettings *Settings* ) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Get the board-wide RIP settings.

#### Parameters

|     |                 |                           |
|-----|-----------------|---------------------------|
| in  | <i>BoardNbr</i> |                           |
| out | <i>Settings</i> | Currently active settings |

#### Exceptions

|                       |                                                                                 |
|-----------------------|---------------------------------------------------------------------------------|
| <i>OpNotSupported</i> | <ul style="list-style-type: none"> <li>The board is not a GbE board.</li> </ul> |
|-----------------------|---------------------------------------------------------------------------------|

**8.76.3.6** void DCM::DeviceControl::GetRipInterfaceSettingsL ( in unsigned short *BoardNbr*, in PortList\_t *Ports*, out RipInterfaceSettingsList\_t *Settings* ) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Get the RIP Interface settings.

#### Parameters

|     |                 |                                             |
|-----|-----------------|---------------------------------------------|
| in  | <i>BoardNbr</i> |                                             |
| in  | <i>Ports</i>    | List of interfaces to request settings from |
| out | <i>Settings</i> | Settings for the given ports                |

#### Exceptions

|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>Board is not a GbE board</li> <li>Invalid board or port specified.</li> </ul> |
|------------------------|----------------------------------------------------------------------------------------------------------------------|

**8.76.3.7** void DCM::DeviceControl::GetRipTsSettingsL ( in unsigned short *BoardNbr*, in IPS\_RefTS\_List\_t *TSRefs*, out RipTsSettingsList\_t *Settings* ) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Get RIP TS-specific Settings.

#### Parameters

|     |                 |                               |
|-----|-----------------|-------------------------------|
| in  | <i>BoardNbr</i> |                               |
| in  | <i>TSRefs</i>   | List of TSRefs                |
| out | <i>Settings</i> | Settings for all given TSRefs |

#### Exceptions

|                        |                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>Board is not a GbE Board</li> <li>Invalid TS specified</li> </ul> |
|------------------------|----------------------------------------------------------------------------------------------------------|

**8.76.3.8** void DCM::DeviceControl::OutTS\_SrcAddrScheme\_GetL ( in unsigned short *BoardNbr*, out boolean *UseScheme*, out string *IP*, out string *SubNetMask* ) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Get SourceIp Scheme for a new TS.

#### Parameters

|     |                   |                                                        |
|-----|-------------------|--------------------------------------------------------|
| in  | <i>BoardNbr</i>   | boardwide setting for GbE boards.                      |
| out | <i>UseScheme</i>  | use this scheme as default or use the GbE Port Address |
| out | <i>IP</i>         | Start IP Address                                       |
| out | <i>SubNetMask</i> | default SubNetMask, used to increment                  |

#### Exceptions

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, ASI,...). |
|-----------------------|-------------------------------------------------------------|

**8.76.3.9** void DCM::DeviceControl::OutTS\_SrcAddrScheme\_SetL ( in unsigned short *BoardNbr*, in boolean *UseScheme*, in string *IP*, in string *SubNetMask* ) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Set SourceIp Scheme for new TS created with [IPS\\_OutTS\\_AddL\(\)](#).

#### Parameters

|    |                   |                                                        |
|----|-------------------|--------------------------------------------------------|
| in | <i>BoardNbr</i>   | boardwide setting for GbE boards.                      |
| in | <i>UseScheme</i>  | use this scheme as default or use the GbE Port Address |
| in | <i>IP</i>         | Start IP Address                                       |
| in | <i>SubNetMask</i> | default SubNetMask, used to increment                  |

#### Exceptions

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| <i>OpNotSupported</i> | When called for other boards than GbE ones (Main, ASI,...). |
|-----------------------|-------------------------------------------------------------|

|                        |                                                                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | In case of <ul style="list-style-type: none"> <li>Invalid IPaddress (not valid IP address: IPv4 format).</li> <li>Invalid SubNetMask (not valid IP address, not all 1's followed by all 0's).</li> </ul> |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Note**

Incrementing is done based on the SubNetMask: e.g. SubNetMask = 255.255.0.0, Start IP address = 192.10.0.1 => next IP address is 192.11.0.1 SubNetMask = 255.255.255.255, Start IP address = 192.10.0.1 => next IP address is 192.10.0.2

IP address is not unique over different I/O boards.

only unicast host ip addresses are accepted: 1.0.0.0 to 223.255.255.255 with exception of 127.x.y.z

**8.76.3.10** void DCM::DeviceControl::SetDefaultOutputTsLossTriggerBmp ( in unsigned short *BoardNbr*, in OutputTsLossTriggerBitmap\_t *TriggerBitmap* ) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Set the default Output TS Loss trigger bitmap.

**Parameters**

|    |                      |  |
|----|----------------------|--|
| in | <i>BoardNbr</i>      |  |
| in | <i>TriggerBitmap</i> |  |

**Exceptions**

|                        |                                                                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>Undefined trigger bits were set.</li> <li>Both service loss bits were set (bit 0 and bit 1)</li> <li>The GPS Holdover trigger bit (bit 4) was set for a non-ASI SFN MkII board</li> </ul> |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Version**

Supported since release 10.10

**8.76.3.11** void DCM::DeviceControl::SetDefaultOutputTsLossTriggers ( in unsigned short *BoardNbr*, in OutputTsLossTrigger\_t *Trigger* ) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Set the default Output TS Loss trigger.

**Parameters**

|    |                 |  |
|----|-----------------|--|
| in | <i>BoardNbr</i> |  |
| in | <i>Trigger</i>  |  |



**8.76.3.12** void DCM::DeviceControl::SetOutputTsLossTriggerBitmapL ( in unsigned short *BoardNr*, in OutputTsLossTriggerBitmapPerTsList\_t *TriggerBitmaps* ) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Set the Output TS Loss Triggers for the given TSs.

#### Parameters

|    |                       |                                           |
|----|-----------------------|-------------------------------------------|
| in | <i>BoardNr</i>        |                                           |
| in | <i>TriggerBitmaps</i> | List of trigger bitmaps for the given TSs |

#### Exceptions

|                        |                                                                                                                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | <ul style="list-style-type: none"><li>• An invalid TS or port was specified.</li><li>• Undefined trigger bits were set.</li><li>• Both service loss bits were set (bit 0 and bit 1)</li><li>• The GPS Holdover trigger bit (bit 4) was set for a TS that is not running on a ASI SFN MkII board</li></ul> |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Version

Supported since release 10.10

**8.76.3.13** void DCM::DeviceControl::SetOutputTsLossTriggerL ( in IPS\_Ref\_t *PhysRef*, in OutputTsLossTriggerPerTsList\_t *Triggers* ) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Set the Output TS Loss Triggers for the given TSs.

#### Parameters

|    |                 |                                    |
|----|-----------------|------------------------------------|
| in | <i>PhysRef</i>  |                                    |
| in | <i>Triggers</i> | List of triggers for the given TSs |

#### Exceptions

|                        |                                                                                        |
|------------------------|----------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | <ul style="list-style-type: none"><li>• An invalid TS or port was specified.</li></ul> |
|------------------------|----------------------------------------------------------------------------------------|

**8.76.3.14** void DCM::DeviceControl::SetRipBoardSettings ( in unsigned short *BoardNbr*, in RipBoardSettings *Settings* ) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Set the board-wide RIP settings.

#### Parameters

|    |                 |              |
|----|-----------------|--------------|
| in | <i>BoardNbr</i> |              |
| in | <i>Settings</i> | New settings |

**Exceptions**

|                        |                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>• The board is not a GbE board.</li> <li>• Any of the values is out of range.</li> </ul> |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------|

**8.76.3.15** void DCM::DeviceControl::SetRipInterfaceSettingsL ( in unsigned short *BoardNbr*, in RipInterfaceSettingsList\_t *Settings* ) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Get the RIP Interface settings.

**Parameters**

|    |                 |                              |
|----|-----------------|------------------------------|
| in | <i>BoardNbr</i> |                              |
| in | <i>Settings</i> | Settings for the given ports |

**Exceptions**

|                        |                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i>  | <ul style="list-style-type: none"> <li>• Board is not a GbE board</li> <li>• Invalid board or port specified.</li> <li>• Invalid router address</li> </ul> |
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>• Unsupported boardnr</li> </ul>                                                                                    |

**8.76.3.16** void DCM::DeviceControl::SetRipTsSettingsL ( in unsigned short *BoardNbr*, in RipTsSettingsList\_t *Settings* ) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

Get RIP TS-specific Settings.

**Parameters**

|    |                 |                               |
|----|-----------------|-------------------------------|
| in | <i>BoardNbr</i> |                               |
| in | <i>Settings</i> | Settings for all given TSRefs |

**Exceptions**

|                        |                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>OpNotSucceeded</i>  | <ul style="list-style-type: none"> <li>• Board is not a GbE Board</li> <li>• Invalid TS specified</li> <li>• Parameters out of range</li> </ul> |
| <i>OperationFailed</i> | <ul style="list-style-type: none"> <li>• Board is not a GbE Board</li> <li>• Invalid parameters</li> </ul>                                      |

#### 8.76.4 Variable Documentation

**8.76.4.1** `const OutputTsLossTrigger_t DCM::DeviceControl::OutputTS_LossTrigger_AllServices = 2`

Definition at line 32040 of file DCM.idl.

**8.76.4.2** `const OutputTsLossTrigger_t DCM::DeviceControl::OutputTS_LossTrigger_Disabled = 0`

Definition at line 32038 of file DCM.idl.

**8.76.4.3** `const OutputTsLossTrigger_t DCM::DeviceControl::OutputTS_LossTrigger_OneService = 1`

Definition at line 32039 of file DCM.idl.

## 8.77 idl

Contains methods to for engineering tests.

Collaboration diagram for idl:



### Functions

- void **DCM::DeviceControl::ReturnOperationFailedException** (in unsigned short *Type*, in string - *Explantion*) raises (OperationFailed)  
*Return an OperationFailed Exception.*

#### 8.77.1 Detailed Description

Contains methods to for engineering tests.

#### 8.77.2 Function Documentation

**8.77.2.1 void DCM::DeviceControl::ReturnOperationFailedException ( in unsigned short *Type*, in string *Explantion* ) raises (OperationFailed)**

Return an OperationFailed Exception.

This operation is added when adding the new exception to test this before other operations start returning the exception. !!!! THIS OPERATION CAN BE REMOVED AT ANY MOMENT.

#### Parameters

|    |                   |                                                              |
|----|-------------------|--------------------------------------------------------------|
| in | <i>Type</i>       | Type, represented by the first 2 bytes of the exception info |
| in | <i>Explantion</i> | Explantion, represented by the rest of the exception info    |

#### Exceptions

|                       |                              |
|-----------------------|------------------------------|
| <i>OpNotSucceeded</i> | : Script was not in the list |
|-----------------------|------------------------------|

#### Version

release 8.7

## 8.78 BitrateThresholdAlarms

### Classes

- struct [DCM::DeviceControl::BitrateAlarmSetting\\_t](#)  
*Structure to pass payload and stuffing bitrate threshold alarm settings.*
- struct [DCM::DeviceControl::OutTS\\_AlarmSetting\\_t](#)  
*Structure to pass payload and stuffing bitrate threshold alarm settings to one specific TS.*

### Typedefs

- typedef sequence < [OutTS\\_AlarmSetting\\_t](#) > [DCM::DeviceControl::OutTS\\_AlarmSettingList\\_t](#)  
*List of alarm settings.*
- typedef sequence< unsigned long > [DCM::DeviceControl::RefList\\_t](#)  
*List of TS indices.*

### Functions

- void [DCM::DeviceControl::OutTsSetBitrateThresholdL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [OutTS\\_AlarmSettingList\\_t](#) AlarmList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets bitrate threshold alarm parameters for a (number of) TS(s).*
- [OutTS\\_AlarmSettingList\\_t](#) [DCM::DeviceControl::OutTsGetBitrateThresholdL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [RefList\\_t](#) TsIdxs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the bitrate threshold alarm parameters for a (number of) TS(s).*
- void [DCM::DeviceControl::SetBitrateAlarmDefaults](#) (in unsigned short Board, in [BitrateAlarmSetting\\_t](#) BitrateAlarm) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets bitrate threshold alarm default parameters.*
- [BitrateAlarmSetting\\_t](#) [DCM::DeviceControl::GetBitrateAlarmDefaults](#) (in unsigned short Board) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves bitrate threshold alarm default parameters.*

### 8.78.1 Typedef Documentation

#### 8.78.1.1 typedef sequence<OutTS\_AlarmSetting\_t> DCM::DeviceControl::OutTS\_AlarmSettingList\_t

List of alarm settings.

Definition at line 23001 of file DCM.idl.

#### 8.78.1.2 typedef sequence<unsigned long> DCM::DeviceControl::RefList\_t

List of TS indices.

Definition at line 23002 of file DCM.idl.

### 8.78.2 Function Documentation

#### 8.78.2.1 BitrateAlarmSetting\_t DCM::DeviceControl::GetBitrateAlarmDefaults ( in unsigned short Board ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves bitrate threshold alarm default parameters.

**Parameters**

|    |              |                                               |
|----|--------------|-----------------------------------------------|
| in | <i>Board</i> | The board from which the settings are needed. |
|----|--------------|-----------------------------------------------|

**8.78.2.2** `OutTS_AlarmSettingList_t DCM::DeviceControl::OutTsGetBitrateThresholdL ( in IPS_Ref_t PhysRef, in RefList_t TsIdxs )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Retrieves the bitrate threshold alarm parameters for a (number of) TS(s).

**Parameters**

|    |                |                                                                                                                                                        |
|----|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| in | <i>PhysRef</i> | The port from which the settings are needed.                                                                                                           |
| in | <i>TsIdxs</i>  | A list holding the TS indexes from which the settings are needed. This list can be left empty to return the settings for all TSs on the given PhysRef. |

**8.78.2.3** `void DCM::DeviceControl::OutTsSetBitrateThresholdL ( in IPS_Ref_t PhysRef, in OutTS_AlarmSettingList_t AlarmList )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets bitrate threshold alarm parameters for a (number of) TS(s).

**Parameters**

|    |                  |                                                                                  |
|----|------------------|----------------------------------------------------------------------------------|
| in | <i>PhysRef</i>   | The port for which the settings are intended.                                    |
| in | <i>AlarmList</i> | A list holding the new settings in combination with the TS they're intended for. |

**8.78.2.4** `void DCM::DeviceControl::SetBitrateAlarmDefaults ( in unsigned short Board, in BitrateAlarmSetting_t BitrateAlarm )` raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

Sets bitrate threshold alarm default parameters.

**Parameters**

|    |                     |                                                |
|----|---------------------|------------------------------------------------|
| in | <i>Board</i>        | The board for which the settings are intended. |
| in | <i>BitrateAlarm</i> | The new default settings.                      |

## 8.79 Statmux

### Classes

- struct [DCM::DeviceControl::SMX\\_PoolRef\\_t](#)
- struct [DCM::DeviceControl::SMX\\_StatMuxPool](#)
- struct [DCM::DeviceControl::SMX\\_StatMuxPool\\_V2](#)
- struct [DCM::DeviceControl::SMX\\_EncRef\\_t](#)
- struct [DCM::DeviceControl::SMX\\_Encoder\\_t](#)
- struct [DCM::DeviceControl::SMX\\_ServiceRef\\_t](#)
- struct [DCM::DeviceControl::SMX\\_Service\\_t](#)
- struct [DCM::DeviceControl::SMX\\_EncVideoBitRate\\_t](#)

### Typedefs

- typedef sequence< SMX\_StatMuxPool > [DCM::DeviceControl::SMX\\_StatMuxPoolList](#)
- typedef sequence< SMX\_StatMuxPool\_V2 > [DCM::DeviceControl::SMX\\_StatMuxPoolList\\_V2](#)
- typedef sequence< SMX\_Encoder\_t > [DCM::DeviceControl::SMX\\_EncoderList](#)
- typedef sequence< SMX\_Service\_t > [DCM::DeviceControl::SMX\\_ServiceList](#)
- typedef sequence< SMX\_EncVideoBitRate\_t > [DCM::DeviceControl::SMX\\_EncVideoBitRateList](#)

### Enumerations

- enum [DCM::DeviceControl::StatMuxMode](#) { [DCM::DeviceControl::SMM\\_Async](#), [DCM::DeviceControl::SMM\\_Sync](#), [DCM::DeviceControl::SMM\\_Off](#) }
- enum [DCM::DeviceControl::ContentMode](#) { [DCM::DeviceControl::CM\\_AVC\\_MPEG2\\_Combined](#), [DCM::DeviceControl::CM\\_MPEG2](#) }
- enum [DCM::DeviceControl::EncoderState](#) { [DCM::DeviceControl::ES\\_OK](#), [DCM::DeviceControl::ES\\_Disconnected](#) }
- enum [DCM::DeviceControl::FrameRateCodes](#) { [DCM::DeviceControl::FRAME\\_RATE\\_CODE\\_23\\_HZ](#), [DCM::DeviceControl::FRAME\\_RATE\\_CODE\\_24\\_HZ](#), [DCM::DeviceControl::FRAME\\_RATE\\_CODE\\_25\\_HZ](#), [DCM::DeviceControl::FRAME\\_RATE\\_CODE\\_29\\_HZ](#), [DCM::DeviceControl::FRAME\\_RATE\\_CODE\\_30\\_HZ](#), [DCM::DeviceControl::FRAME\\_RATE\\_CODE\\_50\\_HZ](#), [DCM::DeviceControl::FRAME\\_RATE\\_CODE\\_59\\_HZ](#), [DCM::DeviceControl::FRAME\\_RATE\\_CODE\\_60\\_HZ](#) }
- enum [DCM::DeviceControl::VideoFormats](#) { [DCM::DeviceControl::MQF\\_VF\\_SD](#), [DCM::DeviceControl::MQF\\_VF\\_HD1080I](#), [DCM::DeviceControl::MQF\\_VF\\_HD720P](#), [DCM::DeviceControl::MQF\\_VF\\_HDP3](#) }
- enum [DCM::DeviceControl::EncoderType](#) { [DCM::DeviceControl::ET\\_MPEG2](#), [DCM::DeviceControl::ET\\_AVC](#) }
- enum [DCM::DeviceControl::BackupType](#) { [DCM::DeviceControl::BT\\_Main](#), [DCM::DeviceControl::BT\\_Backup](#) }
- enum [DCM::DeviceControl::SMX\\_EnablingMode\\_e](#) { [DCM::DeviceControl::SMX\\_StatmuxDisabled](#), [DCM::DeviceControl::SMX\\_StatmuxEnabled](#), [DCM::DeviceControl::SMX\\_D9036StatmuxEnabled](#) }

## Functions

- SMX\_StatMuxPoolList [DCM::DeviceControl::SMX\\_StatMuxPools\\_GetL](#) (in SMX\_PoolRef\_t PoolRef) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- SMX\_StatMuxPoolList\_V2 [DCM::DeviceControl::SMX\\_StatMuxPools\\_GetL\\_V2](#) (in SMX\_PoolRef\_t PoolRef) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [DCM::DeviceControl::SMX\\_StatMuxPools\\_SetL](#) (in unsigned short BoardNr, in SMX\_StatMuxPoolList PoolList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [DCM::DeviceControl::SMX\\_StatMuxPools\\_SetL\\_V2](#) (in unsigned short BoardNr, in SMX\_StatMuxPoolList\_V2 PoolList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- SMX\_EncoderList [DCM::DeviceControl::SMX\\_Encoders\\_GetL](#) (in SMX\_PoolRef\_t PoolRef) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- IP\_List\_t [DCM::DeviceControl::SMX\\_EncoderBlackList\\_GetL](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [DCM::DeviceControl::SMX\\_EncoderBlackList\\_AddL](#) (in unsigned short BoardNr, in IP\_List\_t EncoderList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [DCM::DeviceControl::SMX\\_EncoderBlackList\\_DeleteL](#) (in unsigned short BoardNr, in IP\_List\_t EncoderList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- SMX\_ServiceList [DCM::DeviceControl::SMX\\_Service\\_GetL](#) (in SMX\_PoolRef\_t PoolRef) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- string [DCM::DeviceControl::SMX\\_BoardSetup\\_Get](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [DCM::DeviceControl::SMX\\_BoardSetup\\_Set](#) (in unsigned short BoardNr, in string Multicast-IP) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- BackupType [DCM::DeviceControl::SMX\\_BackupType\\_Get](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [DCM::DeviceControl::SMX\\_BackupType\\_Set](#) (in unsigned short BoardNr, in BackupType -Type) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- boolean [DCM::DeviceControl::SMX\\_GetStatmux](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [DCM::DeviceControl::SMX\\_SetStatmux](#) (in unsigned short BoardNr, in boolean Enabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- SMX\_EnablingMode\_e [DCM::DeviceControl::SMX\\_GetStatmux\\_V2](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*SMX\_GetStatmux(in unsigned short BoardNr) Get the statmux enabling mode.*
- void [DCM::DeviceControl::SMX\\_SetStatmux\\_V2](#) (in unsigned short BoardNr, in SMX\_EnablingMode\_e EnableMode) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*SMX\_SetStatmux(in unsigned short BoardNr, in SMX\_EnablingMode\_e EnableMode) Sets the statmux enabling mode.*
- void [DCM::DeviceControl::SMX\\_GetStatmuxPoolBitrates](#) (in SMX\_PoolRef\_t PoolRef, out SMX\_EncVideoBitRateList EncBitRatesList, out BitRateSampleList\_t NullRateList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

## 8.79.1 Typedef Documentation

## 8.79.1.1 typedef sequence&lt;SMX\_Encoder\_t&gt; DCM::DeviceControl::SMX\_EncoderList

Definition at line 23472 of file DCM.idl.



**8.79.1.2 typedef sequence<SMX\_EncVideoBitRate\_t> DCM::DeviceControl::SMX\_EncVideoBitRateList**

Definition at line 23591 of file DCM.idl.

**8.79.1.3 typedef sequence<SMX\_Service\_t> DCM::DeviceControl::SMX\_ServiceList**

Definition at line 23494 of file DCM.idl.

**8.79.1.4 typedef sequence<SMX\_StatMuxPool> DCM::DeviceControl::SMX\_StatMuxPoolList**

Definition at line 23376 of file DCM.idl.

**8.79.1.5 typedef sequence<SMX\_StatMuxPool\_V2> DCM::DeviceControl::SMX\_StatMuxPoolList\_V2**

Definition at line 23396 of file DCM.idl.

**8.79.2 Enumeration Type Documentation****8.79.2.1 enum DCM::DeviceControl::BackupType**

Enumerator:

*BT\_Main*  
*BT\_Backup*

Definition at line 23520 of file DCM.idl.

**8.79.2.2 enum DCM::DeviceControl::ContentMode**

Enumerator:

*CM\_AVC\_MPEG2\_Combined*  
*CM\_MPEG2*

Definition at line 23360 of file DCM.idl.

**8.79.2.3 enum DCM::DeviceControl::EncoderState**

Enumerator:

*ES\_OK*  
*ES\_Disconnected*

Definition at line 23423 of file DCM.idl.

**8.79.2.4 enum DCM::DeviceControl::EncoderType**

Enumerator:

*ET\_MPEG2*  
*ET\_AVC*

Definition at line 23449 of file DCM.idl.

**8.79.2.5 enum DCM::DeviceControl::FrameRateCodes**

Enumerator:

*FRAME\_RATE\_CODE\_23\_HZ*  
*FRAME\_RATE\_CODE\_24\_HZ*  
*FRAME\_RATE\_CODE\_25\_HZ*  
*FRAME\_RATE\_CODE\_29\_HZ*  
*FRAME\_RATE\_CODE\_30\_HZ*  
*FRAME\_RATE\_CODE\_50\_HZ*  
*FRAME\_RATE\_CODE\_59\_HZ*  
*FRAME\_RATE\_CODE\_60\_HZ*

Definition at line 23429 of file DCM.idl.

**8.79.2.6 enum DCM::DeviceControl::SMX\_EnablingMode\_e**

Enumerator:

*SMX\_StatmuxDisabled*  
*SMX\_StatmuxEnabled*  
*SMX\_D9036StatmuxEnabled*

Definition at line 23562 of file DCM.idl.

**8.79.2.7 enum DCM::DeviceControl::StatMuxMode**

Enumerator:

*SMM\_Async*  
*SMM\_Sync*  
*SMM\_Off*

Definition at line 23353 of file DCM.idl.

**8.79.2.8 enum DCM::DeviceControl::VideoFormats**

Enumerator:

*MQF\_VF\_SD*  
*MQF\_VF\_HD1080I*  
*MQF\_VF\_HD720P*  
*MQF\_VF\_HDP3*

Definition at line 23441 of file DCM.idl.

**8.79.3 Function Documentation**

**8.79.3.1 BackupType** DCM::DeviceControl::SMX\_BackupType\_Get ( in unsigned short *BoardNr* )  
raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

- 8.79.3.2 void DCM::DeviceControl::SMX\_BackupType\_Set ( in unsigned short *BoardNr*, in BackupType *Type* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.3 string DCM::DeviceControl::SMX\_BoardSetup\_Get ( in unsigned short *BoardNr* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.4 void DCM::DeviceControl::SMX\_BoardSetup\_Set ( in unsigned short *BoardNr*, in string *MulticastIP* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.5 void DCM::DeviceControl::SMX\_EncoderBlackList\_AddL ( in unsigned short *BoardNr*, in IP\_List\_t *EncoderList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.6 void DCM::DeviceControl::SMX\_EncoderBlackList\_DeleteL ( in unsigned short *BoardNr*, in IP\_List\_t *EncoderList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.7 IP\_List\_t DCM::DeviceControl::SMX\_EncoderBlackList\_GetL ( in unsigned short *BoardNr* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.8 SMX\_EncoderList DCM::DeviceControl::SMX\_Encoders\_GetL ( in SMX\_PoolRef\_t *PoolRef* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.9 boolean DCM::DeviceControl::SMX\_GetStatmux ( in unsigned short *BoardNr* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.10 SMX\_EnablingMode\_e DCM::DeviceControl::SMX\_GetStatmux\_V2 ( in unsigned short *BoardNr* ) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX\\_GetStatmux](#)(in unsigned short *BoardNr*) Get the statmux enabling mode.

#### Note

Older version this was a boolean 0=statmux disabled 1=statmux enabled (D9032 statmux).

#### Version

release 8.9

- 8.79.3.11 void DCM::DeviceControl::SMX\_GetStatmuxPoolBitrates ( in SMX\_PoolRef\_t *PoolRef*, out SMX\_EncVideoBitRateList *EncBitRatesList*, out BitRateSampleList\_t *NullRateList* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.12 SMX\_ServiceList DCM::DeviceControl::SMX\_Service\_GetL ( in SMX\_PoolRef\_t *PoolRef* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.13 void DCM::DeviceControl::SMX\_SetStatmux ( in unsigned short *BoardNr*, in boolean *Enabled* ) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.14 void DCM::DeviceControl::SMX\_SetStatmux\_V2 ( in unsigned short *BoardNr*, in SMX\_EnablingMode\_e *EnableMode* ) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX\\_SetStatmux](#)(in unsigned short *BoardNr*, in SMX\_EnablingMode\_e *EnableMode*) Sets the statmux enabling mode.

**Note**

Older version this was a boolean 0=statmux disabled 1=statmux enabled (D9032 statmux).

**Version**

release 8.9

- 8.79.3.15 **SMX\_StatMuxPoolList** DCM::DeviceControl::SMX\_StatMuxPools\_GetL ( in SMX\_PoolRef\_t *PoolRef* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.16 **SMX\_StatMuxPoolList\_V2** DCM::DeviceControl::SMX\_StatMuxPools\_GetL\_V2 ( in SMX\_PoolRef\_t *PoolRef* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.17 void DCM::DeviceControl::SMX\_StatMuxPools\_SetL ( in unsigned short *BoardNr*, in SMX\_StatMuxPoolList *PoolList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- 8.79.3.18 void DCM::DeviceControl::SMX\_StatMuxPools\_SetL\_V2 ( in unsigned short *BoardNr*, in SMX\_StatMuxPoolList\_V2 *PoolList* ) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

## 9 Namespace Documentation

### 9.1 DCM Namespace Reference

#### Classes

- interface [DeviceControl](#)  
*The only interface of DCM to the outside world.*
- interface [DeviceCallback](#)
- interface [DCM\\_Notifications](#)  
*Description of all external notifications.*

#### Variables

- const unsigned short [MAX\\_ACTIVE\\_OUTPUT\\_TS\\_PER\\_BOARD](#) = 500  
*DEFINES:*
- const unsigned short [MAX\\_ACTIVE\\_OUTPUT\\_TS\\_PER\\_PORT](#) = 250  
*Active streaming.*
- const unsigned short [MAX\\_OUTPUT\\_TS\\_PER\\_BOARD](#) = 2000  
*Active streaming.*

#### 9.1.1 Variable Documentation

##### 9.1.1.1 const unsigned short DCM::MAX\_ACTIVE\_OUTPUT\_TS\_PER\_BOARD = 500

DEFINES:

- Maximum number of supported TSs/ IO board is 500.
- Maximum number of supported TSs/GBE output port is 250.
- Maximum number of supported TSs/GBE input port is 500.
- It is possible to create 2000 TSs on a board respectively on a port but only 500 or 250 can be 'active streaming'
- Maximum string length without terminating 0.
- BoardNr = 0 is Main board
- The number of board locations a device has depends on the chassis type. For [DCM](#) 2RU MkI chassis: 4 For [DCM](#) 1RU chassis: 2 For [DCM](#) 2RU MkII chassis: 8 Unless otherwise stated, board numbers range from 1 to the number of board locations.

Definition at line 52 of file DCM.idl.

##### 9.1.1.2 const unsigned short DCM::MAX\_ACTIVE\_OUTPUT\_TS\_PER\_PORT = 250

Active streaming.

Definition at line 53 of file DCM.idl.

### 9.1.1.3 `const unsigned short DCM::MAX_OUTPUT_TS_PER_BOARD = 2000`

Active streaming.

Definition at line 54 of file DCM.idl.

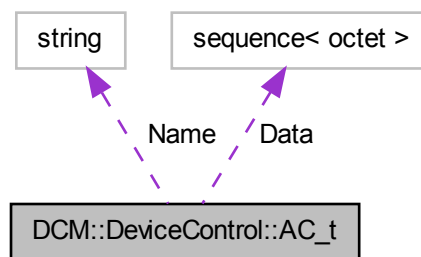
## 10 Class Documentation

### 10.1 `DCM::DeviceControl::AC_t` Struct Reference

Access Criteria.

```
import "DCM.idl";
```

Collaboration diagram for `DCM::DeviceControl::AC_t`:



#### Public Attributes

- `string` [Name](#)  
*name of AC (extension to Simulcrypt protocol)*
- `ByteStream` [Data](#)  
*buffer for AC data (a sequence of chars)*

#### 10.1.1 Detailed Description

Access Criteria.

Definition at line 27632 of file DCM.idl.

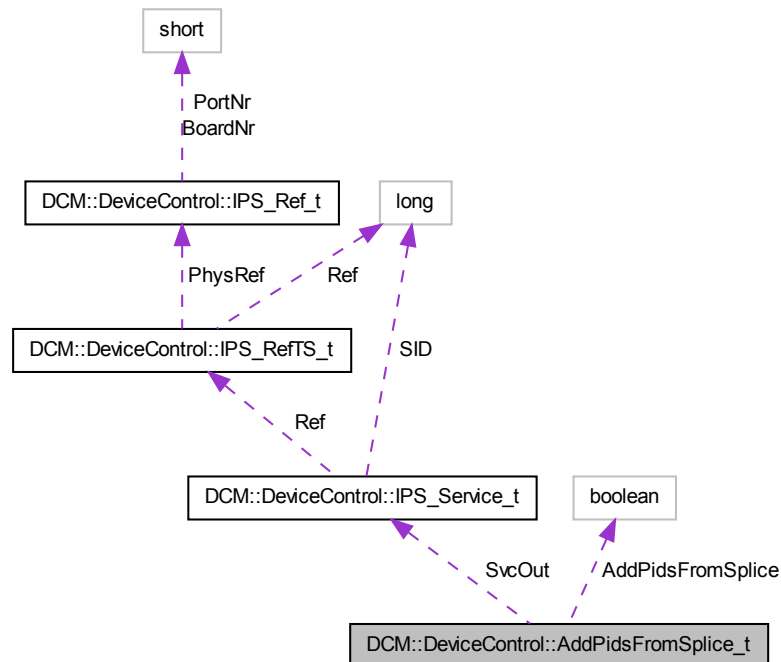
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.2 `DCM::DeviceControl::AddPidsFromSplice_t` Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::AddPidsFromSplice\_t:



#### Public Attributes

- [IPS\\_Service\\_t SvcOut](#)
- [boolean AddPidsFromSplice](#)

#### 10.2.1 Detailed Description

Definition at line 17680 of file DCM.idl.

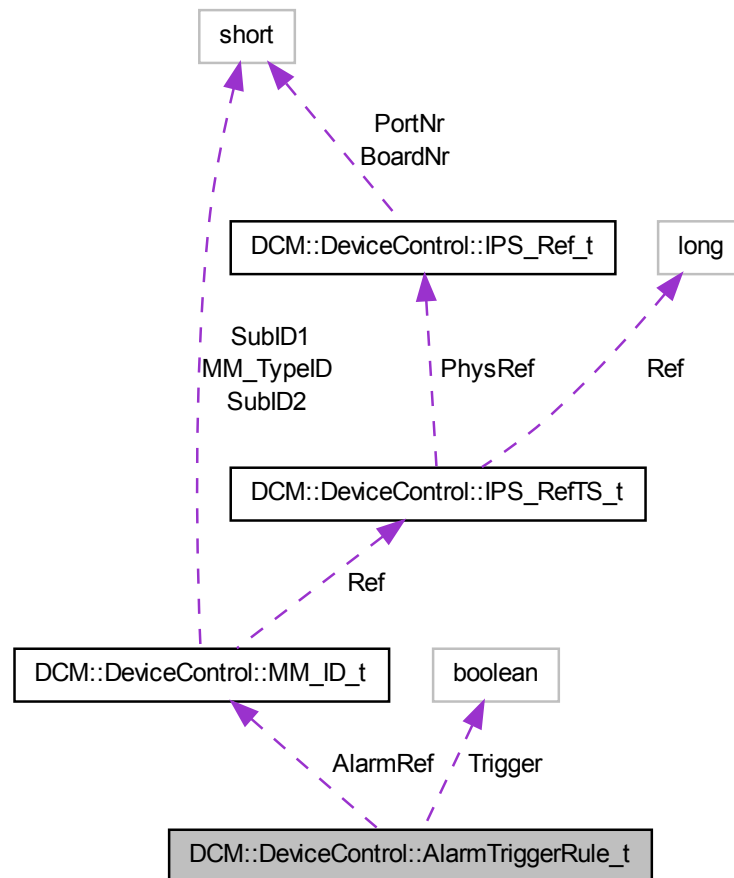
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.3 DCM::DeviceControl::AlarmTriggerRule\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::AlarmTriggerRule\_t:



#### Public Attributes

- [MM\\_ID\\_t AlarmRef](#)
- boolean [Trigger](#)

#### 10.3.1 Detailed Description

Definition at line 21405 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

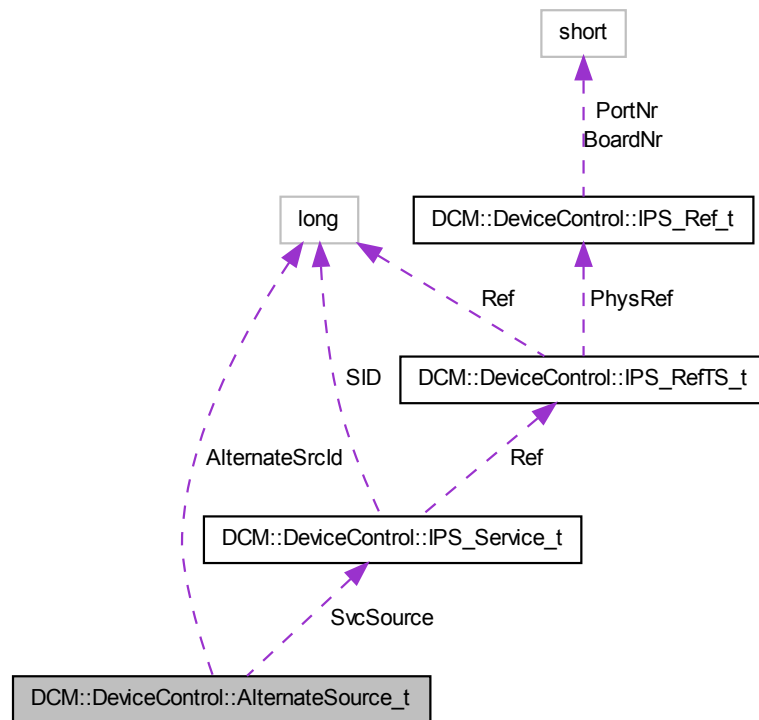


## 10.4 DCM::DeviceControl::AlternateSource\_t Struct Reference

A definition of an alternate source.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::AlternateSource\_t:



### Public Attributes

- [IPS\\_Service\\_t SvcSource](#)
- [AlternateSrcId\\_t AlternateSrcId](#)  
*the ID of this alternate source (read-only)*

### 10.4.1 Detailed Description

A definition of an alternate source.

Definition at line 17722 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

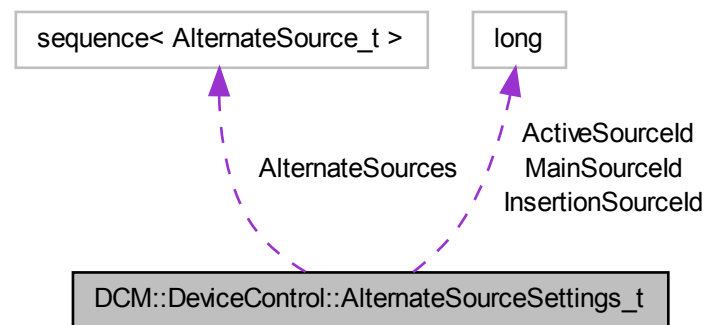
- [DCM.idl](#)

## 10.5 DCM::DeviceControl::AlternateSourceSettings\_t Struct Reference

All the settings concerning alternate sources for one output service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::AlternateSourceSettings\_t:



### Public Attributes

- [AlternateSourceList\\_t AlternateSources](#)  
*A list of all the alternate sources.*
- [AlternateSrcId\\_t MainSourceId](#)  
*the ID of the main source (this is initially the original source) (read-only)*
- [AlternateSrcId\\_t ActiveSourceId](#)  
*the ID of the currently active source (read-only)*
- [AlternateSrcId\\_t InsertionSourceId](#)  
*The ID of the insertion source (0xFFFFFFFF if none is present) (read-only)*

### 10.5.1 Detailed Description

All the settings concerning alternate sources for one output service.

Definition at line 17731 of file DCM.idl.

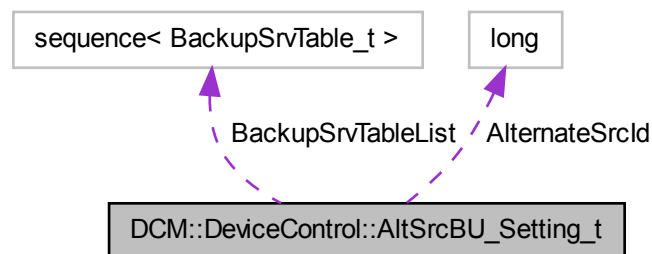
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.6 DCM::DeviceControl::AltSrcBU\_Setting\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::AltSrcBU\_Setting\_t:



#### Public Attributes

- [AlternateSrcId\\_t AlternateSrcId](#)
- [BackupSrvTableList\\_t BackupSrvTableList](#)

#### 10.6.1 Detailed Description

Definition at line 23203 of file DCM.idl.

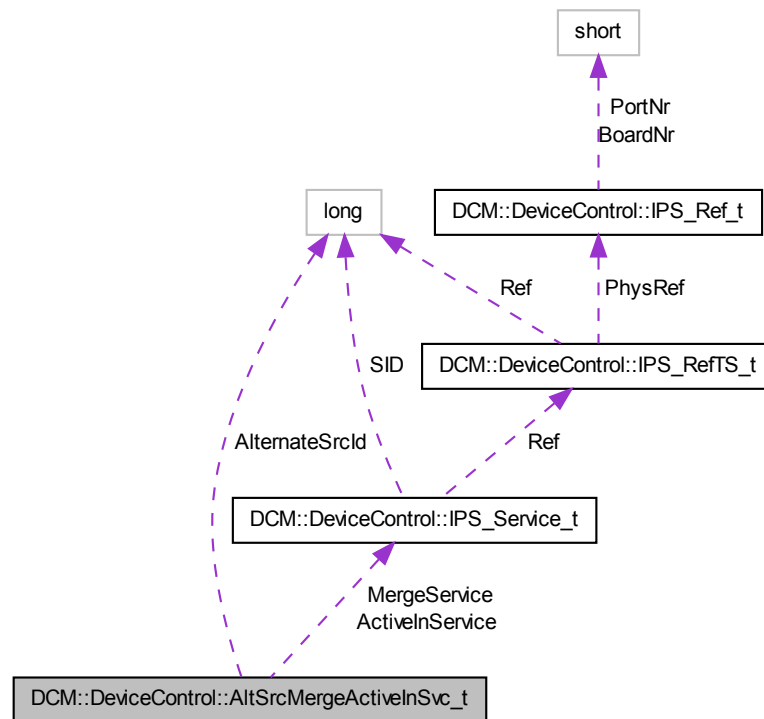
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.7 DCM::DeviceControl::AltSrcMergeActiveInSvc\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::AltSrcMergeActiveInSvc\_t:



### Public Attributes

- [AlternateSrcId\\_t AlternateSrcId](#)  
*The id of the alternate svc where the merge svc is located.*
- [IPS\\_Service\\_t MergeService](#)  
*The Merge Svc on which the Backup Svc is located.*
- [IPS\\_Service\\_t ActiveInService](#)  
*The Backup Svc that is (get) or should be (set) activated.*

#### 10.7.1 Detailed Description

Definition at line 23246 of file DCM.idl.

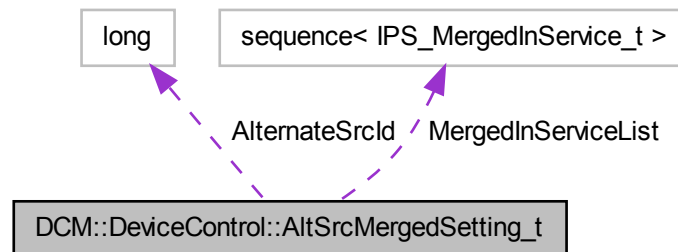
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.8 DCM::DeviceControl::AltSrcMergedSetting\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::AltSrcMergedSetting\_t:



#### Public Attributes

- [AlternateSrcId\\_t AlternateSrcId](#)
- [IPS\\_MergedInServiceList\\_t MergedInServiceList](#)

#### 10.8.1 Detailed Description

Definition at line 5264 of file `DCM.idl`.

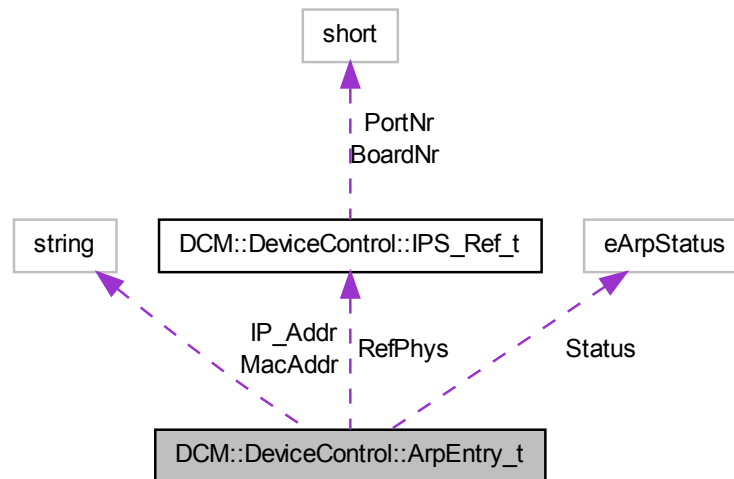
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.9 DCM::DeviceControl::ArpEntry\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ArpEntry\_t:



#### Public Attributes

- string [IP\\_Addr](#)  
*e.g. "10.11.52.101"*
- string [MacAddr](#)  
*e.g. "00:00:c4:25:31:12"*
- [eArpStatus](#) [Status](#)
- [IPS\\_Ref\\_t](#) [RefPhys](#)

#### 10.9.1 Detailed Description

Definition at line 18599 of file DCM.idl.

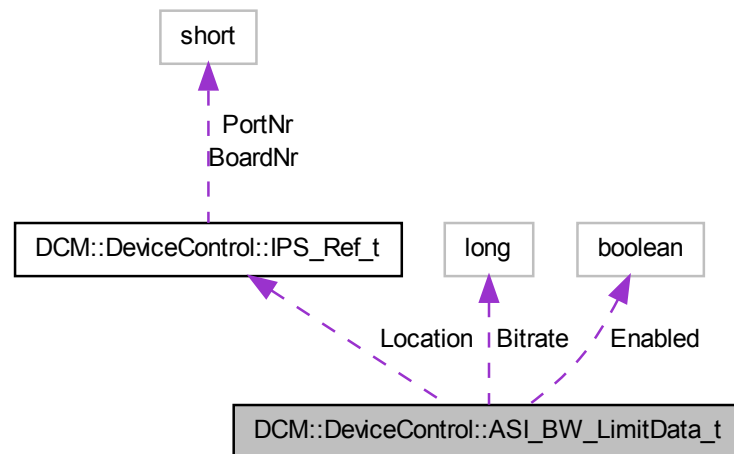
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.10 DCM::DeviceControl::ASI\_BW\_LimitData\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_BW\_LimitData\_t:



#### Public Attributes

- [IPS\\_Ref\\_t](#) Location
- boolean [Enabled](#)
- unsigned long [Bitrate](#)

#### 10.10.1 Detailed Description

Definition at line 6954 of file DCM.idl.

The documentation for this struct was generated from the following file:

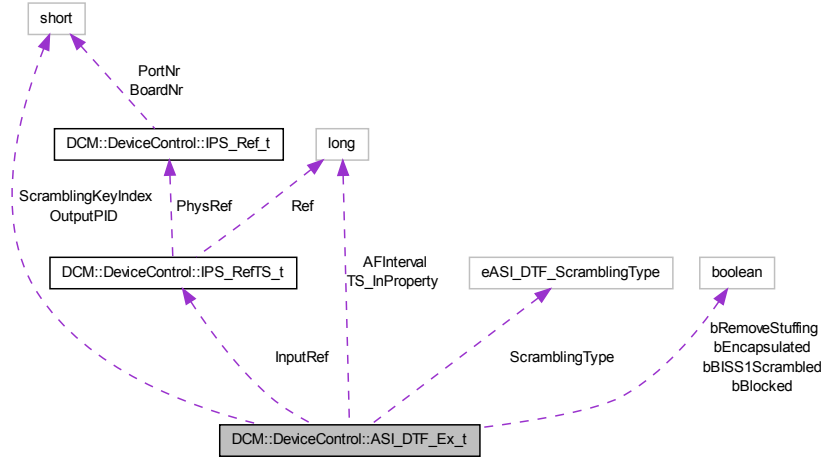
- [DCM.idl](#)

### 10.11 DCM::DeviceControl::ASI\_DTF\_Ex\_t Struct Reference

Structure holding DTF input settings. The difference with the [ASI\\_DTF\\_t](#) structure is that this structure here doesn't hold the scrambling key directly. Instead, it holds a reference to a key in the list that can be set up using the [ASI\\_DTF\\_SetKeyList](#) method. Also the scrambling type can be selected to be odd or even.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_DTF\_Ex\_t:



## Public Attributes

- [IPS\\_RefTS\\_t](#) [InputRef](#)  
*The reference to the DTF input stream.*
- boolean [bBlocked](#)  
*True means input not used, false means input passed.*
- boolean [bEncapsulated](#)  
*True means output encapsulated in ghost PID, false means passed.*
- boolean [bRemoveStuffing](#)  
*If true and bEncapsulated is false, then the original stuffing packets are removed.*
- unsigned short [OutputPID](#)  
*Ghost PID for encapsulating this input stream.*
- unsigned long [AFInterval](#)  
*The interval between two adaptation fields, in ms.*
- unsigned long [TS\\_InProperty](#)  
*Property bitmap: bit[0] indicates scrambling status (1 = OK)*
- boolean [bBIS1Scrambled](#)  
*True means this stream will be scrambled while encapsulating.*
- unsigned short [ScramblingKeyIndex](#)  
*Index into the scrambling key list, should be less than 1024, used when not overridden by the global default.*
- [eASI\\_DTF\\_ScramblingType](#) [ScramblingType](#)  
*Input level scrambling type setting, used when not overridden by the global type.*

### 10.11.1 Detailed Description

Structure holding DTF input settings. The difference with the [ASI\\_DTF\\_t](#) structure is that this structure here doesn't hold the scrambling key directly. Instead, it holds a reference to a key in the list that can be set up using the [ASI\\_DTF\\_SetKeyList](#) method. Also the scrambling type can be selected to be odd or even.



Definition at line 21999 of file DCM.idl.

The documentation for this struct was generated from the following file:

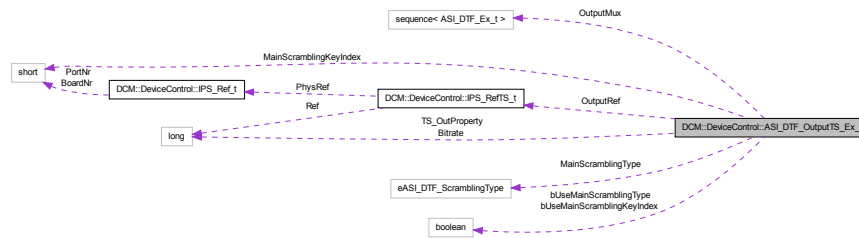
- [DCM.idl](#)

## 10.12 DCM::DeviceControl::ASI\_DTF\_OutputTS\_Ex\_t Struct Reference

Structure holding DTF output settings. The difference with the [ASI\\_DTF\\_OutputTS\\_t](#) is that this structure here provides for scrambling type, scrambling key indices and the possibility to overrule the input-level settings by one global setting.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_DTF\_OutputTS\_Ex\_t:



### Public Attributes

- [IPS\\_RefTS\\_t](#) [OutputRef](#)  
The reference to the DTF output stream, currently only stream 9 on port 9 is supported.
- unsigned long [Bitrate](#)  
The outgoing bitrate of the DTF output in bps.
- unsigned long [TS\\_OutProperty](#)  
Property bitmap.
- boolean [bUseMainScramblingKeyIndex](#)  
True to use the main scrambling key index for all inputs, false to use individual input key indices.
- unsigned short [MainScramblingKeyIndex](#)  
Main index into the scrambling key list.
- boolean [bUseMainScramblingType](#)  
True to use the main scrambling type for all inputs, false to use individual input types.
- [eASI\\_DTF\\_ScramblingType](#) [MainScramblingType](#)  
Main scrambling type.
- [ASI\\_DTF\\_ListEx\\_t](#) [OutputMux](#)  
List of input settings.

### 10.12.1 Detailed Description

Structure holding DTF output settings. The difference with the [ASI\\_DTF\\_OutputTS\\_t](#) is that this structure here provides for scrambling type, scrambling key indices and the possibility to overrule the input-level settings by one global setting.

Definition at line 22044 of file DCM.idl.

The documentation for this struct was generated from the following file:

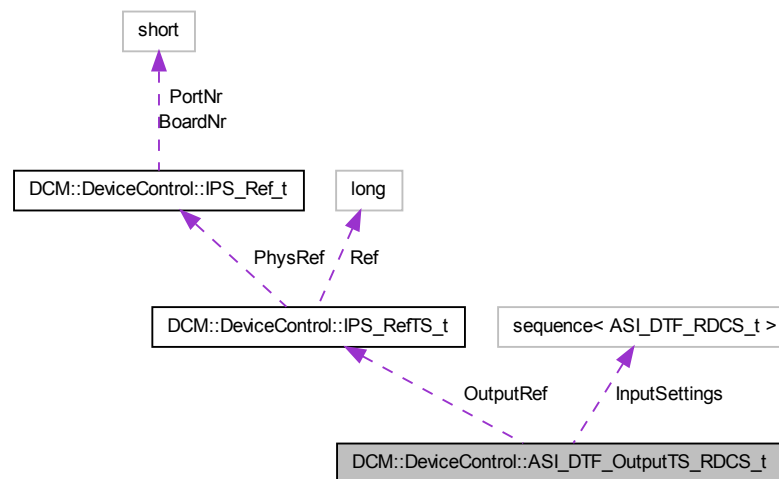
- [DCM.idl](#)

## 10.13 DCM::DeviceControl::ASI\_DTF\_OutputTS\_RDCS\_t Struct Reference

Structure holding DTF RDCS output settings. From V9.0 onwards.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_DTF\_OutputTS\_RDCS\_t:



### Public Attributes

- [IPS\\_RefTS\\_t OutputRef](#)  
*The reference to the DTF output stream, currently only stream 9 on port 9 is supported.*
- [ASI\\_DTF\\_RDCS\\_List\\_t InputSettings](#)  
*List of DTF RDCS input settings.*

### 10.13.1 Detailed Description

Structure holding DTF RDCS output settings. From V9.0 onwards.

Definition at line 22057 of file DCM.idl.

The documentation for this struct was generated from the following file:

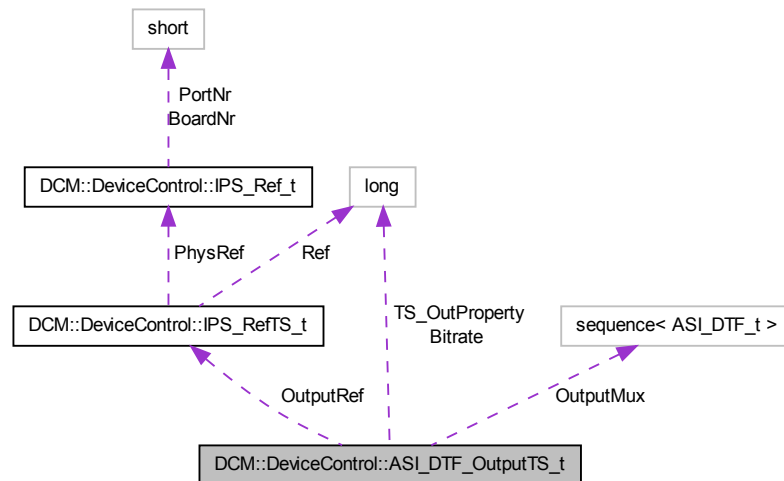
- [DCM.idl](#)

## 10.14 DCM::DeviceControl::ASI\_DTF\_OutputTS\_t Struct Reference

Structure holding DTF output settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_DTF\_OutputTS\_t:



### Public Attributes

- [IPS\\_RefTS\\_t OutputRef](#)  
*The reference to the DTF output stream, currently only stream 9 on port 9 is supported.*
- unsigned long [Bitrate](#)  
*The outgoing bitrate of the DTF output in bps.*
- unsigned long [TS\\_OutProperty](#)  
*Property bitmap.*
- [ASI\\_DTF\\_List\\_t OutputMux](#)  
*List of input settings.*

### 10.14.1 Detailed Description

Structure holding DTF output settings.

**Deprecated** Obsoleted by [ASI\\_DTF\\_OutputTS\\_Ex\\_t](#) from release 6.0

Definition at line 22032 of file DCM.idl.

The documentation for this struct was generated from the following file:

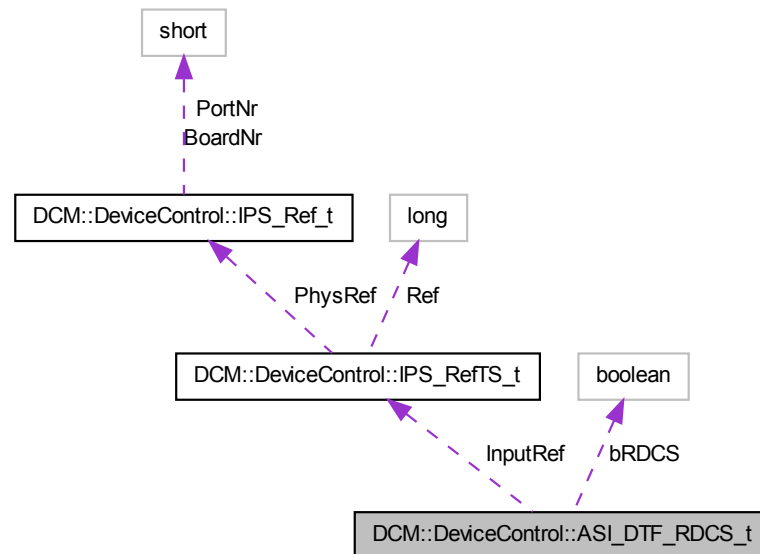
- [DCM.idl](#)

## 10.15 DCM::DeviceControl::ASI\_DTF\_RDCS\_t Struct Reference

Structure holding DTF RDCS input settings. From V9.0 onwards.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_DTF\_RDCS\_t:



### Public Attributes

- [IPS\\_RefTS\\_t InputRef](#)  
*The reference to the DTF input stream.*
- boolean [bRDCS](#)  
*True means stream consists of a Remultiplexer Data and Control Stream.*

### 10.15.1 Detailed Description

Structure holding DTF RDCS input settings. From V9.0 onwards.

Definition at line 22014 of file DCM.idl.

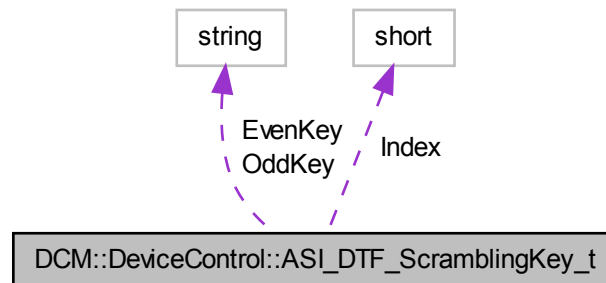
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.16 DCM::DeviceControl::ASI\_DTF\_ScramblingKey\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_DTF\_ScramblingKey\_t:



#### Public Attributes

- unsigned short [Index](#)  
*Index in the array of keys, should be <1024.*
- string [OddKey](#)  
*Hex encoded scrambling key for use with odd scrambling, a valid key is exactly 12 characters long.*
- string [EvenKey](#)  
*Hex encoded scrambling key for use with even scrambling, a valid key is exactly 12 characters long.*

#### 10.16.1 Detailed Description

Definition at line 22077 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

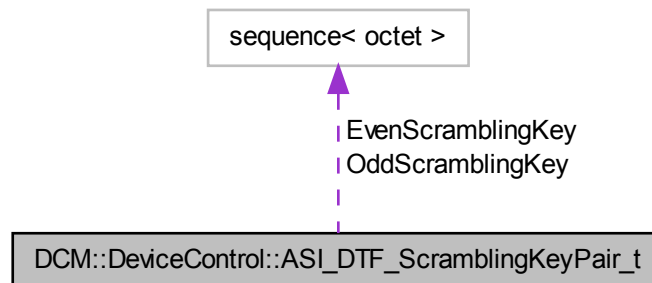
- [DCM.idl](#)

## 10.17 DCM::DeviceControl::ASI\_DTF\_ScramblingKeyPair\_t Struct Reference

Structure holding DTF scrambling keys.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_DTF\_ScramblingKeyPair\_t:



#### Public Attributes

- [ByteStream OddScramblingKey](#)  
*Scrambling key for use with odd scrambling, should be exactly 6 bytes long.*
- [ByteStream EvenScramblingKey](#)  
*Scrambling key for use with even scrambling, should be exactly 6 bytes long.*

#### 10.17.1 Detailed Description

Structure holding DTF scrambling keys.

**Deprecated** Obsoleted in release 6.0

Definition at line 22065 of file DCM.idl.

The documentation for this struct was generated from the following file:

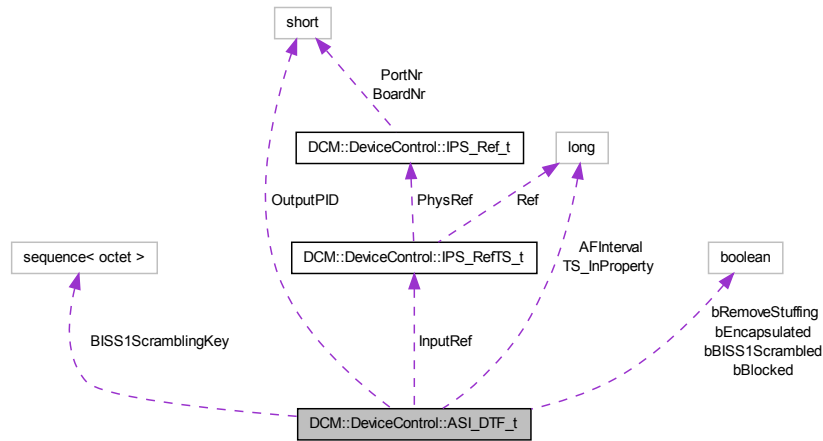
- [DCM.idl](#)

### 10.18 DCM::DeviceControl::ASI\_DTF\_t Struct Reference

Structure holding DTF input settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_DTF\_t:



### Public Attributes

- [IPS\\_RefTS\\_t InputRef](#)  
*The reference to the DTF input stream.*
- boolean [bBlocked](#)  
*true means input not used, false means input passed*
- boolean [bEncapsulated](#)  
*true means output encapsulated in ghost PID, false means passed*
- boolean [bRemoveStuffing](#)  
*if true and bEncapsulated is false, then the original stuffing packets are removed*
- unsigned short [OutputPID](#)  
*Ghost PID for encapsulating this input stream.*
- unsigned long [AFInterval](#)  
*The interval between two adaptation fields, in ms.*
- unsigned long [TS\\_InProperty](#)  
*Property bitmap.*
- boolean [bBISS1Scrambled](#)  
*true means this stream will be scrambled while encapsulating*
- [ByteStream BISS1ScramblingKey](#)  
*scrambling key should be 6 bytes long (scrambling is always even)*

#### 10.18.1 Detailed Description

Structure holding DTF input settings.

**Deprecated** Obsoleted by [ASI\\_DTF\\_Ex\\_t](#) from release 6.0

Definition at line 21981 of file DCM.idl.

The documentation for this struct was generated from the following file:

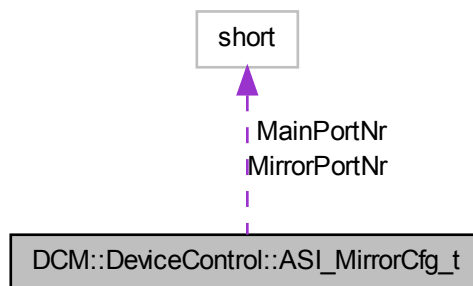
- [DCM.idl](#)

## 10.19 DCM::DeviceControl::ASI\_MirrorCfg\_t Struct Reference

Structure to define port mirroring for ASI.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_MirrorCfg\_t:



### Public Attributes

- unsigned short [MirrorPortNr](#)  
*Output port to where the data is mirrored.*
- unsigned short [MainPortNr](#)  
*Mirror source port from where content is routed.*

### 10.19.1 Detailed Description

Structure to define port mirroring for ASI.

- The content of an ASI input port can be transparently looped to a specified output port (mirror port)
- The content of an ASI output port can be duplicated to a specified output port

Definition at line 6650 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

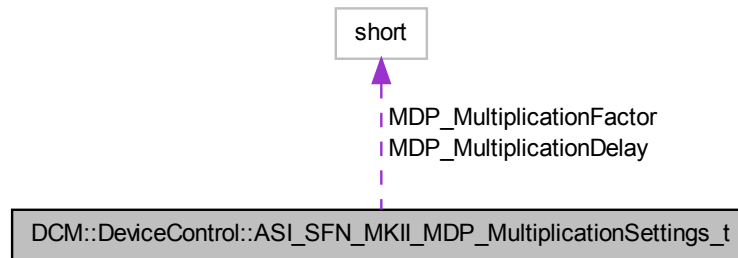


## 10.20 DCM::DeviceControl::ASI\_SF\_N\_MKII\_MDP\_MultiplicationSettings\_t Struct Reference 1276

### 10.20 DCM::DeviceControl::ASI\_SF\_N\_MKII\_MDP\_MultiplicationSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_SF\_N\_MKII\_MDP\_MultiplicationSettings\_t:



#### Public Attributes

- unsigned short [MDP\\_MultiplicationFactor](#)  
*Range 1..4, in steps of 1.*
- unsigned short [MDP\\_MultiplicationDelay](#)  
*Range 1--100 ms, in steps of 1.*

#### 10.20.1 Detailed Description

Definition at line 29528 of file DCM.idl.

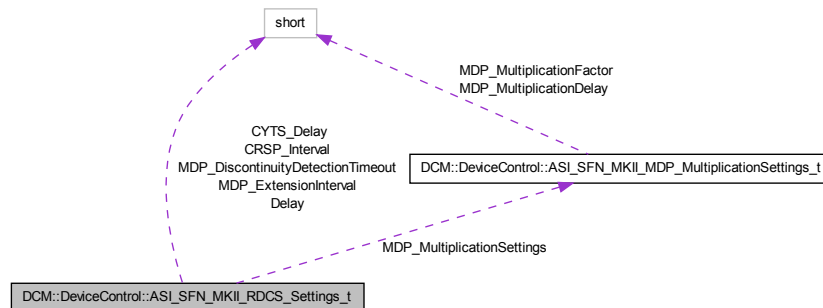
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.21 DCM::DeviceControl::ASI\_SF\_N\_MKII\_RDCS\_Settings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_SF\_N\_MKII\_RDCS\_Settings\_t:



### Public Attributes

- unsigned short [Delay](#)  
*Range 10--100 ms, in steps of 1.*
- unsigned short [MDP\\_ExtensionInterval](#)  
*Range 10--1000 ms, in steps of 1.*
- unsigned short [MDP\\_DiscontinuityDetectionTimeout](#)  
*Range 10--1000 ms, in steps of 1.*
- [ASI\\_SF\\_N\\_MKII\\_MDP\\_MultiplicationSettings\\_t](#) [MDP\\_MultiplicationSettings](#)
- unsigned short [CRSP\\_Interval](#)  
*Range 10--1000 ms, in steps of 1.*
- unsigned short [CYTS\\_Delay](#)  
*Range 5--100 ms, in steps of 1.*

#### 10.21.1 Detailed Description

Definition at line 29534 of file DCM.idl.

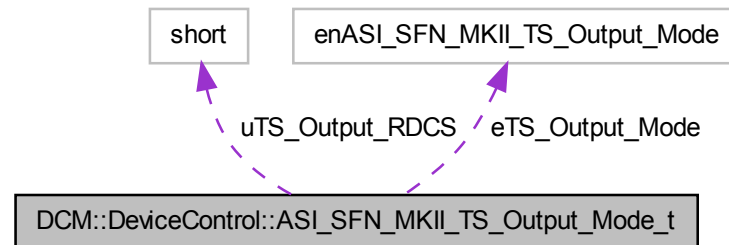
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.22 DCM::DeviceControl::ASI\_SF\_N\_MKII\_TS\_Output\_Mode\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ASI\_SF\_N\_MKII\_TS\_Output\_Mode\_t:



#### Public Attributes

- [enASI\\_SF\\_N\\_MKII\\_TS\\_Output\\_Mode eTS\\_Output\\_Mode](#)  
*Type of TS.*
- unsigned short [uTS\\_Output\\_RDCS](#)  
*RDCS TS number if eTS\_Output\_Mode is eTS\_Output\_Main and RDCS < Range 0..7, in steps of 1.*

#### 10.22.1 Detailed Description

Definition at line 29544 of file DCM.idl.

The documentation for this struct was generated from the following file:

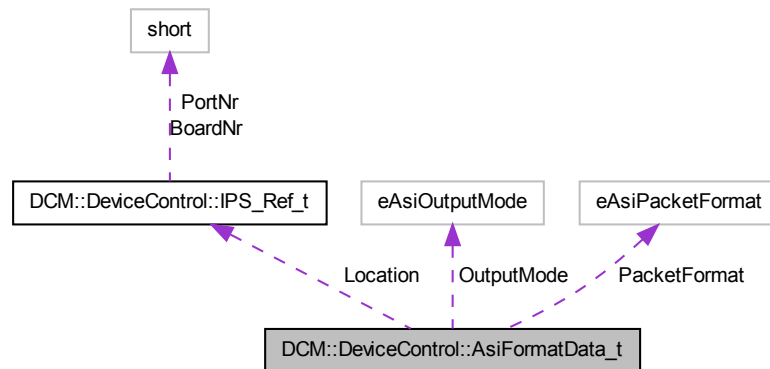
- [DCM.idl](#)

### 10.23 DCM::DeviceControl::AsiFormatData\_t Struct Reference

Structure to set ASI format and output mode.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::AsiFormatData\_t:



#### Public Attributes

- [IPS\\_Ref\\_t Location](#)
- [eAsiPacketFormat PacketFormat](#)
- [eAsiOutputMode OutputMode](#)

#### 10.23.1 Detailed Description

Structure to set ASI format and output mode.

Definition at line 6637 of file DCM.idl.

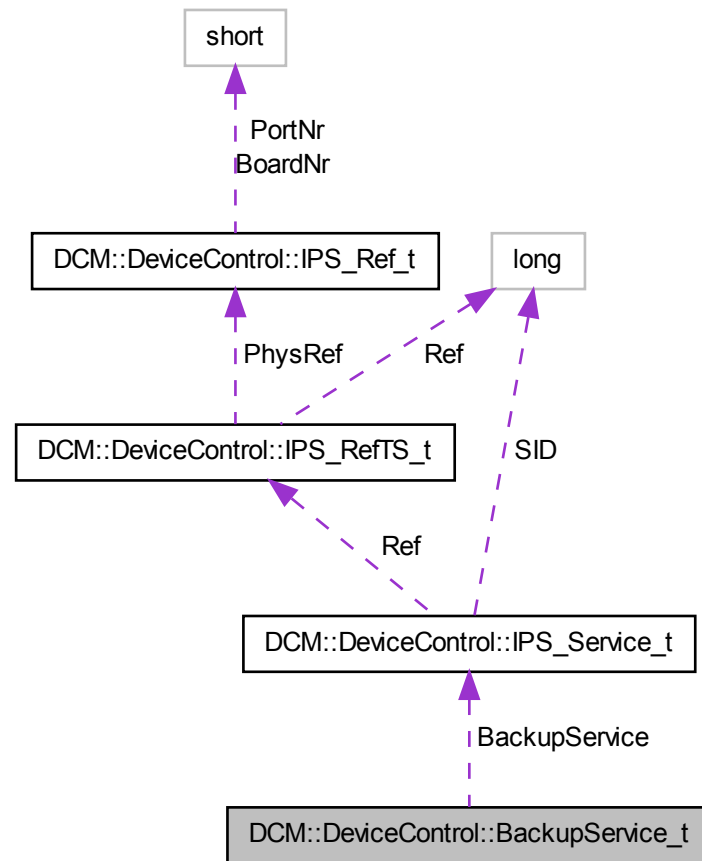
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.24 DCM::DeviceControl::BackupService\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BackupService\_t:



#### Public Attributes

- [IPS\\_Service\\_t BackupService](#)  
*specifies BoardNr, PortNr, TS and output SID*

#### 10.24.1 Detailed Description

Definition at line 23047 of file DCM.idl.

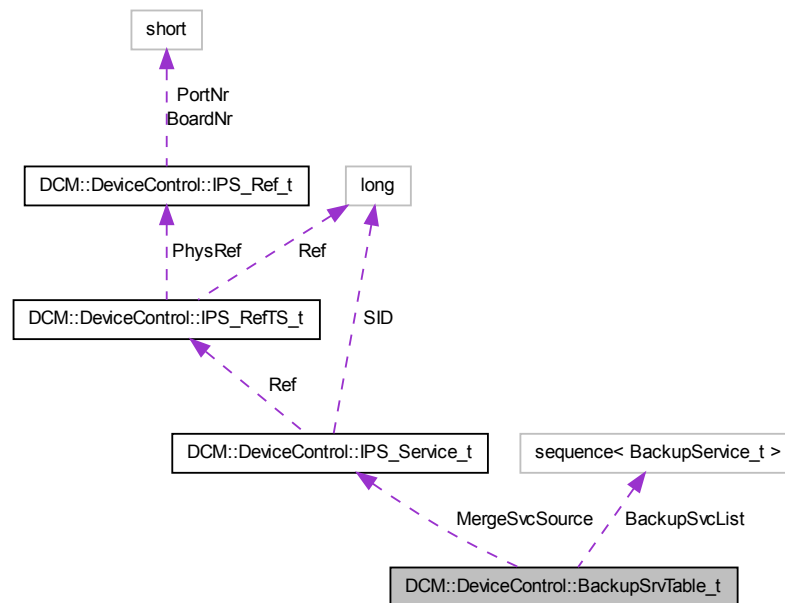
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.25 DCM::DeviceControl::BackupSrvTable\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BackupSrvTable\_t:



## Public Attributes

- [IPS\\_Service\\_t MergeSvcSource](#)  
*specifies BoardNr, PortNr, TS and input SID of merged service < (main or merged in service)*
- [BackupServiceList\\_t BackupSvcList](#)  
*specifies list of BoardNr, PortNr, TS and input SID < for backup service*

## 10.25.1 Detailed Description

Definition at line 23053 of file DCM.idl.

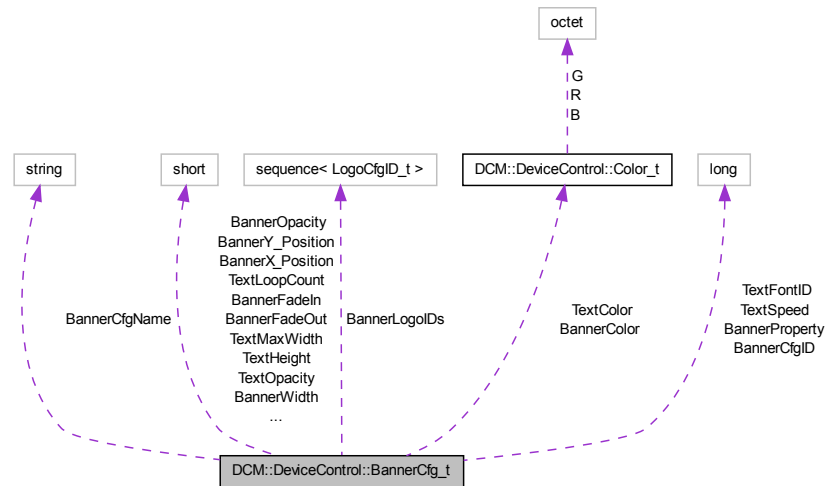
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.26 DCM::DeviceControl::BannerCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BannerCfg\_t:



## Public Attributes

- [BannerCfgID\\_t BannerCfgID](#)  
*unique banner configuration identifier BannerCfgID 0 will be the default banner, it will always exist and is undeletable.*
- [string BannerCfgName](#)  
*Banner configuration name, maximum 64 characters.*
- [Color\\_t BannerColor](#)  
*Only applicable for creating a solid colored banner.*
- [unsigned short BannerOpacity](#)  
*10 \* opacity in % (e.g. OpacityX10 = 11 means an opacity of 1.1%), < 100% opaque means not transparent at all.*
- [unsigned short BannerWidth](#)  
*In pixels.*
- [unsigned short BannerHeight](#)  
*In pixels.*
- [unsigned short BannerX\\_Position](#)  
*In pixels, upper left hand corner is (x,y) = (0,0).*
- [unsigned short BannerY\\_Position](#)  
*In pixels.*
- [unsigned short BannerFadeIn](#)  
*in frames, max 300 frames, 0 is instant display*
- [unsigned short BannerFadeOut](#)  
*in frames, max 300 frames, 0 is instant removal*
- [LogoCfgID\\_List\\_t BannerLogoIDs](#)  
*Logos to display along with the banner.*
- [FontCfgID\\_t TextFontID](#)

*The font ID to be used.*

- [Color\\_t TextColor](#)

*Text color.*

- unsigned short [TextOpacity](#)

*10 \* opacity in % (e.g. OpacityX10 = 11 means an opacity of 1.1%), < 100% opaque means not transparent at all.*

- unsigned short [TextHeight](#)

*In pixels. Must be smaller or equal to BannerHeight.*

- unsigned short [TextMaxWidth](#)

*In pixels. Must be smaller or equal to BannerWidth.*

- unsigned short [TextLoopCount](#)

*Number of times an banner should be displayed: loop count of 0 means animation is played continously, loop count of 3 means animation is played three times.*

- long [TextSpeed](#)

*Scrolling speed of the text in pixels/frame. Positive values scroll < from right to left, negative values from left to right.*

- unsigned long [BannerProperty](#)

*Read only Bitmap.*

### 10.26.1 Detailed Description

Definition at line 13881 of file DCM.idl.

The documentation for this struct was generated from the following file:

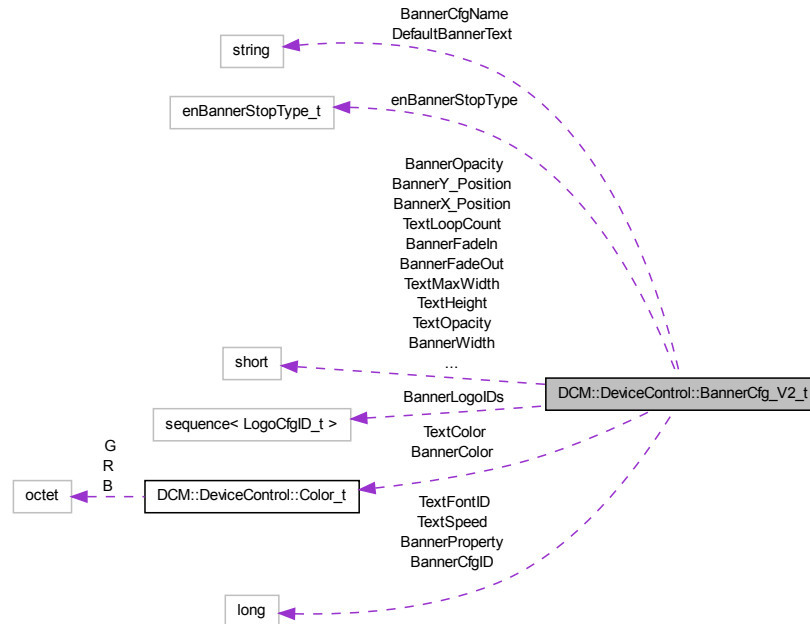
- [DCM.idl](#)

## 10.27 DCM::DeviceControl::BannerCfg\_V2\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::BannerCfg\_V2\_t:



### Public Attributes

- [BannerCfgID\\_t BannerCfgID](#)  
*unique banner configuration identifier BannerCfgID 0 will be the default banner, it will always exist and is undeletable.*
- [string BannerCfgName](#)  
*Banner configuration name, maximum 64 characters.*
- [Color\\_t BannerColor](#)  
*Only applicable for creating a solid colored banner.*
- [unsigned short BannerOpacity](#)  
*10 \* opacity in % (e.g. OpacityX10 = 11 means an opacity of 1.1%), < 100% opaque means not transparent at all.*
- [unsigned short BannerWidth](#)  
*In pixels.*
- [unsigned short BannerHeight](#)  
*In pixels.*
- [unsigned short BannerX\\_Position](#)  
*In pixels, upper left hand corner is (x,y) = (0,0).*
- [unsigned short BannerY\\_Position](#)  
*In pixels.*
- [unsigned short BannerFadeIn](#)  
*in frames, max 300 frames, 0 is instant display*
- [unsigned short BannerFadeOut](#)

- in frames, max 300 frames, 0 is instant removal*
- [LogoCfgID\\_List\\_t BannerLogoIDs](#)
  - Logos to display along with the banner.*
- [FontCfgID\\_t TextFontID](#)
  - The font ID to be used.*
- [Color\\_t TextColor](#)
  - Text color.*
- unsigned short [TextOpacity](#)
  - 10 \* opacity in % (e.g. OpacityX10 = 11 means an opacity of 1.1%), < 100% opaque means not transparent at all.*
- unsigned short [TextHeight](#)
  - In pixels. Must be smaller or equal to BannerHeight.*
- unsigned short [TextMaxWidth](#)
  - In pixels. Must be smaller or equal to BannerWidth.*
- unsigned short [TextLoopCount](#)
  - Number of times an banner should be displayed: loop count of 0 means animation is played continously, loop count of 3 means animation is played three times.*
- long [TextSpeed](#)
  - Scrolling speed of the text in pixels/frame. Positive values scroll < from right to left, negative values from left to right.*
- unsigned long [BannerProperty](#)
  - Read only Bitmap.*
- string [DefaultBannerText](#)
  - Default banner text, encoded in UTF-8, If the text is empty (contains no characters) and the default banner text must be used, the banner is not displayed.*
- [enBannerStopType\\_t enBannerStopType](#)
  - Behaviour when the banner is stopped. From version release 9.0.*

### 10.27.1 Detailed Description

Definition at line 13943 of file DCM.idl.

The documentation for this struct was generated from the following file:

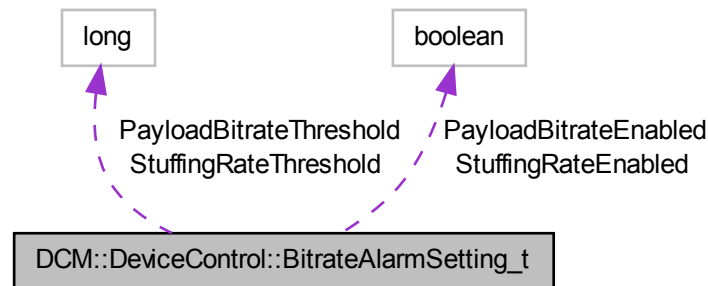
- [DCM.idl](#)

## 10.28 DCM::DeviceControl::BitrateAlarmSetting\_t Struct Reference

Structure to pass payload and stuffing bitrate threshold alarm settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BitrateAlarmSetting\_t:



### Public Attributes

- unsigned long [PayloadBitrateThreshold](#)  
*In pbs. When payload drops below this threshold, alarm will be triggered.*
- boolean [PayloadBitrateEnabled](#)  
*True means alarm monitoring is enabled for the 'Payload Bitrate Too Low' alarm.*
- unsigned long [StuffingRateThreshold](#)  
*In bps. When stuffing drops below this threshold, alarm will be triggered.*
- boolean [StuffingRateEnabled](#)  
*True means alarm monitoring is enabled for the 'Stuffing Bitrate Too Low' alarm.*

### 10.28.1 Detailed Description

Structure to pass payload and stuffing bitrate threshold alarm settings.

Definition at line 22986 of file DCM.idl.

The documentation for this struct was generated from the following file:

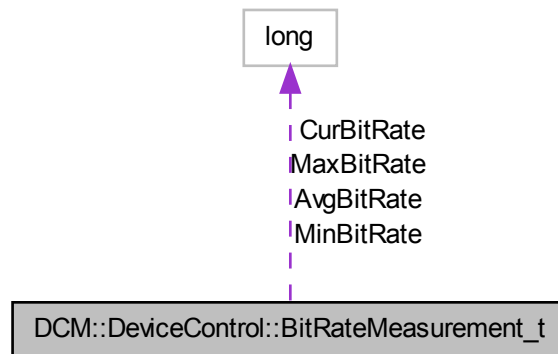
- [DCM.idl](#)

## 10.29 DCM::DeviceControl::BitRateMeasurement\_t Struct Reference

General structure to hold bitrate measurement data.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BitRateMeasurement\_t:



#### Public Attributes

- unsigned long [CurBitRate](#)  
*Current BitRate: 1 bit/s resolution - max  $2^{32}-1$ .*
- unsigned long [AvgBitRate](#)
- unsigned long [MinBitRate](#)
- unsigned long [MaxBitRate](#)

#### 10.29.1 Detailed Description

General structure to hold bitrate measurement data.

Definition at line 9779 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

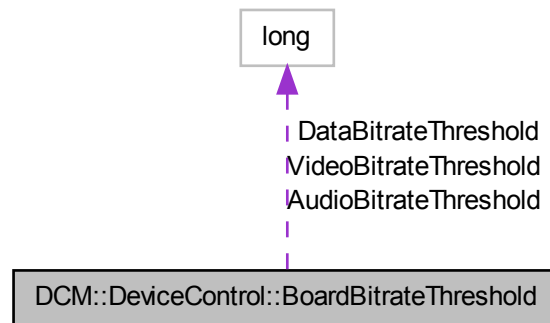
- [DCM.idl](#)

### 10.30 DCM::DeviceControl::BoardBitrateThreshold Struct Reference

The bitrate threshold for video, audio and data service losses (board specific).

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BoardBitrateThreshold:



#### Public Attributes

- unsigned long [VideoBitrateThreshold](#)  
*Bitrate threshold for video PIDs - in bps.*
- unsigned long [AudioBitrateThreshold](#)  
*Bitrate threshold for audio PIDs - in bps.*
- unsigned long [DataBitrateThreshold](#)  
*Bitrate threshold for data PIDs - in bps.*

#### 10.30.1 Detailed Description

The bitrate threshold for video, audio and data service losses (board specific).

Definition at line 22817 of file DCM.idl.

The documentation for this struct was generated from the following file:

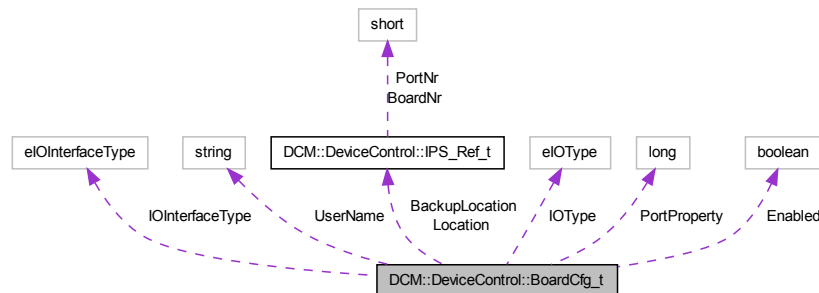
- [DCM.idl](#)

### 10.31 DCM::DeviceControl::BoardCfg\_t Struct Reference

Structure to get or set port information.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BoardCfg\_t:



### Public Attributes

- [IPS\\_Ref\\_t Location](#)  
*The board location and port.*
- [IPS\\_Ref\\_t BackupLocation](#)  
*For ASI a backup input can be specified.*
- [string UserName](#)  
*A user defined name. Max. 40 characters.*
- [eIOInterfaceType IOInterfaceType](#)  
*The type of the port (ASI/GbE).*
- [eIOTType IOType](#)  
*The direction of the port.*
- [boolean Enabled](#)  
*Whether this port is enabled or disabled.*
- [unsigned long PortProperty](#)  
*Read only Bitmap used by GUI to display specific icons. Bit: 0 Individual GbE port streaming state Bit: 1 This port is an SFP port (GbE, Sdi, ...). A user can plug in an appropriate SFP. Bit: 2 This port is a DetMux RDCS TS port. Bit: 31 Monitoring port, restricted functionality Other bits: Future use. (0 for the moment)*

#### 10.31.1 Detailed Description

Structure to get or set port information.

This structure is used by [BoardCfgSet\(\)](#) and [BoardCfgGetL\(\)](#) to set and get configuration data of the ports.

Definition at line 1656 of file DCM.idl.

The documentation for this struct was generated from the following file:

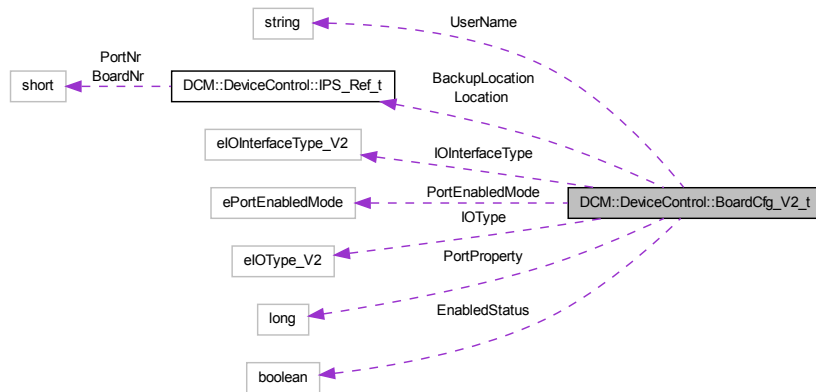
- [DCM.idl](#)

## 10.32 DCM::DeviceControl::BoardCfg\_V2\_t Struct Reference

Structure to get or set port information.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BoardCfg\_V2\_t:



### Public Attributes

- [IPS\\_Ref\\_t Location](#)  
*The board location and port.*
- [IPS\\_Ref\\_t BackupLocation](#)  
*For ASI a backup input can be specified.*
- [string UserName](#)  
*A user defined name. Max. 40 characters.*
- [eIOInterfaceType\\_V2 IOInterfaceType](#)  
*The type of the port (ASI/GbE).*
- [eIOType\\_V2 IOType](#)  
*The direction of the port.*
- [ePortEnabledMode PortEnabledMode](#)  
*How the port mode is configured.*
- [boolean EnabledStatus](#)  
*Whether the status of this port is enabled or disabled.*
- [unsigned long PortProperty](#)  
*Read only Bitmap used by GUI to display specific icons. Bit: 0 Individual GbE port streaming state Bit: 1 This port is an SFP port (GbE, Sdi, ...). A user can plug in an appropriate SFP. Bit: 2 This port is a DetMux RDCS TS port. Bit: 31 Monitoring port, restricted functionality Other bits: Future use. (0 for the moment)*

### 10.32.1 Detailed Description

Structure to get or set port information.

- version 2 This structure is used by [BoardCfg\\_V2\\_Set\(\)](#) and [BoardCfg\\_V2\\_GetL\(\)](#) to set and get configuration data of the ports.

#### Version

Release 8.1

Definition at line 1698 of file DCM.idl.

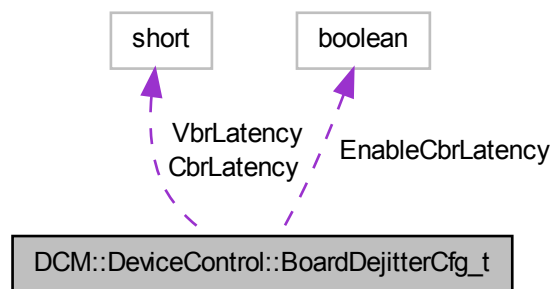
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.33 DCM::DeviceControl::BoardDejitterCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BoardDejitterCfg\_t:



#### Public Attributes

- unsigned short [VbrLatency](#)  
*The VBR dejitter latency in msec, should be 110ms <= latency <= 180.*
- unsigned short [CbrLatency](#)  
*The CBR dejitter latency in msec, should be 10 <= latency <= 110.*
- boolean [EnableCbrLatency](#)  
*If true, CBR dejittered streams will use the CBR latency.*

#### 10.33.1 Detailed Description

Definition at line 2959 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

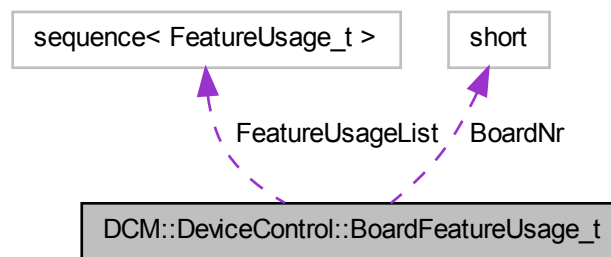


## 10.34 DCM::DeviceControl::BoardFeatureUsage\_t Struct Reference

Contains the feature usage per board.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BoardFeatureUsage\_t:



### Public Attributes

- unsigned short [BoardNr](#)  
*the slot number.*
- [FeatureUsageList\\_t](#) [FeatureUsageList](#)  
*a list of all the used features.*

#### 10.34.1 Detailed Description

Contains the feature usage per board.

Definition at line 20707 of file DCM.idl.

The documentation for this struct was generated from the following file:

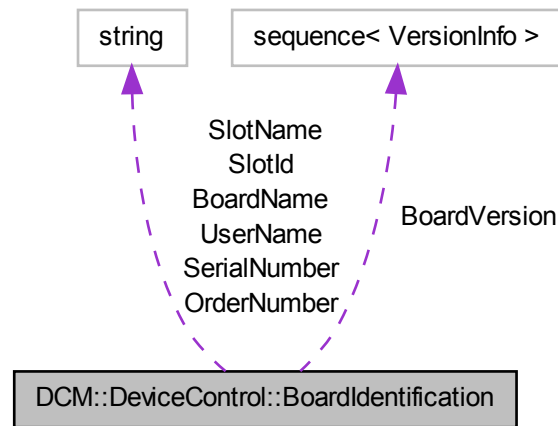
- [DCM.idl](#)

## 10.35 DCM::DeviceControl::BoardIdentification Struct Reference

Information data as returned by [GetSystemId\(\)](#).

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BoardIdentification:



### Public Attributes

- string [BoardName](#)
- string [OrderNumber](#)
- string [SerialNumber](#)
- string [UserName](#)
- string [SlotName](#)  
*Max 40 chars e.g. Input, Output, Aggregate, ... (refers to the backplane name)*
- string [SlotId](#)  
*Max 5 chars e.g. 1A (refers to the backplane id)*
- [VersionInfoList](#) [BoardVersion](#)

#### 10.35.1 Detailed Description

Information data as returned by [GetSystemId\(\)](#).

Definition at line 1281 of file DCM.idl.

The documentation for this struct was generated from the following file:

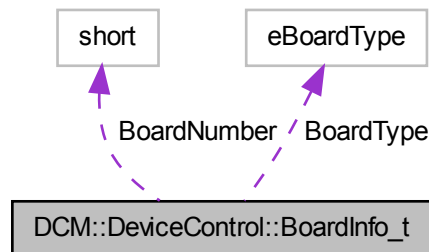
- [DCM.idl](#)

### 10.36 DCM::DeviceControl::BoardInfo\_t Struct Reference

Structure to return board configuration.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BoardInfo\_t:



#### Public Attributes

- unsigned short [BoardNumber](#)  
*The board location the board sits in.*
- eBoardType [BoardType](#)  
*The type. See `DCM_Types.idl`.*

#### 10.36.1 Detailed Description

Structure to return board configuration.

#### Version

Release 1.0

Definition at line 1563 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

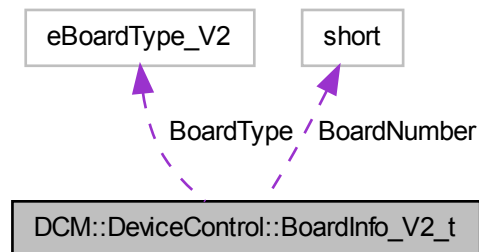
- [DCM.idl](#)

### 10.37 DCM::DeviceControl::BoardInfo\_V2\_t Struct Reference

Structure to return board configuration.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BoardInfo\_V2\_t:



#### Public Attributes

- unsigned short [BoardNumber](#)  
*The board location the board sits in.*
- eBoardType\_V2 [BoardType](#)  
*The type. See DCM\_Types.idl.*

#### 10.37.1 Detailed Description

Structure to return board configuration.

#### Version

Release 6.9

Definition at line 1575 of file DCM.idl.

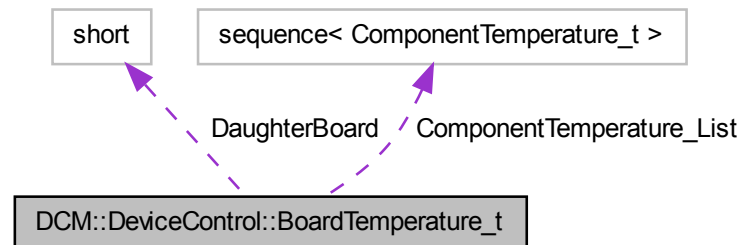
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.38 DCM::DeviceControl::BoardTemperature\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::BoardTemperature\_t:



#### Public Attributes

- unsigned short [DaughterBoard](#)  
*The daughter board identification as returned in `BoardsConnected`.*
- [ComponentTemperature\\_List\\_t](#) `ComponentTemperature_List`

#### 10.38.1 Detailed Description

Definition at line 1948 of file `DCM.idl`.

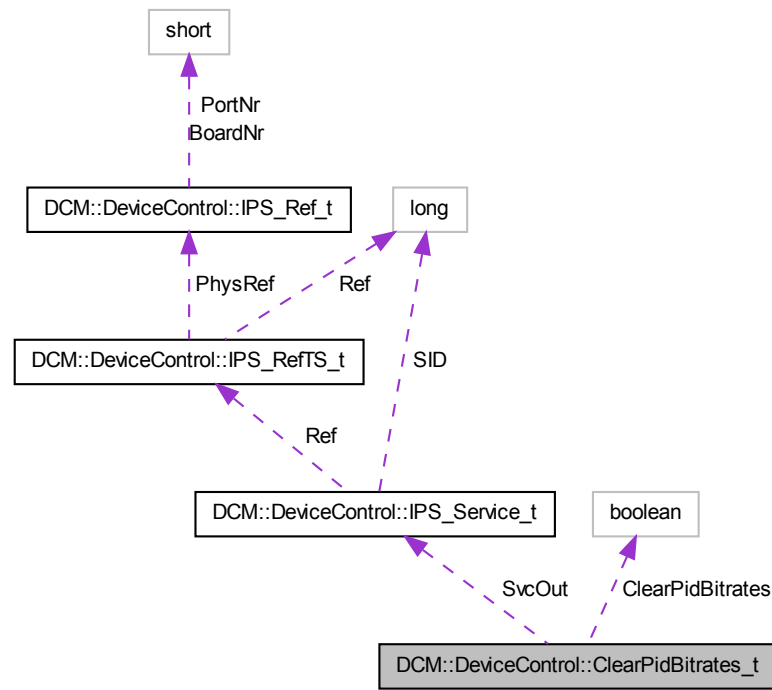
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.39 DCM::DeviceControl::ClearPidBitrates\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ClearPidBitrates\_t:



#### Public Attributes

- [IPS\\_Service\\_t SvcOut](#)
- boolean [ClearPidBitrates](#)

#### 10.39.1 Detailed Description

Definition at line 17636 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

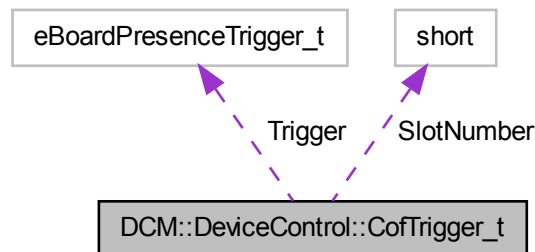
- [DCM.idl](#)

## 10.40 DCM::DeviceControl::CofTrigger\_t Struct Reference

Structure used in the configuration of the triggers for card not operational failure alarms.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::CofTrigger\_t:



#### Public Attributes

- unsigned short [SlotNumber](#)  
*zero based index of the board's slot number (0 = main board).*
- [eBoardPresenceTrigger\\_t](#) `Trigger`  
*defines the trigger for the alarm.*

#### 10.40.1 Detailed Description

Structure used in the configuration of the triggers for card not operational failure alarms.

Definition at line 22940 of file `DCM.idl`.

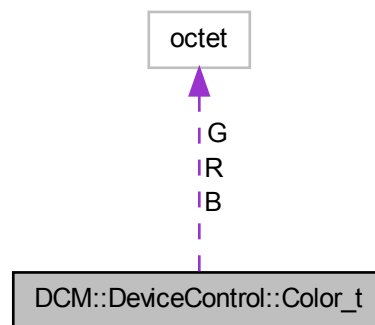
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.41 DCM::DeviceControl::Color\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Color\_t:



#### Public Attributes

- octet [R](#)
- octet [G](#)
- octet [B](#)

#### 10.41.1 Detailed Description

Definition at line 13871 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

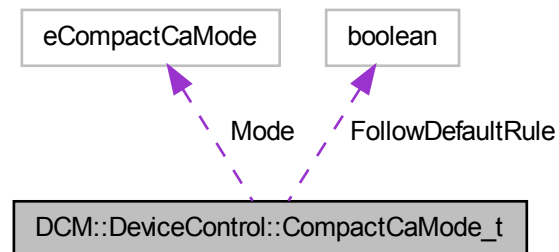
## 10.42 DCM::DeviceControl::CompactCaMode\_t Struct Reference

Compact CA descriptor setting (per input TS)

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::CompactCaMode\_t:



#### Public Attributes

- [eCompactCaMode Mode](#)
- [boolean FollowDefaultRule](#)

*readonly flag indicating if default compact CA settings are used*

#### 10.42.1 Detailed Description

Compact CA descriptor setting (per input TS)

Definition at line 8107 of file DCM.idl.

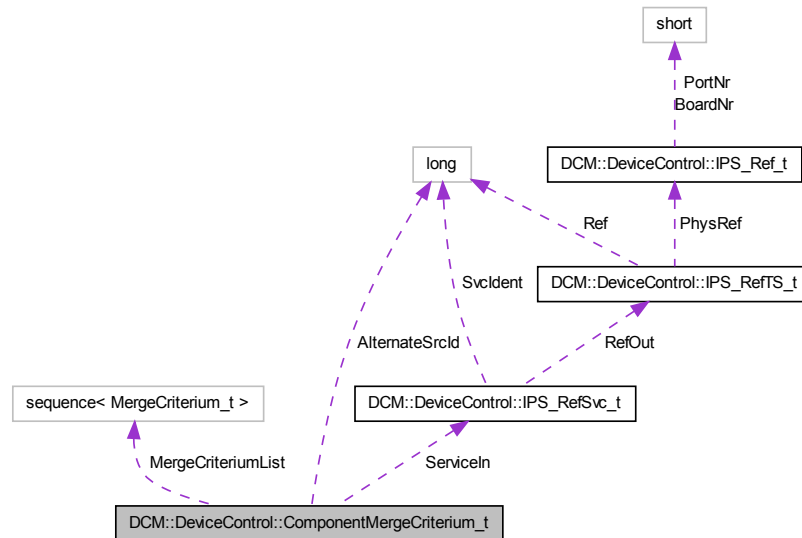
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.43 DCM::DeviceControl::ComponentMergeCriterium\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ComponentMergeCriterium\_t:



### Public Attributes

- [AlternateSrcId\\_t](#) AlternateSrcId
- [IPS\\_RefSvc\\_t](#) ServiceIn
- [MergeCriteriumList\\_t](#) MergeCriteriumList

*For the set call this is the new complete list of merge criteria for an input service.*

#### 10.43.1 Detailed Description

Definition at line 5067 of file DCM.idl.

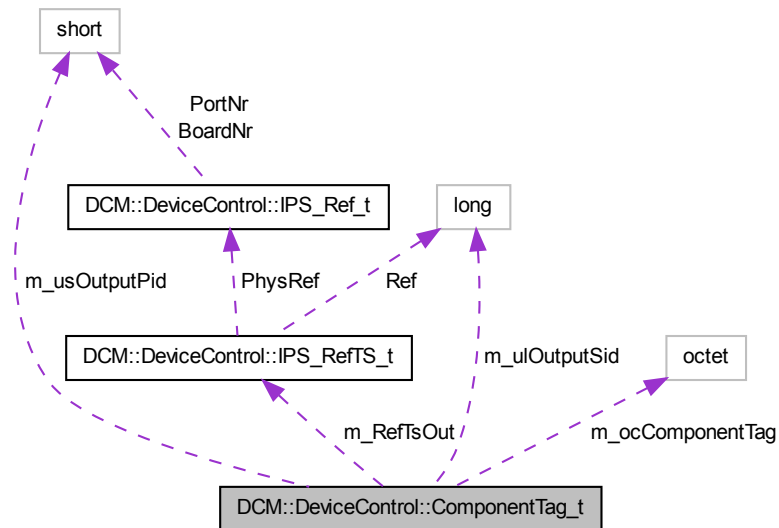
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.44 DCM::DeviceControl::ComponentTag\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ComponentTag\_t:



### Public Attributes

- [IPS\\_RefTS\\_t m\\_RefTsOut](#)  
*The Slot, Port and Index.*
- unsigned long [m\\_ulOutputSid](#)
- unsigned short [m\\_usOutputPid](#)
- octet [m\\_ocComponentTag](#)

#### 10.44.1 Detailed Description

Definition at line 5759 of file DCM.idl.

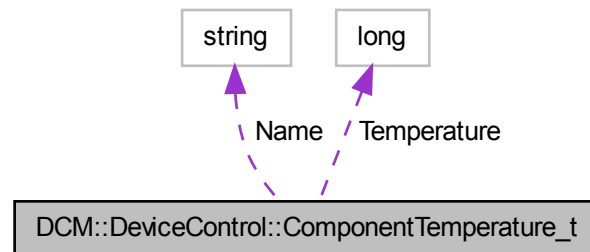
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.45 DCM::DeviceControl::ComponentTemperature\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ComponentTemperature\_t:



#### Public Attributes

- string [Name](#)  
*Possible values: "FEC Die" (I/O board, DaughterBoard 2) "FEC Ambient" (I/O board, DaughterBoard 2) "Ambient 1" (Main board, DaughterBoard 0) "Ambient 2" (Main board, DaughterBoard 0)*
- long [Temperature](#)  
*The temperature of this component in degrees centigrade.*

#### 10.45.1 Detailed Description

Definition at line 1935 of file DCM.idl.

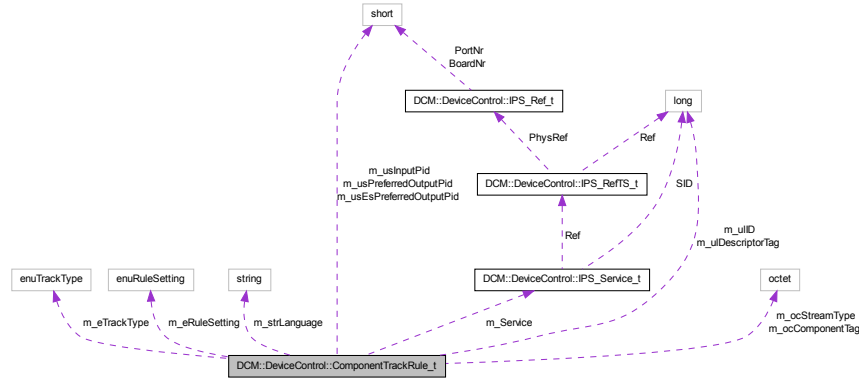
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.46 DCM::DeviceControl::ComponentTrackRule\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ComponentTrackRule\_t:



### Public Attributes

- unsigned long [m\\_ulID](#)
- [IPS\\_Service\\_t](#) [m\\_Service](#)  
*Sid can be INVALID\_SID\_VALUE in case of a TS PID.*
- [enuTrackType](#) [m\\_eTrackType](#)
- octet [m\\_ocComponentTag](#)  
*valid if component tag tracking*
- octet [m\\_ocStreamType](#)  
*valid if stream type tracking*
- string [m\\_strLanguage](#)  
*valid if stream type tracking and audio streamtype*
- unsigned long [m\\_ulDescriptorTag](#)  
*0x56 for teletext descriptor*
- unsigned short [m\\_usInputPid](#)  
*valid is pid tracking (ES, ECM and ES-ECM: always THE input pid)*
- unsigned short [m\\_usEsPreferredOutputPid](#)  
*valid if pid tracking for ECM pid: parent must exist.*
- unsigned short [m\\_usPreferredOutputPid](#)
- [enuRuleSetting](#) [m\\_eRuleSetting](#)

#### 10.46.1 Detailed Description

Definition at line 5789 of file DCM.idl.

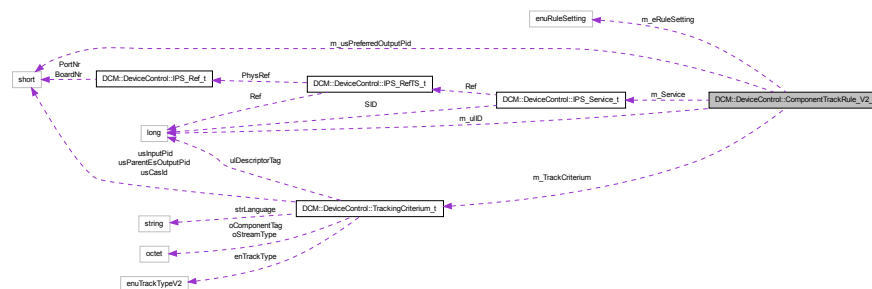
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.47 DCM::DeviceControl::ComponentTrackRule\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ComponentTrackRule\_V2\_t:



## Public Attributes

- unsigned long `m_ulID`
- `IPS_Service_t m_Service`  
*Sid can be INVALID\_SID\_VALUE in case of a TS PID.*
- `TrackingCriterium_t m_TrackCriterium`
- unsigned short `m_usPreferredOutputPid`
- `enuRuleSetting m_eRuleSetting`

### 10.47.1 Detailed Description

Definition at line 5807 of file DCM.idl.

The documentation for this struct was generated from the following file:

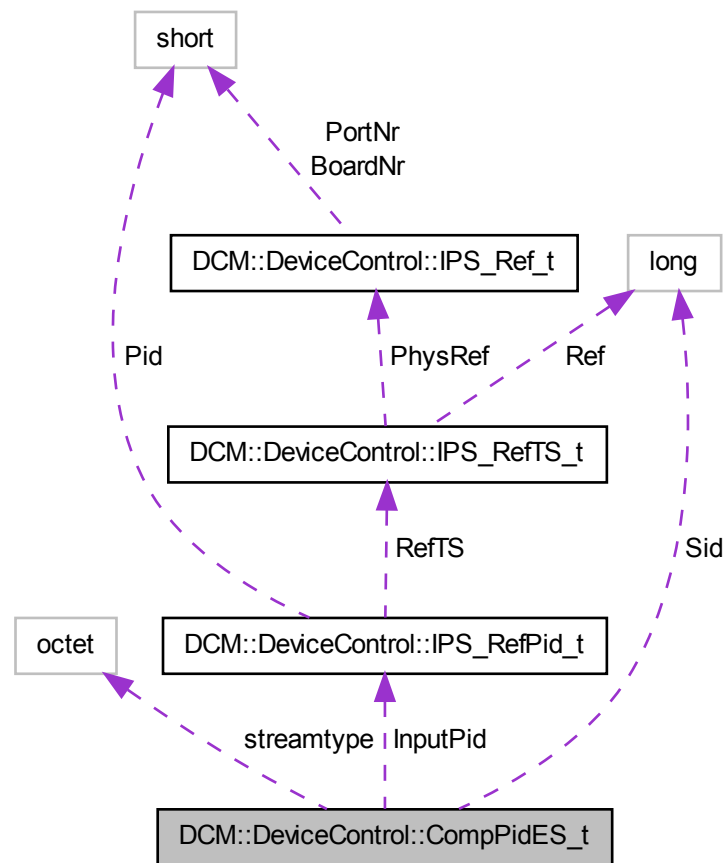
- DCM.idl

## 10.48 DCM::DeviceControl::CompPidES\_t Struct Reference

### Identification of muxed pids.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::CompPidES\_t:



#### Public Attributes

- [IPS\\_RefPid\\_t InputPid](#)  
*Value of the PID at the input TS.*
- unsigned long [Sid](#)  
*Value of the SID at the output TS.*
- octet [streamtype](#)  
*streamtype as it will be added in the PMT. Value: 0..255*

#### 10.48.1 Detailed Description

Identification of muxed pids.

Definition at line 2824 of file DCM.idl.

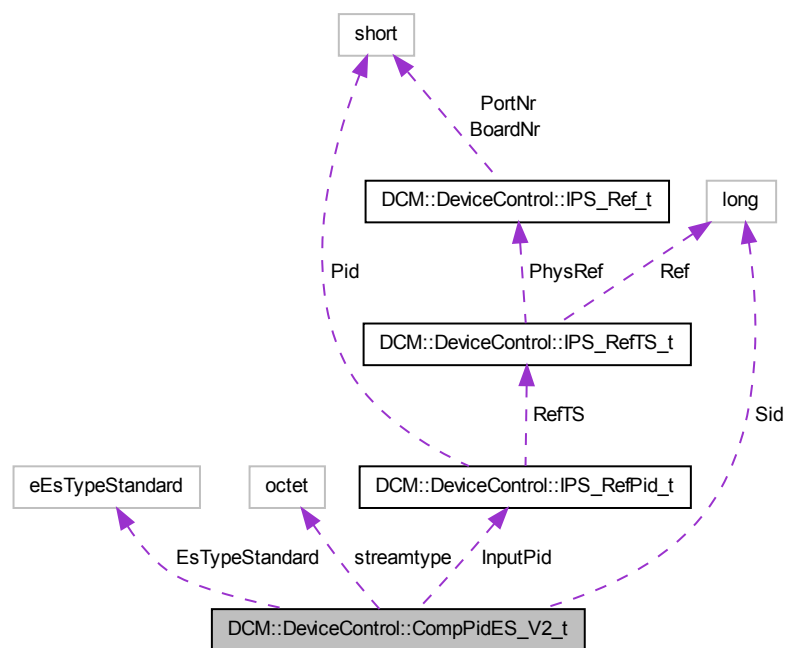
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.49 DCM::DeviceControl::CompPidES\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::CompPidES\_V2\_t:



### Public Attributes

- [IPS\\_RefPid\\_t InputPid](#)

Value of the PID at the input TS. < If in the pid ref, board and port are set to 0xFFFF and input TS ref is 0xFFFFFFFF, < this means it is a dummy output elementary stream. A reference for this < ES will be created in the outgoing PMT. On the output TS, the input pid value < will be used as unique identifier and preferred output pid for the dummy ES.

- unsigned long [Sid](#)

Value of the SID at the output TS.

- octet [streamtype](#)

streamtype as it will be added in the PMT. Value: 0..255

- [eEsTypeStandard EsTypeStandard](#)

The standard of the input TS : DVB, ATSC or Motorola < (necessary to correctly interpret the ES type during matching) < Will only be used for dummy ES, else the real input TS standard < be used.



### 10.49.1 Detailed Description

Definition at line 2834 of file DCM.idl.

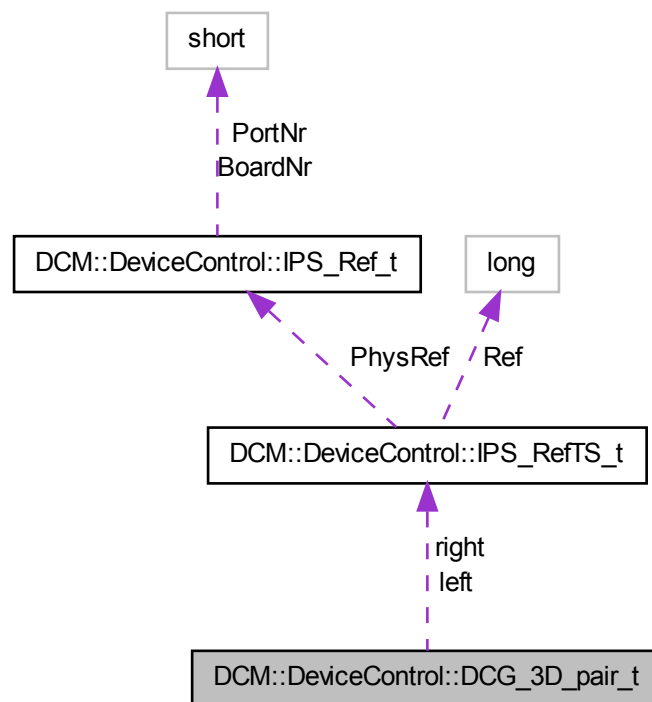
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.50 DCM::DeviceControl::DCG\_3D\_pair\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_3D\_pair\_t:



### Public Attributes

- [IPS\\_RefTS\\_t left](#)
- [IPS\\_RefTS\\_t right](#)

### 10.50.1 Detailed Description

Definition at line 30221 of file DCM.idl.

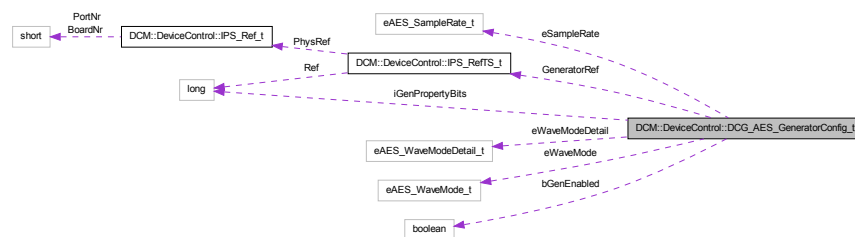
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.51 DCM::DeviceControl::DCG\_AES\_GeneratorConfig\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_AES\_GeneratorConfig\_t:



### Public Attributes

- [IPS\\_RefTS\\_t](#) GeneratorRef
- boolean bGenEnabled
- [eAES\\_SampleRate\\_t](#) eSampleRate
- [eAES\\_WaveMode\\_t](#) eWaveMode
- [eAES\\_WaveModeDetail\\_t](#) eWaveModeDetail
- unsigned long iGenPropertyBits

*Future use.*

### 10.51.1 Detailed Description

Definition at line 30803 of file DCM.idl.

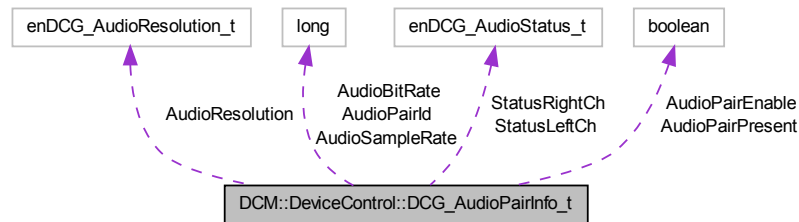
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.52 DCM::DeviceControl::DCG\_AudioPairInfo\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_AudioPairInfo\_t:



### Public Attributes

- [DCG\\_AudioID\\_t](#) AudioPairId
- boolean AudioPairEnable
- boolean AudioPairPresent
- [enDCG\\_AudioResolution\\_t](#) AudioResolution
- unsigned long AudioSampleRate
- unsigned long AudioBitRate
- [enDCG\\_AudioStatus\\_t](#) StatusRightCh
- [enDCG\\_AudioStatus\\_t](#) StatusLeftCh

#### 10.52.1 Detailed Description

Definition at line 31189 of file DCM.idl.

The documentation for this struct was generated from the following file:

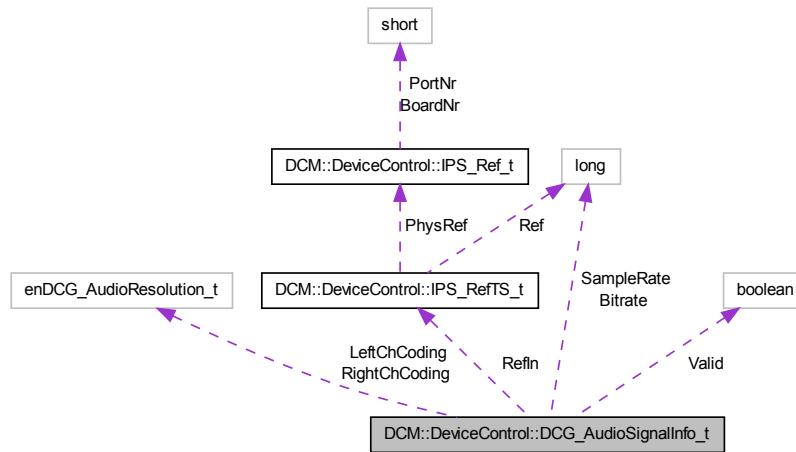
- [DCM.idl](#)

### 10.53 DCM::DeviceControl::DCG\_AudioSignalInfo\_t Struct Reference

Describes the audio signal information.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_AudioSignalInfo\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)  
*Reference of input stream.*
- boolean [Valid](#)  
*Valid status.*
- unsigned long [SampleRate](#)  
*Sample rate (Hz)*
- unsigned long [Bitrate](#)  
*Bitrate of audio signal (bit/s), future!*
- [enDCG\\_AudioResolution\\_t LeftChCoding](#)  
*Resolution of audio left channel.*
- [enDCG\\_AudioResolution\\_t RightChCoding](#)  
*Resolution of audio right channel.*

#### 10.53.1 Detailed Description

Describes the audio signal information.

Definition at line 31204 of file DCM.idl.

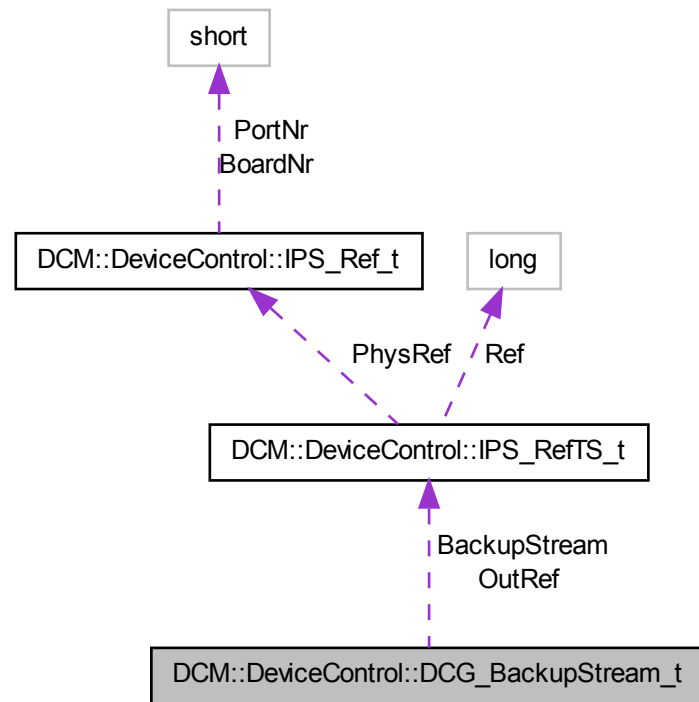
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.54 DCM::DeviceControl::DCG\_BackupStream\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_BackupStream\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t OutRef](#)
- [IPS\\_RefTS\\_t BackupStream](#)

#### 10.54.1 Detailed Description

Definition at line 31033 of file DCM.idl.

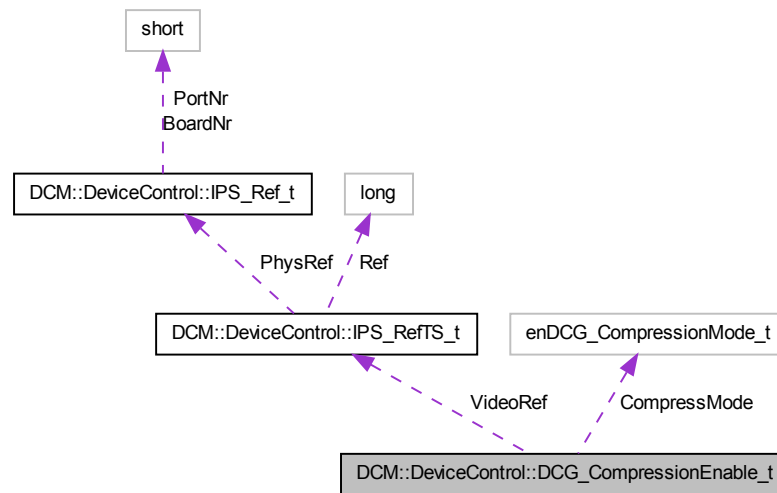
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.55 DCM::DeviceControl::DCG\_CompressionEnable\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_CompressionEnable\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t VideoRef](#)
- [enDCG\\_CompressionMode\\_t CompressMode](#)

#### 10.55.1 Detailed Description

Definition at line 31246 of file DCM.idl.

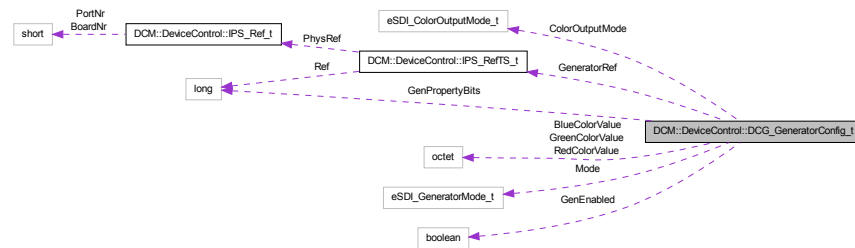
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.56 DCM::DeviceControl::DCG\_GeneratorConfig\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_GeneratorConfig\_t:



### Public Attributes

- [IPS\\_RefTS\\_t](#) GeneratorRef
- boolean GenEnabled
- [eSDI\\_GeneratorMode\\_t](#) Mode
- [eSDI\\_ColorOutputMode\\_t](#) ColorOutputMode
- *only Static mode supported*
- unsigned long GenPropertyBits
- *Future use.*
- octet RedColorValue
- octet GreenColorValue
- octet BlueColorValue

#### 10.56.1 Detailed Description

Definition at line 30732 of file DCM.idl.

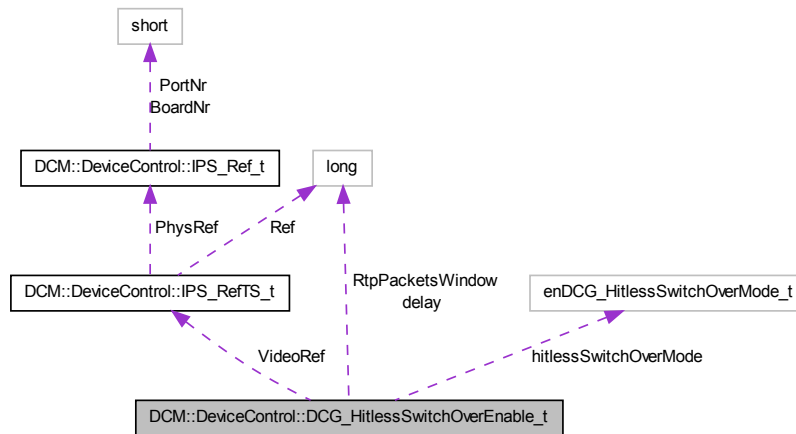
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.57 DCM::DeviceControl::DCG\_HitlessSwitchOverEnable\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_HitlessSwitchOverEnable\_t:



### Public Attributes

- [IPS\\_RefTS\\_t VideoRef](#)
- [enDCG\\_HitlessSwitchOverMode\\_t hitlessSwitchOverMode](#)
- unsigned long [RtpPacketsWindow](#)
- unsigned long [delay](#)

### 10.57.1 Detailed Description

Definition at line 31499 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

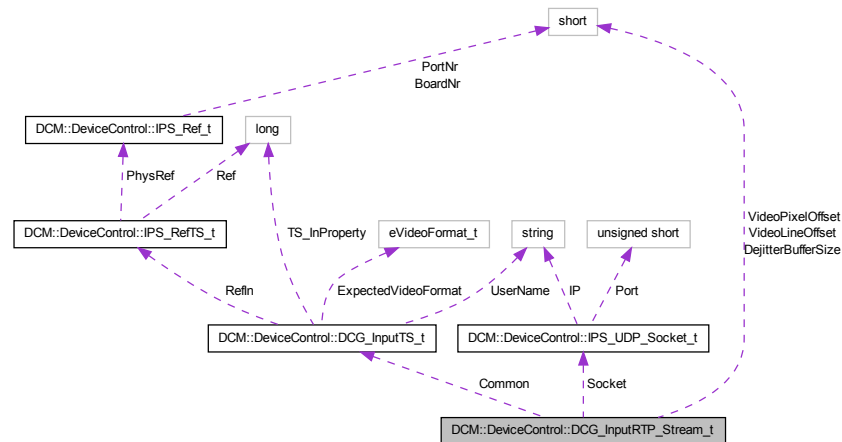
## 10.58 DCM::DeviceControl::DCG\_InputRTP\_Stream\_t Struct Reference

Prior to version 9.10: Between 10 and 100 (default 60) A sequence of [DCG\\_InputTS\\_t](#) entries.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::DCG\_InputRTP\_Stream\_t:



## Public Attributes

- [DCG\\_InputTS\\_t](#) Common
- [IPS\\_UDP\\_Socket\\_t](#) Socket  
*Unique IP-Address and UDP port combination.*
- short [VideoLineOffset](#)  
*between plus and minus 10 (default = 0)*
- short [VideoPixelOffset](#)  
*between plus and minus 432(SD)/1320(HD) (default = 0)*
- unsigned short [DejitterBufferSize](#)  
*in ms < For uncompressed: Between 7 and 200 (default 25) < For compressed: Between 1 and 200 (default 25) < Prior to version 10.10: Between 10 and 200 (default 25)*

### 10.58.1 Detailed Description

Prior to version 9.10: Between 10 and 100 (default 60) A sequence of [DCG\\_InputTS\\_t](#) entries.

Definition at line 30002 of file DCM.idl.

The documentation for this struct was generated from the following file:

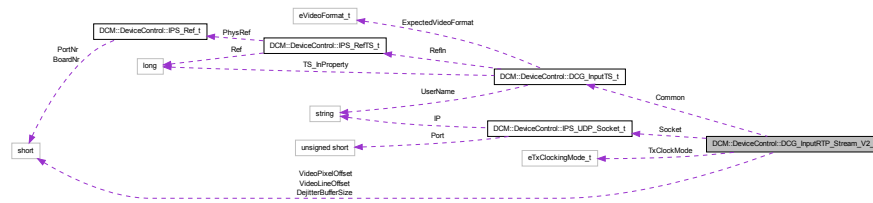
- [DCM.idl](#)

## 10.59 DCM::DeviceControl::DCG\_InputRTP\_Stream\_V2\_t Struct Reference

Prior to version 9.10: Between 10 and 100 (default 60)

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_InputRTP\_Stream\_V2\_t:



## Public Attributes

- [DCG\\_InputTS\\_t](#) Common
- [IPS\\_UDP\\_Socket\\_t](#) Socket

*Unique IP-Address and UDP port combination.*

- [eTxClockingMode\\_t](#) TxClockMode
- short [VideoLineOffset](#)
- short [VideoPixelOffset](#)
- unsigned short [DeJitterBufferSize](#)

*in ms < For uncompressed: Between 7 and 200 (default 25) < For compressed: Between 1 and 200 (default 25) < Prior to version 10.10: Between 10 and 200 (default 25)*

### 10.59.1 Detailed Description

Prior to version 9.10: Between 10 and 100 (default 60)

Definition at line 30024 of file DCM.idl.

The documentation for this struct was generated from the following file:

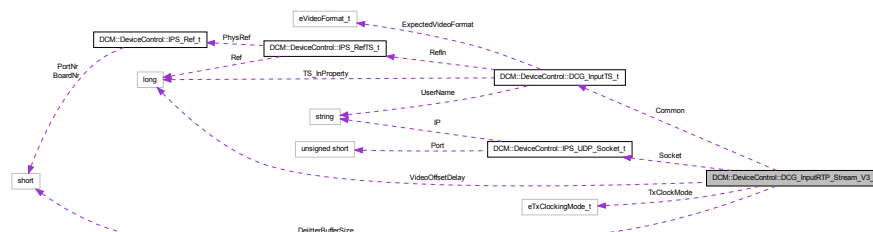
- [DCM.idl](#)

## 10.60 DCM::DeviceControl::DCG\_InputRTP\_Stream\_V3\_t Struct Reference

Prior to version 9.10: Between 10 and 100 (default 60)

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_InputRTP\_Stream\_V3\_t:



## Public Attributes

- [DCG\\_InputTS\\_t Common](#)
- [IPS\\_UDP\\_Socket\\_t Socket](#)

*Unique IP-Address and UDP port combination.*

- [eTxClockingMode\\_t TxClockMode](#)
- long [VideoOffsetDelay](#)

*For Video Gateway: Unit is nanos, ranging from -100000000 to 100000000 in increments of 5 ns. < For Audio Gateway: Unit is frames, ranging from 0 to 191 in increments of 1 frame.*

- unsigned short [DejitterBufferSize](#)

*in ms < For Audio Gateway: Between 10 and 200 (default 25) < For uncompressed: Between 7 and 200 (default 25) < For compressed: Between 1 and 200 (default 25) < Prior to version 10.10: Between 10 and 200 (default 25)*

## 10.60.1 Detailed Description

Prior to version 9.10: Between 10 and 100 (default 60)

Definition at line 30040 of file DCM.idl.

The documentation for this struct was generated from the following file:

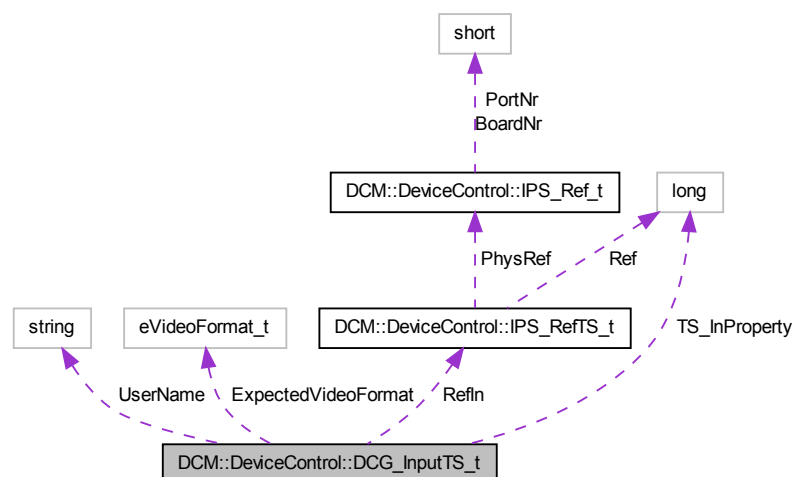
- [DCM.idl](#)

## 10.61 DCM::DeviceControl::DCG\_InputTS\_t Struct Reference

Information of an incoming TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_InputTS\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)  
*The location of the TS (Board, Port and Ref).*
- unsigned long [TS\\_InProperty](#)  
*Read only Bitmap used by GUI to display specific icons.*
- [eVideoFormat\\_t ExpectedVideoFormat](#)
- string [UserName](#)

## 10.61.1 Detailed Description

Information of an incoming TS.

Definition at line 29978 of file DCM.idl.

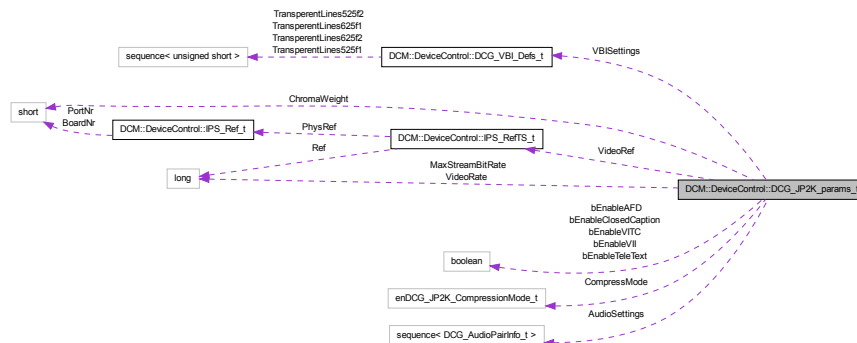
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.62 DCM::DeviceControl::DCG\_JP2K\_params\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_JP2K\_params\_t:



## Public Attributes

- [IPS\\_RefTS\\_t VideoRef](#)
- [enDCG\\_JP2K\\_CompressionMode\\_t CompressMode](#)
- unsigned long [VideoRate](#)
- unsigned short [ChromaWeight](#)
- unsigned long [MaxStreamBitRate](#)
- [DCG\\_AudioPairInfo\\_List\\_t AudioSettings](#)
- boolean [bEnableVITC](#)
- boolean [bEnableVII](#)
- boolean [bEnableAFD](#)
- boolean [bEnableTeleText](#)

- boolean [bEnableClosedCaption](#)
- [DCG\\_VBI\\_Defs\\_t](#) [VBISettings](#)

### 10.62.1 Detailed Description

Definition at line 31300 of file DCM.idl.

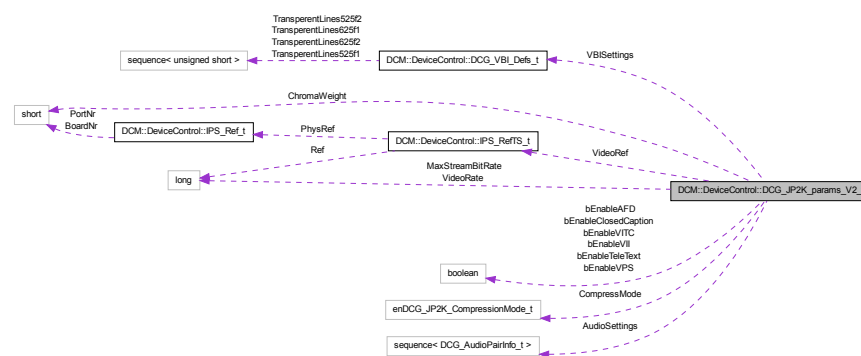
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.63 DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_JP2K\_params\_V2\_t:



### Public Attributes

- [IPS\\_RefTS\\_t](#) [VideoRef](#)
- [enDCG\\_JP2K\\_CompressionMode\\_t](#) [CompressMode](#)
- unsigned long [VideoRate](#)
- unsigned short [ChromaWeight](#)
- unsigned long [MaxStreamBitRate](#)
- [DCG\\_AudioPairInfo\\_List\\_t](#) [AudioSettings](#)
- boolean [bEnableVITC](#)
- boolean [bEnableVII](#)
- boolean [bEnableAFD](#)
- boolean [bEnableTeleText](#)
- boolean [bEnableClosedCaption](#)
- [DCG\\_VBI\\_Defs\\_t](#) [VBISettings](#)
- boolean [bEnableVPS](#)

### 10.63.1 Detailed Description

Definition at line 31320 of file DCM.idl.

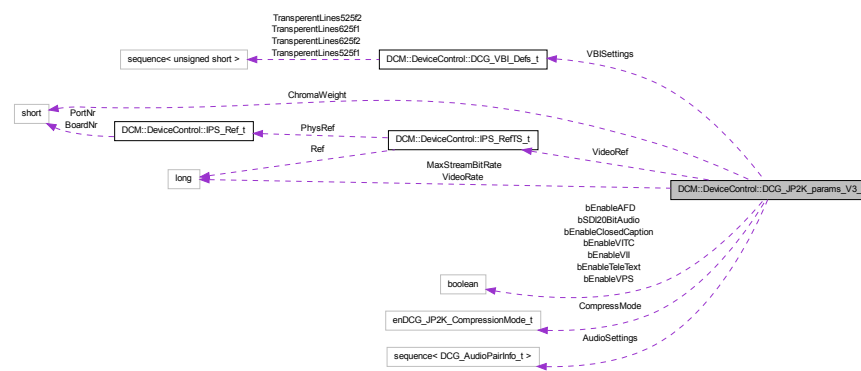
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.64 DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_JP2K\_params\_V3\_t:



### Public Attributes

- [IPS\\_RefTS\\_t](#) VideoRef
- [enDCG\\_JP2K\\_CompressionMode\\_t](#) CompressMode
- unsigned long VideoRate
- unsigned short ChromaWeight
- unsigned long MaxStreamBitRate
- [DCG\\_AudioPairInfo\\_List\\_t](#) AudioSettings
- boolean bEnableVITC
- boolean bEnableVII
- boolean bEnableAFD
- boolean bEnableTeleText
- boolean bEnableClosedCaption
- [DCG\\_VBI\\_Defs\\_t](#) VBI\_Settings
- boolean bEnableVPS
- boolean bSDI20BitAudio

### 10.64.1 Detailed Description

Definition at line 31341 of file DCM.idl.

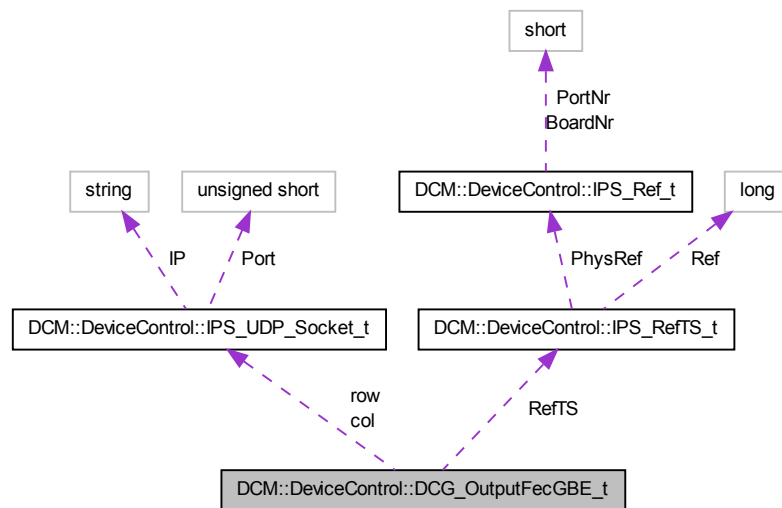
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.65 DCM::DeviceControl::DCG\_OutputFecGBE\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_OutputFecGBE\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefTS](#)
- [IPS\\_UDP\\_Socket\\_t row](#)  
*Destination UDP socket for FEC ROW.*
- [IPS\\_UDP\\_Socket\\_t col](#)  
*Destination UDP socket for FEC COL.*

## 10.65.1 Detailed Description

Definition at line 30142 of file DCM.idl.

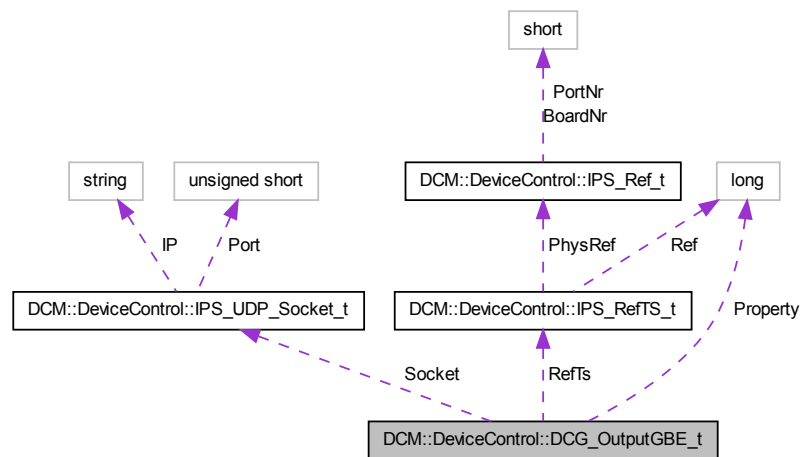
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.66 DCM::DeviceControl::DCG\_OutputGBE\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_OutputGBE\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- unsigned long [Property](#)  
*Bit 0: if VLAN enabled < Bit 1: if stream is present at output.*
- [IPS\\_UDP\\_Socket\\_t Socket](#)  
*Destination UDP socket.*

### 10.66.1 Detailed Description

Definition at line 30132 of file DCM.idl.

The documentation for this struct was generated from the following file:

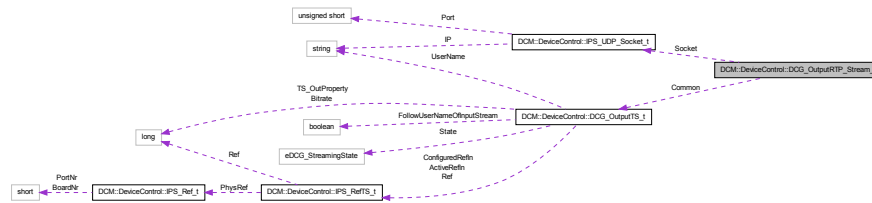
- [DCM.idl](#)

## 10.67 DCM::DeviceControl::DCG\_OutputRTP\_Stream\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::DCG\_OutputRTP\_Stream\_t:



## Public Attributes

- [DCG\\_OutputTS\\_t](#) Common
- [IPS\\_UDP\\_Socket\\_t](#) Socket

*Unique destination IP-Address and UDP port combination.*

## 10.67.1 Detailed Description

Definition at line 30103 of file DCM.idl.

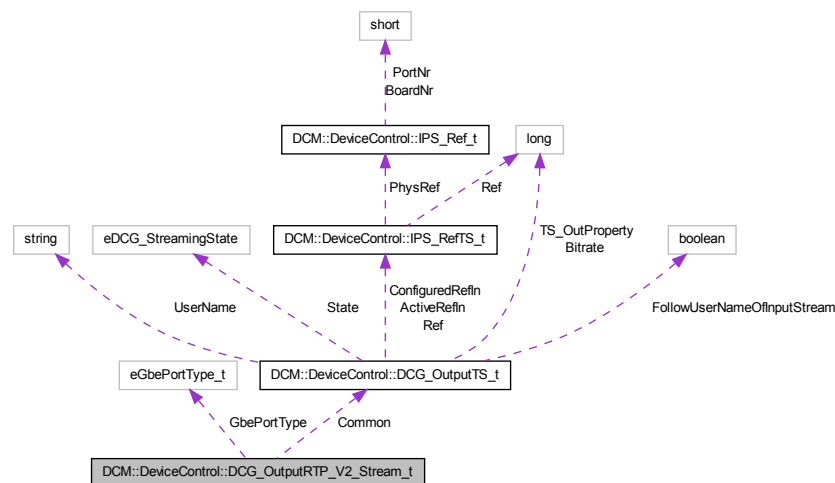
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.68 DCM::DeviceControl::DCG\_OutputRTP\_V2\_Stream\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_OutputRTP\_V2\_Stream\_t:



## Public Attributes

- [DCG\\_OutputTS\\_t Common](#)
- [eGbePortType\\_t GbePortType](#)

## 10.68.1 Detailed Description

Definition at line 30122 of file DCM.idl.

The documentation for this struct was generated from the following file:

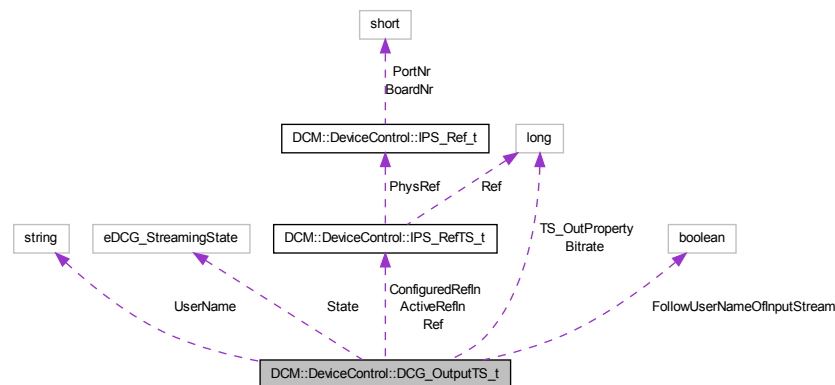
- [DCM.idl](#)

## 10.69 DCM::DeviceControl::DCG\_OutputTS\_t Struct Reference

Information-Settings of an outgoing TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_OutputTS\_t:



## Public Attributes

- [IPS\\_RefTS\\_t Ref](#)  
*The location of the TS (Board, Port and Ref).*
- unsigned long [Bitrate](#)  
*Bitrate of the outgoing TS (in bps).*
- [eDCG\\_StreamingState State](#)
- unsigned long [TS\\_OutProperty](#)  
*Read only Bitmap used by GUI to display specific icons < Bit 3: TRUE if RTP is streamed < Bit 4: TRUE if VLAN is enabled < Bit 5: TRUE if VBR is enabled < Bit 6: TRUE if Stream is routed < Bit 7: TRUE if Stream is present at input < Bit 9: TRUE if FEC column stream is enabled < Bit 10: TRUE if FEC row stream is enabled < Bit 11: TRUE if Stream is in Backup.*
- boolean [FollowUserNameOfInputStream](#)
- string [UserName](#)

- [IPS\\_RefTS\\_t ConfiguredRefIn](#)
- [IPS\\_RefTS\\_t ActiveRefIn](#)

#### 10.69.1 Detailed Description

Information-Settings of an outgoing TS.

Definition at line 30077 of file DCM.idl.

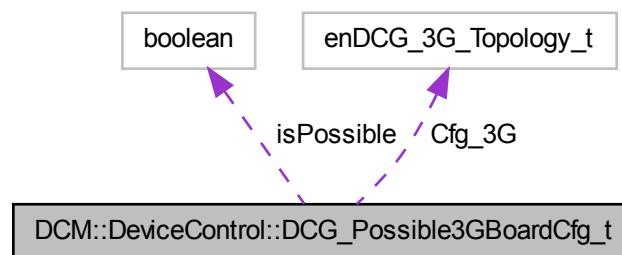
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.70 DCM::DeviceControl::DCG\_Possible3GBoardCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_Possible3GBoardCfg\_t:



#### Public Attributes

- `boolean` [isPossible](#)  
*Is it possible to apply this board configuration.*
- [enDCG\\_3G\\_Topology\\_t](#) `Cfg_3G`

#### 10.70.1 Detailed Description

Definition at line 31116 of file DCM.idl.

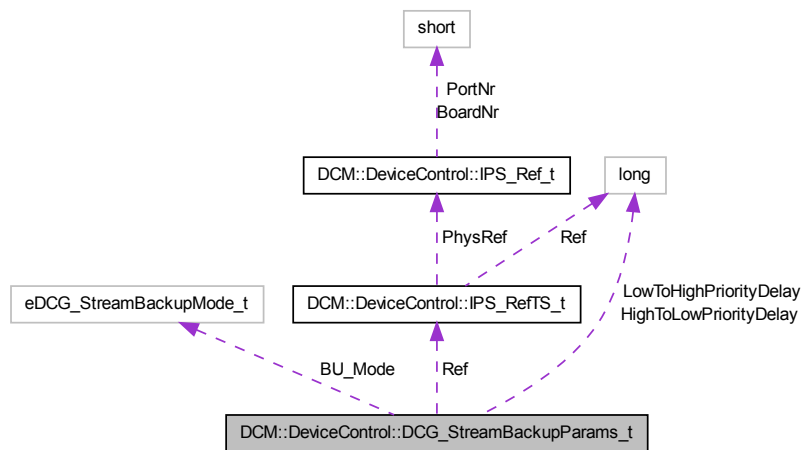
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.71 DCM::DeviceControl::DCG\_StreamBackupParams\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_StreamBackupParams\_t:



## Public Attributes

- [IPS\\_RefTS\\_t](#) Ref
- [eDCG\\_StreamBackupMode\\_t](#) BU\_Mode
- unsigned long [HighToLowPriorityDelay](#)
- unsigned long [LowToHighPriorityDelay](#)

## 10.71.1 Detailed Description

Definition at line 30988 of file DCM.idl.

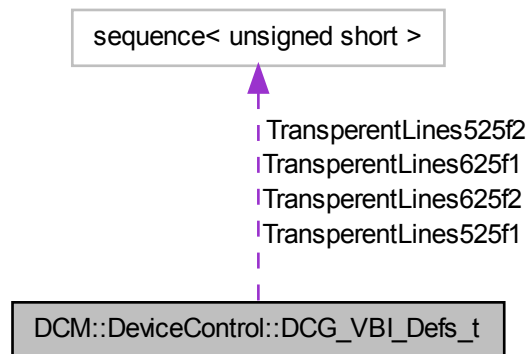
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.72 DCM::DeviceControl::DCG\_VBI\_Defs\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DCG\_VBI\_Defs\_t:



#### Public Attributes

- [DCG\\_VBI\\_Lines\\_t](#) TransperentLines525f1
- [DCG\\_VBI\\_Lines\\_t](#) TransperentLines525f2
- [DCG\\_VBI\\_Lines\\_t](#) TransperentLines625f1
- [DCG\\_VBI\\_Lines\\_t](#) TransperentLines625f2

#### 10.72.1 Detailed Description

Definition at line 31292 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.73 DCM::DCM\_Notifications Interface Reference

Description of all external notifications.

```
import "DCM.idl";
```

#### Classes

- struct [DCM\\_TsIdOnIdChange](#)  
*Notification sent by IO when an alarm configured as trigger changes current state (alarms) No parameters given.*
- struct [Messages](#)  
*Notification sent by MB when a new message is available (alarms)*
- struct [Output\\_SI\\_TableChng](#)

*Notification sent when a Table is added (starts streaming) or changed.*

- struct [Output\\_SI\\_TableDel](#)

*Notification sent when a Table is deleted (stops streaming).*

- struct [Output\\_TS\\_Change](#)
- struct [Output\\_TS\\_Delete](#)

*Notification sent when a TS is deleted (removed from DCM).*

### 10.73.1 Detailed Description

Description of all external notifications.

Notifications are sent as a sequence of notifications of the same type. The data of a notification is a sequence of maximum 10 unsigned longs. Here is a description of the data of each notification. The name of the struct is the name of the notification.

Definition at line 32228 of file DCM.idl.

The documentation for this interface was generated from the following file:

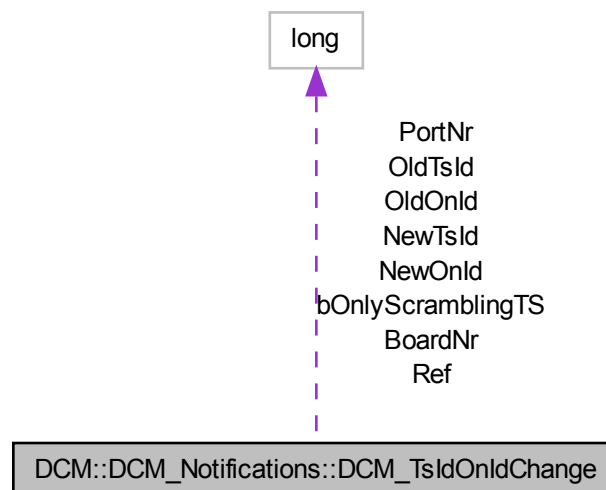
- [DCM.idl](#)

## 10.74 DCM::DCM\_Notifications::DCM\_TsIdOnIdChange Struct Reference

Notification sent by IO when an alarm configured as trigger changes current state (alarms) No parameters given.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DCM\_Notifications::DCM\_TsIdOnIdChange:



### Public Attributes

- unsigned long [bOnlyScramblingTS](#)  
*boolean to notify only TS's with licenses are reported*
- unsigned long [BoardNr](#)
- unsigned long [PortNr](#)
- unsigned long [Ref](#)
- unsigned long [OldOnId](#)
- unsigned long [NewOnId](#)
- unsigned long [OldTsId](#)
- unsigned long [NewTsId](#)

### 10.74.1 Detailed Description

Notification sent by IO when an alarm configured as trigger changes current state (alarms) No parameters given.

The client should synchronize each time

### Remarks

OBSOLETE, not sent anymore since [DCM V5.1](#) Notification sent by MB when TSID/ONID of a TS with DVB\_SCRAMBLING licenses changes.

Definition at line 32256 of file DCM.idl.

The documentation for this struct was generated from the following file:

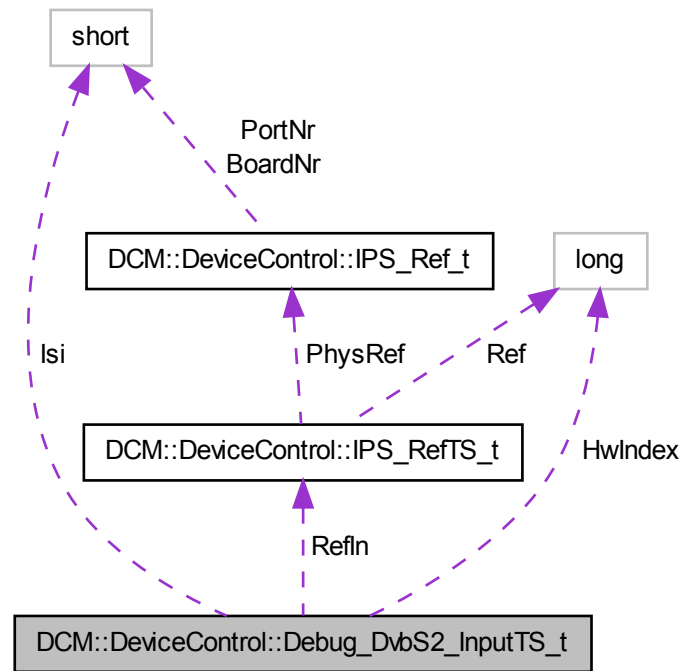
- [DCM.idl](#)

## 10.75 DCM::DeviceControl::Debug\_DvbS2\_InputTS\_t Struct Reference

Information about a DVBS2 input TS, including the hardware index.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Debug\_DvbS2\_InputTS\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)  
The location of the TS (Board, Port and Ref).
- [DvbS2\\_Isi\\_t Isi](#)  
Input stream identifier (`INVALID_ISI` in case of single stream).
- unsigned long [HwIndex](#)  
The hardware index for a stream.

### 10.75.1 Detailed Description

Information about a DVBS2 input TS, including the hardware index.

Definition at line 7763 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

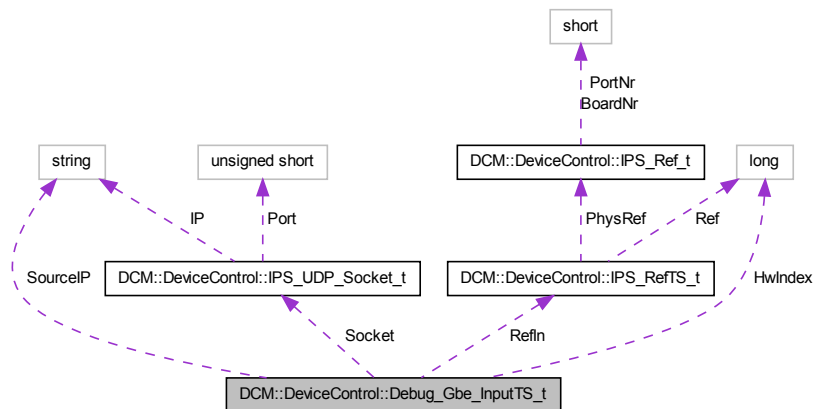
- [DCM.idl](#)



## 10.76 DCM::DeviceControl::Debug\_Gbe\_InputTS\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Debug\_Gbe\_InputTS\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)  
*The location of the TS (Board, Port and Ref).*
- [IPS\\_UDP\\_Socket\\_t Socket](#)  
*Unique IP-Address and UDP port combination.*
- string [SourceIP](#)  
*The source IP-Address of the incoming TS.*
- unsigned long [HwIndex](#)  
*The hardware index for a stream.*

## 10.76.1 Detailed Description

Definition at line 2383 of file DCM.idl.

The documentation for this struct was generated from the following file:

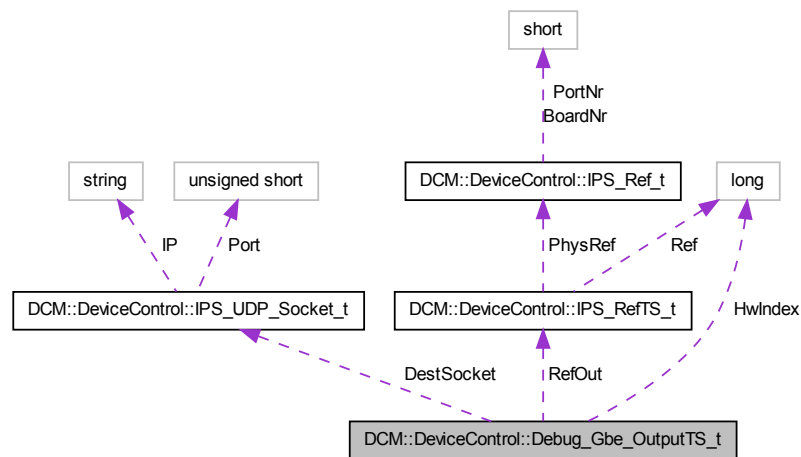
- [DCM.idl](#)

## 10.77 DCM::DeviceControl::Debug\_Gbe\_OutputTS\_t Struct Reference

Information-Settings of an outgoing TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Debug\_Gbe\_OutputTS\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefOut](#)  
*The location of the TS (Board, Port and Ts Ident).*
- [IPS\\_UDP\\_Socket\\_t DestSocket](#)  
*Unique destination IP-Address and UDP port combination.*
- unsigned long [HwIndex](#)  
*The hardware index for a stream.*

#### 10.77.1 Detailed Description

Information-Settings of an outgoing TS.

Definition at line 2448 of file DCM.idl.

The documentation for this struct was generated from the following file:

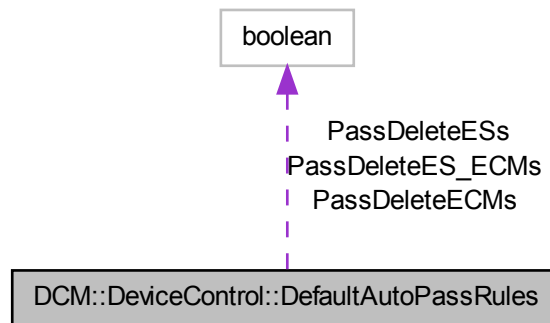
- [DCM.idl](#)

## 10.78 DCM::DeviceControl::DefaultAutoPassRules Struct Reference

Default Service component behaviour.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DefaultAutoPassRules:



#### Public Attributes

- boolean [PassDeleteESs](#)  
*read-write; true = ESs are auto passed/deleted; false = block of ESs; default true*
- boolean [PassDeleteECMs](#)  
*read-write; true = ECMs are auto passed/deleted; false = block of ECMs; default true*
- boolean [PassDeleteES\\_ECMs](#)  
*read-write; true = ES\_ECMs are auto passed/deleted; false = block of ES\_ECMs*

#### 10.78.1 Detailed Description

Default Service component behaviour.

Definition at line 2879 of file DCM.idl.

The documentation for this struct was generated from the following file:

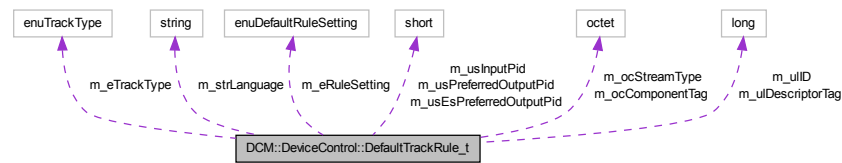
- [DCM.idl](#)

### 10.79 DCM::DeviceControl::DefaultTrackRule\_t Struct Reference

Structure for board default component tracking rules.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DefaultTrackRule\_t:



### Public Attributes

- unsigned long [m\\_ulID](#)
- [enuTrackType](#) [m\\_eTrackType](#)
- octet [m\\_ocComponentTag](#)  
*valid if component tag tracking*
- octet [m\\_ocStreamType](#)  
*valid if stream type tracking*
- string [m\\_strLanguage](#)  
*valid if stream type tracking and audio streamtype*
- unsigned long [m\\_ulDescriptorTag](#)  
*0x56 for teletext descriptor*
- unsigned short [m\\_usInputPid](#)  
*valid is pid tracking (ES, ECM and ES-ECM: always THE input pid)*
- unsigned short [m\\_usEsPreferredOutputPid](#)  
*valid if pid tracking for ECM pid: parent must exist.*
- unsigned short [m\\_usPreferredOutputPid](#)
- [enuDefaultRuleSetting](#) [m\\_eRuleSetting](#)

#### 10.79.1 Detailed Description

Structure for board default component tracking rules.

This is a first version, development both embedded and at the GUI side may change this.

Definition at line 5830 of file DCM.idl.

The documentation for this struct was generated from the following file:

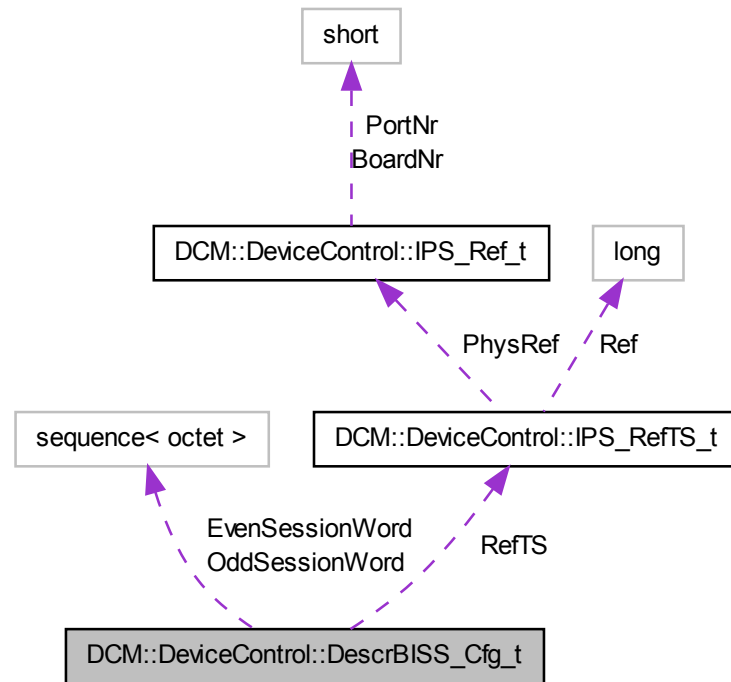
- [DCM.idl](#)

## 10.80 DCM::DeviceControl::DescrBISS\_Cfg\_t Struct Reference

Configuration of BISS descrambling.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescrBISS\_Cfg\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTS](#)  
*reference of the TS on the BISS descrambler.*
- [ByteStream EvenSessionWord](#)  
*session word for BISS descrambling with even parity.*
- [ByteStream OddSessionWord](#)  
*session word for BISS descrambling with odd parity.*

### 10.80.1 Detailed Description

Configuration of BISS descrambling.

Currently either an even or add session word can be provided (BISS-1 has a fixed parity). The unused parity is determined by leaving the session word for that parity empty. This structure only can be used to set the BISS session word on TS level. Configuration of session words on service level or component level is done via [DescrSvcConfigSetL\(\)](#).

Definition at line 28769 of file DCM.idl.

The documentation for this struct was generated from the following file:

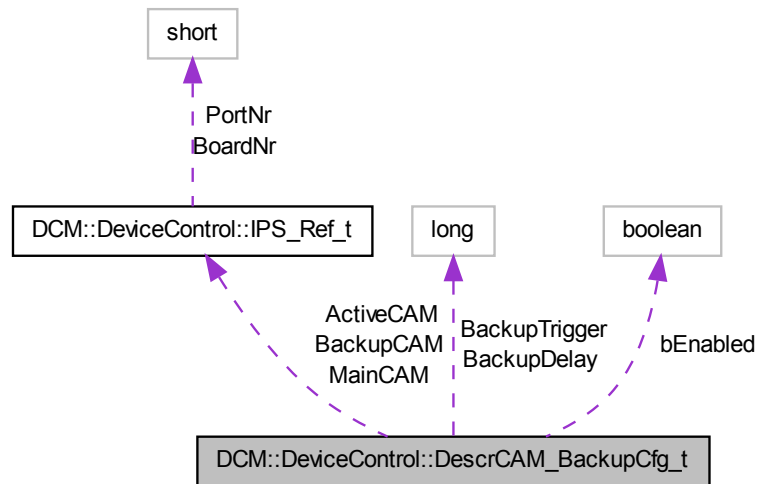
- [DCM.idl](#)

## 10.81 DCM::DeviceControl::DescrCAM\_BackupCfg\_t Struct Reference

Structure used to configure CAM backup.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescrCAM\_BackupCfg\_t:



### Public Attributes

- [IPS\\_Ref\\_t MainCAM](#)  
*reference of the main CAM*
- boolean [bEnabled](#)  
*true: backup enabled, false: backup disabled*
- [IPS\\_Ref\\_t BackupCAM](#)  
*reference of the backup CAM*
- [IPS\\_Ref\\_t ActiveCAM](#)  
*active CAM (can also be used to revert to MAIN CAM)*
- unsigned long [BackupDelay](#)  
*delay to switch from a failing CAM to the backup*
- unsigned long [BackupTrigger](#)  
*bitmap containing the backup triggers. Bit0: service not descrambled. other bits for future use.*

### 10.81.1 Detailed Description

Structure used to configure CAM backup.

Currently the backup trigger is not configurable. Service not descrambled condition is used to trigger CAM backup. Which services can trigger CAM backup is configured in [DescrSvcConfig\\_t](#).

Definition at line 28632 of file DCM.idl.

The documentation for this struct was generated from the following file:

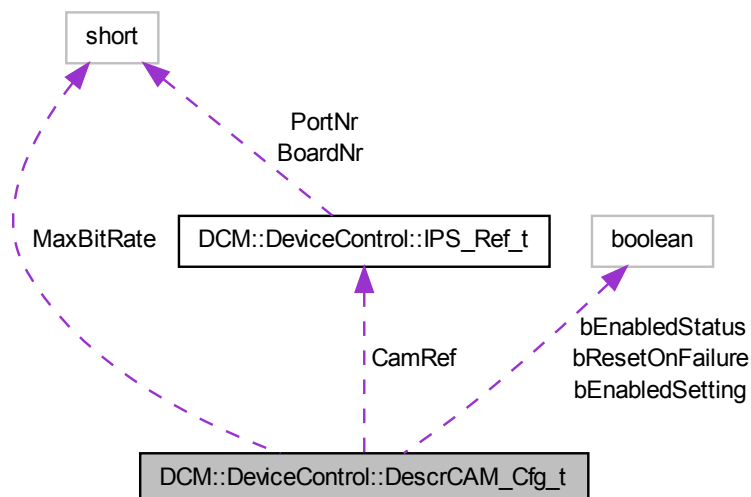
- [DCM.idl](#)

## 10.82 DCM::DeviceControl::DescrCAM\_Cfg\_t Struct Reference

Defines the configuration of the CAM itself.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescrCAM\_Cfg\_t:



### Public Attributes

- [IPS\\_Ref\\_t CamRef](#)  
*CAM identification.*
- boolean [bEnabledSetting](#)  
*true: enable CAM. requires a license to enable.*
- boolean [bEnabledStatus](#)  
*readonly enabled status. Can be different from enabled setting if e.g. after reboot the necessary licenses are missing.*
- boolean [bResetOnFailure](#)  
*true: reset CAM if descrambling fails on all services False: do not reset. Default value is true.*
- unsigned short [MaxBitRate](#)  
*In Mbps. Range: 72 .. 200. Default: 72.*

## 10.82.1 Detailed Description

Defines the configuration of the CAM itself.

Definition at line 28505 of file DCM.idl.

The documentation for this struct was generated from the following file:

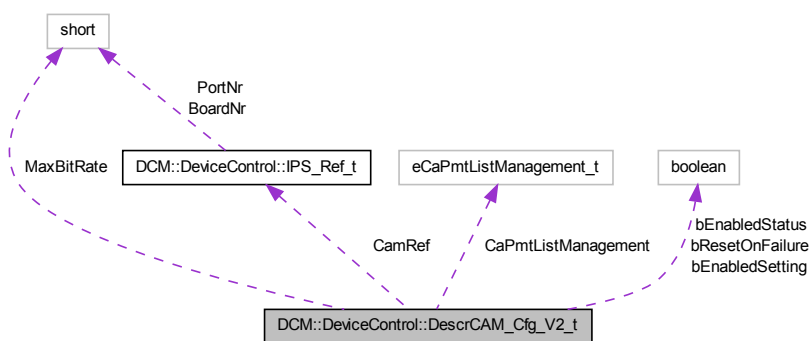
- [DCM.idl](#)

## 10.83 DCM::DeviceControl::DescrCAM\_Cfg\_V2\_t Struct Reference

Defines the configuration of the CAM itself.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescrCAM\_Cfg\_V2\_t:



## Public Attributes

- [IPS\\_Ref\\_t](#) **CamRef**  
*CAM identification.*
- boolean **bEnabledSetting**  
*true: enable CAM. requires a license to enable.*
- boolean **bEnabledStatus**  
*readonly enabled status. Can be different from enabled setting if e.g. after reboot the necessary licenses are missing.*
- boolean **bResetOnFailure**  
*true: reset CAM if descrambling fails on all services False: do not reset. Default value is true.*
- unsigned short **MaxBitRate**  
*In Mbps. Range: 72 .. 200. Default: 72.*
- [eCaPmtListManagement\\_t](#) **CaPmtListManagement**  
*CA PMT list management for updates towards CAM.*



## 10.83.1 Detailed Description

Defines the configuration of the CAM itself.

Definition at line 28531 of file DCM.idl.

The documentation for this struct was generated from the following file:

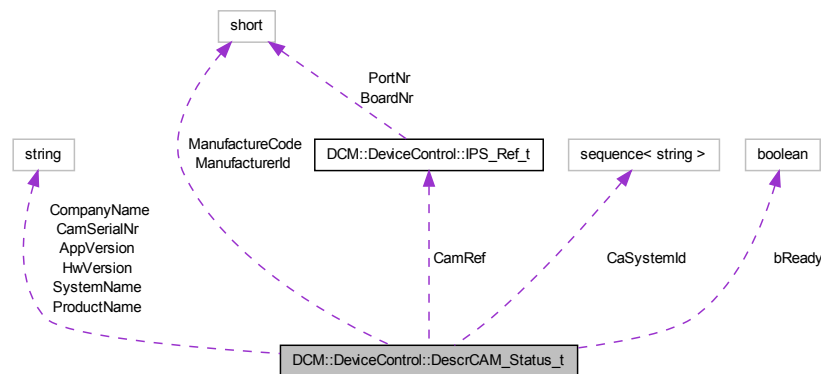
- [DCM.idl](#)

## 10.84 DCM::DeviceControl::DescrCAM\_Status\_t Struct Reference

Structure containing information about a CAM.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescrCAM\_Status\_t:



## Public Attributes

- [IPS\\_Ref\\_t](#) **CamRef**  
*CAM identification.*
- boolean **bReady**  
*initialized and ready for descrambling*
- string **SystemName**  
*system name*
- unsigned short **ManufacturerId**  
*manufacturer id*
- unsigned short **ManufactureCode**  
*manufacture code*
- string **CamSerialNr**  
*CAM serial number.*
- sequence< string > **CaSystemId**  
*supported CA System Ids*
- string **HwVersion**

- string `AppVersion`  
*CAM hardware version.*
- string `CompanyName`  
*CAM software version.*
- string `ProductName`  
*CAM company name.*
- string `ProductNumber`  
*CAM product name.*

### 10.84.1 Detailed Description

Structure containing information about a CAM.

Definition at line 28690 of file DCM.idl.

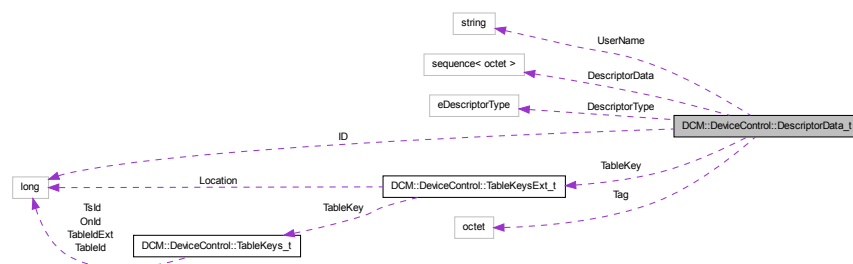
The documentation for this struct was generated from the following file:

- DCM.idl

## 10.85 DCM::DeviceControl::DescriptorData\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescriptorData\_t:



## Public Attributes

- TableKeysExt\_t TableKey
- eDescriptorType DescriptorType
- long ID
- string UserName
- octet Tag
- ByteStream DescriptorData

### 10.85.1 Detailed Description

Definition at line 7825 of file DCM.idl.

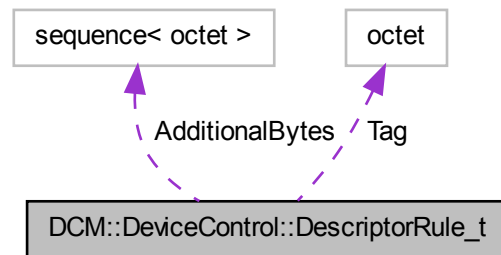
The documentation for this struct was generated from the following file:

- DCM.idl

## 10.86 DCM::DeviceControl::DescriptorRule\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescriptorRule\_t:



### Public Attributes

- `octet Tag`
- `ByteStream AdditionalBytes`

### 10.86.1 Detailed Description

Definition at line 7836 of file `DCM.idl`.

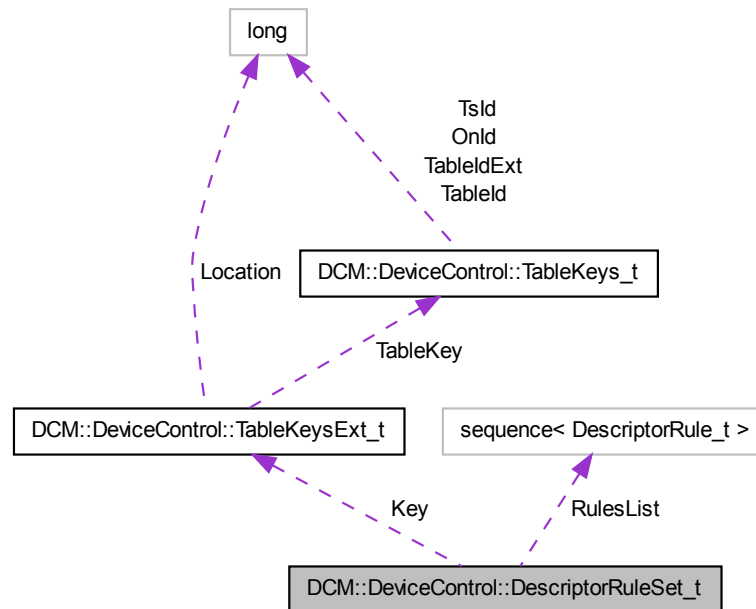
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.87 DCM::DeviceControl::DescriptorRuleSet\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescriptorRuleSet\_t:



#### Public Attributes

- [TableKeysExt\\_t Key](#)
- [DescriptorRuleList\\_t RulesList](#)

#### 10.87.1 Detailed Description

Definition at line 7843 of file DCM.idl.

The documentation for this struct was generated from the following file:

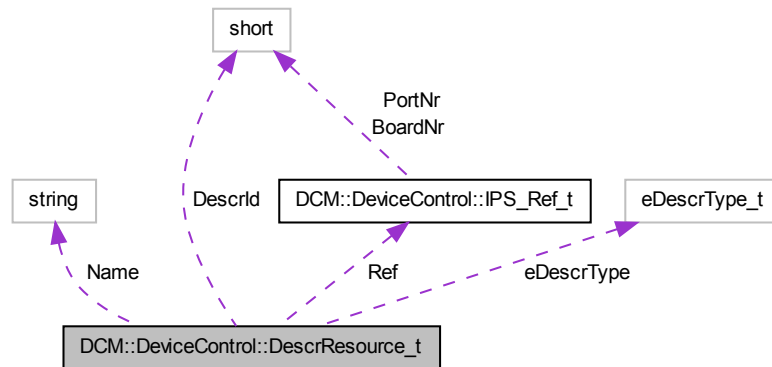
- [DCM.idl](#)

## 10.88 DCM::DeviceControl::DescrResource\_t Struct Reference

Structure containing identification information about the descrambling resource.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescrResource\_t:



### Public Attributes

- [DescrId\\_t DescrId](#)  
*"port number" of the descrambler.*
- [IPS\\_Ref\\_t Ref](#)  
*identification of descrambler in all other functions.*
- [eDescrType\\_t eDescrType](#)  
*type of descrambler*
- [string Name](#)  
*user friendly name of the descrambling resource. Default names are assigned by the [DCM](#), e.g. 'CAM 1', 'BISS'.*

#### 10.88.1 Detailed Description

Structure containing identification information about the descrambling resource.

All fields are read-only except the Name field.

Definition at line 28027 of file DCM.idl.

The documentation for this struct was generated from the following file:

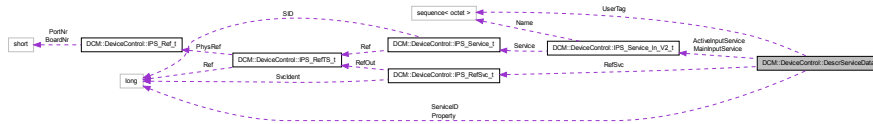
- [DCM.idl](#)

## 10.89 DCM::DeviceControl::DescrServiceData\_t Struct Reference

A structure with attributes of the service routed to the descrambler.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescrServiceData\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t RefSvc](#)  
*identifies the service on the descrambler*
- [ServiceId\\_t ServiceID](#)  
*service ID (for future use)*
- [DvbString\\_t UserTag](#)  
*a human readable user tag for the service. By default equal to the name of the input service, but made unique if necessary by [DescrServiceAddL\(\)](#).*
- unsigned long [Property](#)  
*Read only Bitmap used by GUI to display < Bit 0: Service present at input (true) or not (false). < Bit 1: TRUE if service can't be deleted < Bit 2: TRUE if service is scrambled (before descrambling) < Bit 3: TRUE if service is being descrambled by descrambler. < Bit 4: TRUE if service is in backup < Bit 5: TRUE if Service Loss Alarm is active. < Bit 6: TRUE if not-descrambled alarm is active. < Bit 7: TRUE if service is part of a TS in SFN or TS mode. < Other bits for future use.*
- [IPS\\_Service\\_In\\_V2\\_t MainInputService](#)  
*main input service*
- [IPS\\_Service\\_In\\_V2\\_t ActiveInputService](#)  
*active input service, e.g. when in backup*

### 10.89.1 Detailed Description

A structure with attributes of the service routed to the descrambler.

Definition at line 28079 of file DCM.idl.

The documentation for this struct was generated from the following file:

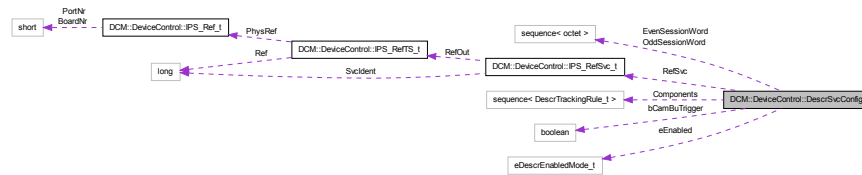
- [DCM.idl](#)

## 10.90 DCM::DeviceControl::DescrSvcConfig\_t Struct Reference

Defines how the service is descrambled.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescrSvcConfig\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t RefSvc](#)  
*identifies the virtual service*
- [eDescrEnabledMode\\_t eEnabled](#)  
*identifies if and how descrambling must be done*
- boolean [bCamBuTrigger](#)  
*true: when not descrambled, this service*
- [ByteStream EvenSessionWord](#)  
*session word for BISS with even parity.*
- [ByteStream OddSessionWord](#)  
*session word for BISS with odd parity.*
- [DescrTrackingRuleList\\_t Components](#)  
*non-empty if component level descrambling*

#### 10.90.1 Detailed Description

Defines how the service is descrambled.

The session words are only required for BISS descrambling and when the session word is configured on service level. The session word on service level overrules the session word on TS level, but only for the service (identified by RefSvc).

Definition at line 28443 of file DCM.idl.

The documentation for this struct was generated from the following file:

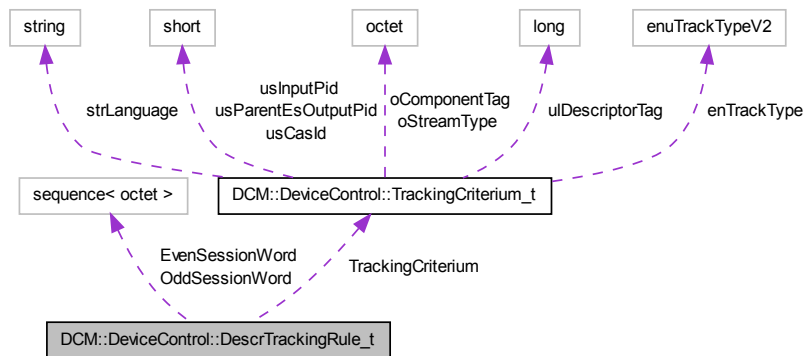
- [DCM.idl](#)

### 10.91 DCM::DeviceControl::DescrTrackingRule\_t Struct Reference

Defines a tracking rule for descrambling, including the BISS session word.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescrTrackingRule\_t:



### Public Attributes

- [TrackingCriterium\\_t TrackingCriterium](#)
- [ByteStream EvenSessionWord](#)  
*session word for BISS descrambling with even parity.*
- [ByteStream OddSessionWord](#)  
*session word for BISS descrambling with odd parity.*

### 10.91.1 Detailed Description

Defines a tracking rule for descrambling, including the BISS session word.

The BISS session word is optional, e.g. can be left empty for configuration of descrambling on a CAM. The session word also can be left empty if the session word is configured on a higher level, e.g. service or TS level. A session word configured on component level overrules any session word on service level or TS level for that specific component.

Definition at line 28417 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

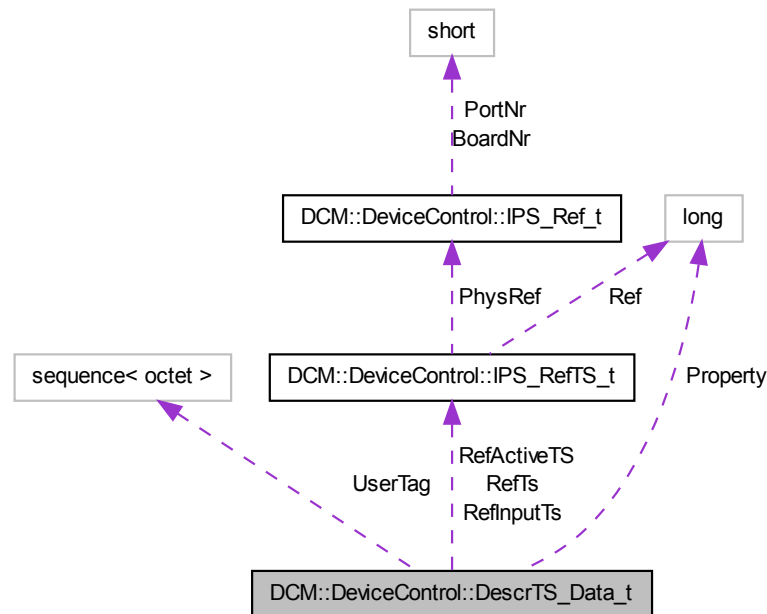
### 10.92 DCM::DeviceControl::DescrTS\_Data\_t Struct Reference

Structure with data of a TS added to a descrambler.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::DescrTS\_Data\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)  
the TS reference assigned by [DescrTS\\_Add\(\)](#)
- unsigned long [Property](#)  
Read only Bitmap used by GUI to display < Bit 0: TS present at input (true) or not (false). < Bit 1: TRUE if TS can't be deleted < Bit 2: at least one of the source input PIDs of this < TS is scrambled < Bit 3: TRUE if TS Loss Alarm is active. < Other bits for future use.
- [IPS\\_RefTS\\_t RefInputTs](#)  
Read only : Reference to the input TS that was used to create the TS on the descrambler.
- [IPS\\_RefTS\\_t RefActiveTS](#)  
Read only : Reference of the active input TS (for TS backup).
- [DvbString\\_t UserTag](#)  
A human readable user tag for the TS. [DescrTS\\_Add](#) will assign a unique default value.

### 10.92.1 Detailed Description

Structure with data of a TS added to a descrambler.

Definition at line 28196 of file DCM.idl.

The documentation for this struct was generated from the following file:

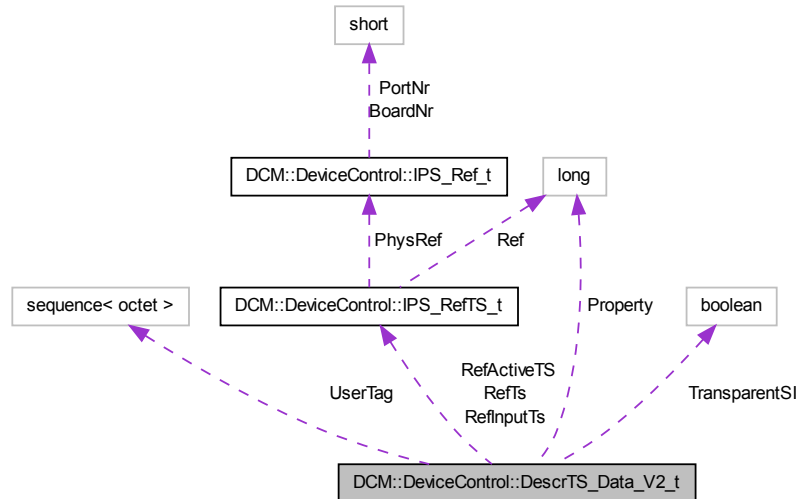
- [DCM.idl](#)

## 10.93 DCM::DeviceControl::DescrTS\_Data\_V2\_t Struct Reference

Structure with data of a TS added to a descrambler.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DescrTS\_Data\_V2\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)  
the TS reference assigned by [DescrTS\\_Add\(\)](#)
- unsigned long [Property](#)  
Read only Bitmap used by GUI to display < Bit 0: TS present at input (true) or not (false). < Bit 1: TRUE if TS can't be deleted < Bit 2: at least one of the source input PIDs of this < TS is scrambled < Bit 3: TRUE if TS Loss Alarm is active. < Other bits for future use.
- [IPS\\_RefTS\\_t RefInputTs](#)  
Read only : Reference to the input TS that was used to create the TS on the descrambler.
- [IPS\\_RefTS\\_t RefActiveTS](#)  
Read only : Reference of the active input TS (for TS backup).
- [DvbString\\_t UserTag](#)  
A human readable user tag for the TS. [DescrTS\\_Add](#) will assign a unique default value.
- boolean [TransparentSI](#)  
true: pass SI transparently (aka SFN mode) false: update SI (PMT, SDT, EIT) if descrambled (aka SI mode)  
default value is true

### 10.93.1 Detailed Description

Structure with data of a TS added to a descrambler.

**Version**

Release 12.0

Definition at line 28220 of file DCM.idl.

The documentation for this struct was generated from the following file:

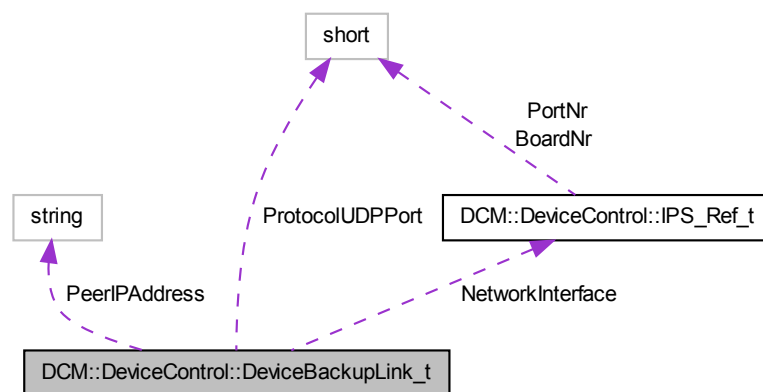
- [DCM.idl](#)

**10.94 DCM::DeviceControl::DeviceBackupLink\_t Struct Reference**

Configuration of a link between 2 devices for use with Device Backup.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DeviceBackupLink\_t:

**Public Attributes**

- [IPS\\_Ref\\_t](#) **NetworkInterface**  
Specify *BoardNr* = 0 and *PortNr* = 0 for the 10/100 management network interface and *PortNr* = 1 for the GbE C/A network interface.
- string [PeerIPAddress](#)  
IP address of the other *DCM*, as reachable via the specified network interface.
- unsigned short [ProtocolUDPPort](#)  
UDP port to be used by both *DCM*'s. Must be the same on both *DCM*'s for this link.

**10.94.1 Detailed Description**

Configuration of a link between 2 devices for use with Device Backup.

The primary link is always mandatory when heartbeat is used.

Definition at line 21119 of file DCM.idl.

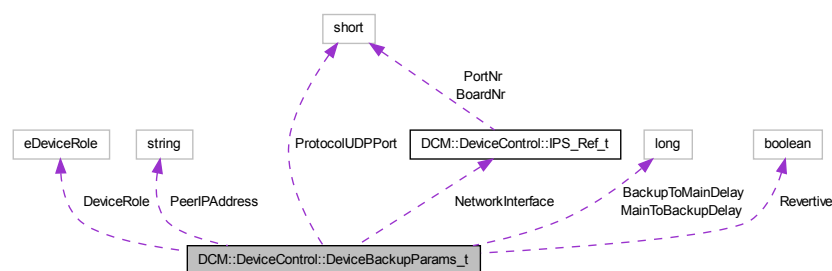
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.95 DCM::DeviceControl::DeviceBackupParams\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DeviceBackupParams\_t:



### Public Attributes

- [eDeviceRole](#) [DeviceRole](#)  
*Role of this device. Other settings are only valid if the role is not standalone.*
- [string](#) [PeerIPAddress](#)  
*IP Address of the other DCM.*
- [unsigned short](#) [ProtocolUDPPort](#)  
*UDP Port to be used by both DCM's. Must be the same value on both devices.*
- [IPS\\_Ref\\_t](#) [NetworkInterface](#)  
*Specify BoardNr = 0 and PortNr = 0 for the 10/100 management network interface and PortNr = 1 for the GbE C/A network interface.*
- [boolean](#) [Revertive](#)  
*True if the device should automatically revert to main when possible.*
- [unsigned long](#) [MainToBackupDelay](#)  
*Time in seconds to wait before switching to backup device, range 1-60 s.*
- [unsigned long](#) [BackupToMainDelay](#)  
*Time in seconds to wait before switching back to main device, range 0-60 s.*

### 10.95.1 Detailed Description

Definition at line 21135 of file DCM.idl.

The documentation for this struct was generated from the following file:

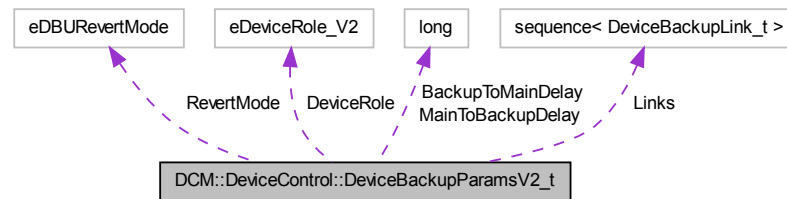
- [DCM.idl](#)

## 10.96 DCM::DeviceControl::DeviceBackupParamsV2\_t Struct Reference

Following combinations of Roles and Modes are valid:

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DeviceBackupParamsV2\_t:



### Public Attributes

- [eDeviceRole\\_V2](#) [DeviceRole](#)  
*Role of this device.*
- [DeviceBackupLinkList\\_t](#) [Links](#)  
*Links towards peer (0 in case of standalone)*
- [eDBURevertMode](#) [RevertMode](#)  
*Revertive mode.*
- unsigned long [MainToBackupDelay](#)  
*Time in seconds to wait before switching to backup device or deactivating, range 1-60 s.*
- unsigned long [BackupToMainDelay](#)  
*Time in seconds to wait before switching back to main device or reactivating, range 0-60 s.*

### 10.96.1 Detailed Description

Following combinations of Roles and Modes are valid:

- Standalone: None
- Main/Backup: None, Revertive, Floating
- Single: None, Revertive
- Live-Live: Revertive

Definition at line 21166 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.97 DCM::DeviceCallback Interface Reference

```
import "DCM.idl";
```

### Public Types

- typedef sequence< long > [LongStream](#)  
A sequence of longs.
- typedef sequence< [LongStream](#) > [NotifDataList](#)

### Public Member Functions

- void [Notify](#) (in string NotificationName, in [NotifDataList](#) EventDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
Notifies changes in the server that can be used as trigger.

#### 10.97.1 Detailed Description

Definition at line 32193 of file DCM.idl.

The documentation for this interface was generated from the following file:

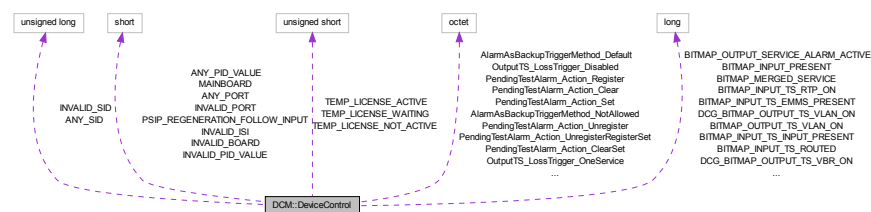
- [DCM.idl](#)

## 10.98 DCM::DeviceControl Interface Reference

The only interface of DCM to the outside world.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl:



### Classes

- struct [AC\\_t](#)  
Access Criteria.
- struct [AddPidsFromSplice\\_t](#)
- struct [AlarmTriggerRule\\_t](#)
- struct [AlternateSource\\_t](#)  
A definition of an alternate source.

- struct [AlternateSourceSettings\\_t](#)  
*All the settings concerning alternate sources for one output service.*
- struct [AltSrcBU\\_Setting\\_t](#)
- struct [AltSrcMergeActiveInSvc\\_t](#)
- struct [AltSrcMergedSetting\\_t](#)
- struct [ArpEntry\\_t](#)
- struct [ASI\\_BW\\_LimitData\\_t](#)
- struct [ASI\\_DTF\\_Ex\\_t](#)  
*Structure holding DTF input settings. The difference with the [ASI\\_DTF\\_t](#) structure is that this structure here doesn't hold the scrambling key directly. Instead, it holds a reference to a key in the list that can be set up using the [ASI\\_DTF\\_SetKeyList](#) method. Also the scrambling type can be selected to be odd or even.*
- struct [ASI\\_DTF\\_OutputTS\\_Ex\\_t](#)  
*Structure holding DTF output settings. The difference with the [ASI\\_DTF\\_OutputTS\\_t](#) is that this structure here provides for scrambling type, scrambling key indices and the possibility to overrule the input-level settings by one global setting.*
- struct [ASI\\_DTF\\_OutputTS\\_RDCS\\_t](#)  
*Structure holding DTF RDCS output settings. From V9.0 onwards.*
- struct [ASI\\_DTF\\_OutputTS\\_t](#)  
*Structure holding DTF output settings.*
- struct [ASI\\_DTF\\_RDCS\\_t](#)  
*Structure holding DTF RDCS input settings. From V9.0 onwards.*
- struct [ASI\\_DTF\\_ScramblingKey\\_t](#)
- struct [ASI\\_DTF\\_ScramblingKeyPair\\_t](#)  
*Structure holding DTF scrambling keys.*
- struct [ASI\\_DTF\\_t](#)  
*Structure holding DTF input settings.*
- struct [ASI\\_MirrorCfg\\_t](#)  
*Structure to define port mirroring for ASI.*
- struct [ASI\\_SFN\\_MKII\\_MDP\\_MultiplicationSettings\\_t](#)
- struct [ASI\\_SFN\\_MKII\\_RDCS\\_Settings\\_t](#)
- struct [ASI\\_SFN\\_MKII\\_TS\\_Output\\_Mode\\_t](#)
- struct [AsiFormatData\\_t](#)  
*Structure to set ASI format and output mode.*
- struct [BackupService\\_t](#)
- struct [BackupSrvTable\\_t](#)
- struct [BannerCfg\\_t](#)
- struct [BannerCfg\\_V2\\_t](#)
- struct [BitrateAlarmSetting\\_t](#)  
*Structure to pass payload and stuffing bitrate threshold alarm settings.*
- struct [BitRateMeasurement\\_t](#)  
*General structure to hold bitrate measurement data.*
- struct [BoardBitrateThreshold](#)  
*The bitrate threshold for video, audio and data service losses (board specific).*
- struct [BoardCfg\\_t](#)  
*Structure to get or set port information.*
- struct [BoardCfg\\_V2\\_t](#)  
*Structure to get or set port information.*
- struct [BoardDejitterCfg\\_t](#)

- struct [BoardFeatureUsage\\_t](#)  
*Contains the feature usage per board.*
- struct [BoardIdentification](#)  
*Information data as returned by [GetSystemId\(\)](#).*
- struct [BoardInfo\\_t](#)  
*Structure to return board configuration.*
- struct [BoardInfo\\_V2\\_t](#)  
*Structure to return board configuration.*
- struct [BoardTemperature\\_t](#)
- struct [ClearPidBitrates\\_t](#)
- struct [CofTrigger\\_t](#)  
*Structure used in the configuration of the triggers for card not operational failure alarms.*
- struct [Color\\_t](#)
- struct [CompactCaMode\\_t](#)  
*Compact CA descriptor setting (per input TS)*
- struct [ComponentMergeCriterium\\_t](#)
- struct [ComponentTag\\_t](#)
- struct [ComponentTemperature\\_t](#)
- struct [ComponentTrackRule\\_t](#)
- struct [ComponentTrackRule\\_V2\\_t](#)
- struct [CompPidES\\_t](#)  
*Identification of muxed pids.*
- struct [CompPidES\\_V2\\_t](#)
- struct [DCG\\_3D\\_pair\\_t](#)
- struct [DCG\\_AES\\_GeneratorConfig\\_t](#)
- struct [DCG\\_AudioPairInfo\\_t](#)
- struct [DCG\\_AudioSignalInfo\\_t](#)  
*Describes the audio signal information.*
- struct [DCG\\_BackupStream\\_t](#)
- struct [DCG\\_CompressionEnable\\_t](#)
- struct [DCG\\_GeneratorConfig\\_t](#)
- struct [DCG\\_HitlessSwitchOverEnable\\_t](#)
- struct [DCG\\_InputRTP\\_Stream\\_t](#)  
*Prior to version 9.10: Between 10 and 100 (default 60) A sequence of [DCG\\_InputTS\\_t](#) entries.*
- struct [DCG\\_InputRTP\\_Stream\\_V2\\_t](#)  
*Prior to version 9.10: Between 10 and 100 (default 60)*
- struct [DCG\\_InputRTP\\_Stream\\_V3\\_t](#)  
*Prior to version 9.10: Between 10 and 100 (default 60)*
- struct [DCG\\_InputTS\\_t](#)  
*Information of an incoming TS.*
- struct [DCG\\_JP2K\\_params\\_t](#)
- struct [DCG\\_JP2K\\_params\\_V2\\_t](#)
- struct [DCG\\_JP2K\\_params\\_V3\\_t](#)
- struct [DCG\\_OutputFecGBE\\_t](#)
- struct [DCG\\_OutputGBE\\_t](#)
- struct [DCG\\_OutputRTP\\_Stream\\_t](#)
- struct [DCG\\_OutputRTP\\_V2\\_Stream\\_t](#)
- struct [DCG\\_OutputTS\\_t](#)



*Information-Settings of an outgoing TS.*

- struct [DCG\\_Possible3GBoardCfg\\_t](#)
- struct [DCG\\_StreamBackupParams\\_t](#)
- struct [DCG\\_VBI\\_Defs\\_t](#)
- struct [Debug\\_DvbS2\\_InputTS\\_t](#)

*Information about a DVBS2 input TS, including the hardware index.*

- struct [Debug\\_Gbe\\_InputTS\\_t](#)
- struct [Debug\\_Gbe\\_OutputTS\\_t](#)

*Information-Settings of an outgoing TS.*

- struct [DefaultAutoPassRules](#)

*Default Service component behaviour.*

- struct [DefaultTrackRule\\_t](#)

*Structure for board default component tracking rules.*

- struct [DescrBISS\\_Cfg\\_t](#)

*Configuration of BISS descrambling.*

- struct [DescrCAM\\_BackupCfg\\_t](#)

*Structure used to configure CAM backup.*

- struct [DescrCAM\\_Cfg\\_t](#)

*Defines the configuration of the CAM itself.*

- struct [DescrCAM\\_Cfg\\_V2\\_t](#)

*Defines the configuration of the CAM itself.*

- struct [DescrCAM\\_Status\\_t](#)

*Structure containing information about a CAM.*

- struct [DescriptorData\\_t](#)
- struct [DescriptorRule\\_t](#)
- struct [DescriptorRuleSet\\_t](#)
- struct [DescrResource\\_t](#)

*Structure containing identification information about the descrambling resource.*

- struct [DescrServiceData\\_t](#)

*A structure with attributes of the service routed to the descrambler.*

- struct [DescrSvcConfig\\_t](#)

*Defines how the service is descrambled.*

- struct [DescrTrackingRule\\_t](#)

*Defines a tracking rule for descrambling, including the BISS session word.*

- struct [DescrTS\\_Data\\_t](#)

*Structure with data of a TS added to a descrambler.*

- struct [DescrTS\\_Data\\_V2\\_t](#)

*Structure with data of a TS added to a descrambler.*

- struct [DeviceBackupLink\\_t](#)

*Configuration of a link between 2 devices for use with Device Backup.*

- struct [DeviceBackupParams\\_t](#)
- struct [DeviceBackupParamsV2\\_t](#)

*Following combinations of Roles and Modes are valid:*

- struct [DPI\\_ChannelName\\_t](#)

*A spliceable channel name.*

- struct [DPI\\_ChannelSettings2\\_t](#)
- struct [DPI\\_ChannelSettings3\\_t](#)

- struct [DPI\\_ChannelSettings\\_t](#)
- struct [DPI\\_ChannelStatus\\_t](#)
- struct [DPI\\_CueRequest\\_t](#)
- struct [DPI\\_PidCouple\\_t](#)
- struct [DPI\\_PmtSpliceModeSetting\\_t](#)  
*Struct to set/get ePMT\_SpliceMode per channel.*
- struct [DPI\\_ShortChannelStatus\\_t](#)
- struct [DPI\\_SpliceRequest\\_t](#)
- struct [DPI\\_SpliceRequestTime\\_t](#)  
*A splice request is supposed to arrive a few seconds in advance of the actual splice time.*
- struct [DPI\\_Time\\_t](#)  
*UTC since jan 1 1970.*
- struct [DvbS2\\_InputTS\\_t](#)  
*DvbS2 information of an incoming DVB-S2 input stream.*
- struct [DvbS2\\_LookupTS\\_t](#)  
*Structure to find a specific TS by port and input stream identifier.*
- struct [DvbS2\\_RefTS\\_t](#)  
*Structure containing the looked-up transport stream for a given lookupTS.*
- struct [EasConfig\\_t](#)  
*Represents the configuration of an EAS proxy.*
- struct [EMM\\_Data\\_t](#)  
*Identification of EMMG EMMs.*
- struct [End2End\\_Delay\\_t](#)
- struct [EndDeviceEntry\\_t](#)
- struct [ES\\_TypeSetting\\_t](#)
- struct [EsEntry\\_t](#)
- struct [ETTV\\_ContentData\\_t](#)  
*Structure that contains status about the Content of an ETTV.*
- struct [ETTV\\_ContentSetting\\_t](#)  
*Structure combining service-id with settings.*
- struct [ETV\\_ApplicationIdent\\_t](#)
- struct [ETV\\_EissFilter\\_t](#)
- struct [ETV\\_Insertion\\_Settings\\_t](#)
- struct [ETV\\_Insertion\\_Settings\\_V2\\_t](#)
- struct [ETV\\_ManipulationSettings\\_t](#)
- struct [ETV\\_ManipulationSettings\\_V2\\_t](#)
- struct [ETV\\_Primary\\_Settings\\_t](#)
- struct [ETV\\_Primary\\_Settings\\_V2\\_t](#)
- struct [ExtIpServiceCtrl](#)
- struct [FCS\\_Scte35\\_CommandSelect\\_t](#)
- struct [Feature\\_t](#)
- struct [FeatureUsage\\_t](#)  
*Represents the license usage count per feature.*
- struct [FEC\\_Dec\\_Setting\\_t](#)  
*FEC decoder settings.*
- struct [FEC\\_Dec\\_Statistics\\_t](#)  
*FEC decoder statistics.*
- struct [FEC\\_Dec\\_Status\\_t](#)

- *FEC decoder status.*
- struct [FEC\\_Enc\\_ErrorGen\\_t](#)
- *FEC error generation parameters.*
- struct [FEC\\_Enc\\_Overhead\\_t](#)
- *Bitrate overhead, due to FEC encoding.*
- struct [FEC\\_Enc\\_Setting\\_t](#)
- *FEC encoder settings.*
- struct [FEC\\_Enc\\_Setting\\_V2\\_t](#)
- *FEC encoder settings.*
- struct [FontCfg\\_t](#)
- struct [ForbiddenPidRange\\_t](#)
- struct [GbEFramesRecv\\_t](#)
- struct [GbEFramesTrans\\_t](#)
- struct [GbeIO\\_IP\\_Settings\\_t](#)
- struct [GbEPortStatsEntry\\_t](#)
- struct [GbEStatisticsEntry\\_t](#)
- struct [GPI\\_Settings\\_t](#)
- struct [GPI\\_StatusControl\\_t](#)
- struct [GPS\\_Settings\\_t](#)
- struct [GPS\\_Status\\_t](#)
- struct [HitlessMergeSetting\\_t](#)
- *Hitless merge input TS settings.*
- struct [IGMPv2MulticastGroup\\_t](#)
- struct [IGMPv3Group\\_t](#)
- struct [IIOP\\_SubTable\\_t](#)
- *Structure containing the properties a SubTable provisioned via IIOP.*
- struct [InEMM\\_Ref\\_t](#)
- *Identification of which PID to be created/deleted. Note this is duplicated by RefPid\_t but must remain for backwards compatability.*
- struct [InPID\\_Data\\_t](#)
- *Identification of which PID to be (un)blocked.*
- struct [InPort\\_8VSB\\_Config\\_t](#)
- *Represents the 8VSB input port specific settings.*
- struct [InPort\\_8VSB\\_Statistics\\_t](#)
- *Defines the statistics that can be retrieved per 8VSB input port.*
- struct [InPort\\_8VSB\\_TuningParams\\_t](#)
- *Tuning parameters for an 8VSB input port.*
- struct [InPort\\_DvbS2\\_Counters\\_t](#)
- *Structure containing the different counters per DVB S2 port.*
- struct [InPort\\_DvbS2\\_LncCfg\\_t](#)
- *Structure used to configure the DVB S2 LNC.*
- struct [InPort\\_DvbS2\\_PortConfig\\_t](#)
- *Structure used to configure single stream or multi-stream mode per port.*
- struct [InPort\\_DvbS2\\_Status\\_t](#)
- *Structure used to retrieve status information of a DVB S2 port.*
- struct [InPort\\_DvbS2\\_TunerCfg\\_t](#)
- *Structure used to configure the DVB S2 tuner.*
- struct [InTS\\_AES\\_Statistic\\_t](#)

- struct [InTS\\_CompactCaMode\\_t](#)  
*Compact CA descriptor settings for specific TS.*
- struct [InTS\\_FEC\\_Dec\\_DefRuleSetting\\_t](#)  
*FEC decoder default rule settings.*
- struct [InTS\\_FEC\\_Dec\\_Setting\\_t](#)  
*FEC encoder settings for specific TS.*
- struct [InTS\\_FEC\\_Dec\\_Statistics\\_t](#)  
*FEC decoder statistics for specific TS.*
- struct [InTS\\_FEC\\_Dec\\_Status\\_t](#)  
*FEC decoder status for specific TS.*
- struct [InTS\\_HitlessMergeSetting\\_t](#)  
*Hitless merge settings for specific TS.*
- struct [InTS\\_IPI\\_Settings\\_t](#)  
*Information to change the IndexPacketInterpreter settings of an incoming TS.*
- struct [InTS\\_PriorityBit\\_t](#)  
*Information to change the priority bit of the MPEG packets of an incoming TS.*
- struct [InTS\\_Statistic\\_t](#)
- struct [InTS\\_TimeBaseSelectionMode\\_t](#)
- struct [InTS\\_TimeBaseSelectionMode\\_V2\\_t](#)
- struct [InTsExistenceReasons\\_t](#)  
*Input Transport stream reason for existence bitmap.*
- struct [IP\\_Route\\_t](#)
- struct [IP\\_Route\\_t\\_V2](#)
- struct [IP\\_Subnet\\_t](#)
- struct [IpCfg\\_t](#)
- struct [IPI\\_Settings\\_t](#)
- struct [IPS\\_ChangeInputTS\\_t](#)  
*Information to change an incoming TS.*
- struct [IPS\\_Gbe\\_InputTS\\_t](#)  
*Gbe information of an incoming TS.*
- struct [IPS\\_In\\_ECMSettings\\_t](#)
- struct [IPS\\_In\\_ESSettings\\_t](#)
- struct [IPS\\_In\\_ServiceComponents\\_t](#)
- struct [IPS\\_InPID\\_Data\\_t](#)
- struct [IPS\\_InPID\\_Data\\_V2\\_t](#)
- struct [IPS\\_InputTS\\_t](#)  
*Information of an incoming TS.*
- struct [IPS\\_LanguageSettings\\_t](#)
- struct [IPS\\_LookupTS\\_t](#)  
*Structure to find a specific TS by IP-address and UDP port.*
- struct [IPS\\_MergedInService\\_t](#)
- struct [IPS\\_Out\\_ECMSettings\\_t](#)
- struct [IPS\\_Out\\_ESSettings\\_t](#)
- struct [IPS\\_Out\\_ESSettings\\_V2\\_t](#)
- struct [IPS\\_Out\\_PIDSettings\\_t](#)
- struct [IPS\\_Out\\_ServiceComponents\\_t](#)
- struct [IPS\\_Out\\_ServiceComponents\\_V2\\_t](#)
- struct [IPS\\_OutPID\\_Data2\\_t](#)

- struct [IPS\\_OutPID\\_Data\\_t](#)  
*Used for PID passing by [IPS\\_OutPID\\_AddL\(\)](#), [IPS\\_OutPID\\_GetL\(\)](#) and [IPS\\_OutPID\\_DeleteL\(\)](#)*
- struct [IPS\\_OutPID\\_Sync\\_t](#)
- struct [IPS\\_OutPID\\_Sync\\_V2\\_t](#)
- struct [IPS\\_OutputTS\\_LT\\_t](#)
- struct [IPS\\_OutputTS\\_LT\\_V2\\_t](#)
- struct [IPS\\_OutputTS\\_t](#)
- struct [IPS\\_OutputTS\\_V2\\_t](#)  
*Information-Settings of an outgoing TS.*
- struct [IPS\\_OutServiceSync\\_t](#)
- struct [IPS\\_OutServiceSync\\_V2\\_t](#)
- struct [IPS\\_OutTS\\_RTP\\_t](#)
- struct [IPS\\_Ref\\_t](#)  
*General location of a physical or virtual port.*
- struct [IPS\\_ReferenceTS\\_t](#)  
*Structure to find a specific TS by IP-address and UDP port.*
- struct [IPS\\_RefPid\\_t](#)  
*Note RefPid\_t is effectively a copy of [InEMM\\_Ref\\_t](#) but that must remain for compatability.*
- struct [IPS\\_RefSvc\\_t](#)  
*A reference to a service.*
- struct [IPS\\_RefTS\\_t](#)  
*General location of a TS.*
- struct [IPS\\_SDT\\_Data\\_t](#)  
*Structure that contains data about the Service Description Table of a service.*
- struct [IPS\\_Serv\\_Dest\\_t](#)
- struct [IPS\\_Service\\_In\\_t](#)  
*Incoming service information.*
- struct [IPS\\_Service\\_In\\_V2\\_t](#)  
*A definition of an input service as used on the output.*
- struct [IPS\\_Service\\_t](#)  
*SID reference.*
- struct [IPS\\_ServiceData\\_Out\\_t](#)
- struct [IPS\\_ServiceData\\_Out\\_V2\\_t](#)  
*Extended information about an output service.*
- struct [IPS\\_ServiceData\\_Out\\_V3\\_t](#)  
*Extended information about an output service.*
- struct [IPS\\_UDP\\_Socket\\_t](#)  
*The socket describes the IP address & UDP port on which a TS is played out.*
- struct [IPSecHost](#)
- struct [IpServiceDisplayData](#)  
*Description of an active or listening port.*
- struct [JclInitialValue\\_t](#)  
*JCL initial value for Hitachi.*
- struct [JclSystemId\\_t](#)  
*JCL system ID for Hitachi.*
- struct [LicenseValidation\\_t](#)
- struct [LogoCfg\\_t](#)

- struct [LogoCfgFileNumber\\_t](#)
- struct [MaximumLogoSize\\_t](#)
- struct [MergeCriterium\\_t](#)
- struct [MergedESDescriptorData\\_t](#)
- struct [MessageBufferInfo](#)
- struct [MessageSetting](#)
  - Message settings.*
- struct [MFPB\\_AAC\\_AudioSettings\\_t](#)
  - AAC audio processing settings.*
- struct [MFPB\\_AacAudioCfg\\_t](#)
  - Configuration settings for the AAC audio settings of a service.*
- struct [MFPB\\_AudioDecode\\_t](#)
  - Audio decode settings together with fields identifying the Audio component they're for.*
- struct [MFPB\\_AudioDecodeCfg\\_t](#)
- struct [MFPB\\_AudioDecodeExtraAACCfg\\_t](#)
  - Configuration for extra AAC decoder settings per service.*
- struct [MFPB\\_AudioDecodeExtraAACSettings\\_t](#)
  - Extra AAC decoder settings per audio ES.*
- struct [MFPB\\_AudioDecodeExtraDolbyCfg\\_t](#)
  - Configuration for extra Dolby decoder settings per service.*
- struct [MFPB\\_AudioDecodeExtraDolbySettings\\_t](#)
  - Extra Dolby decoder settings per audio ES.*
- struct [MFPB\\_AudioDecodeExtraMPEGL2Cfg\\_t](#)
  - Configuration for extra MPEG1-L2 decoder settings per service.*
- struct [MFPB\\_AudioDecodeExtraMPEGL2Settings\\_t](#)
  - Extra MPEG1-L2 decoder settings per audio ES.*
- struct [MFPB\\_AudioEncode\\_t](#)
  - Audio encode settings together with field identifying the Audio component they're for.*
- struct [MFPB\\_AudioEncodeCfg\\_t](#)
- struct [MFPB\\_AudioEncodeSettings\\_t](#)
  - Audio encode settings.*
- struct [MFPB\\_AudioInformation\\_t](#)
- struct [MFPB\\_AudioServiceInformation\\_t](#)
- struct [MFPB\\_AudioStatus\\_t](#)
- struct [MFPB\\_BoardCfg\\_t](#)
  - Structure to set/get transcoder board configuration.*
- struct [MFPB\\_Component\\_t](#)
- struct [MFPB\\_DD\\_MetaDecStatus\\_t](#)
  - Dolby meta data status on the decoder side for a specific component.*
- struct [MFPB\\_DD\\_MetaStatus\\_t](#)
  - Dolby meta data status for a specific component.*
- struct [MFPB\\_Dolby\\_AudioSettings\\_t](#)
  - Dolby audio processing settings.*
- struct [MFPB\\_Dolby\\_AudioSettings\\_V2\\_t](#)
  - Dolby audio processing settings.*
- struct [MFPB\\_DolbyAudioCfg\\_t](#)
  - Configuration settings for the Dolby audio settings of a service.*

- struct [MFPB\\_DolbyAudioCfg\\_V2\\_t](#)  
*Configuration settings for the Dolby audio settings of a service.*
- struct [MFPB\\_EngineUnitCfg\\_t](#)
- struct [MFPB\\_ES\\_CaptionInfo\\_t](#)  
*Configuration settings for the Caption Service Descriptor of an ES.*
- struct [MFPB\\_MetaDataCfg\\_t](#)  
*audio meta data settings for a specific component.*
- struct [MFPB\\_MPEG2FramePicturesCfg\\_t](#)
- struct [MFPB\\_MPEGL2\\_AudioSettings\\_t](#)  
*MPEG1-L2 audio processing settings.*
- struct [MFPB\\_MPEGL2AudioCfg\\_t](#)  
*Configuration settings for the MPEG1-L2 audio settings of a service.*
- struct [MFPB\\_MultiResABR\\_t](#)  
*Note: it is required that FragmentLength and SegmentLength are a multiple of one another.*
- struct [MFPB\\_MultiResVideoEncode\\_t](#)  
*MultiRes video encode settings together with field identifying the video component they're for.*
- struct [MFPB\\_MultiResVideoEncodeCfg\\_t](#)
- struct [MFPB\\_MultiResVideoEncodeSettings\\_t](#)  
*MultiResolution Video encode settings.*
- struct [MFPB\\_ServiceCfg\\_t](#)
- struct [MFPB\\_ServiceComponents\\_t](#)
- struct [MFPB\\_ServiceDD\\_MetaDecStatus\\_t](#)  
*Dolby meta data status on the decoder side for a specific service.*
- struct [MFPB\\_ServiceMetaDataCfg\\_t](#)  
*audio meta data settings for a specific service.*
- struct [MFPB\\_ServiceTrackingID\\_t](#)
- struct [MFPB\\_Svc\\_CaptionInfo\\_t](#)  
*Configuration settings for the Caption Service Descriptor(s) of a service.*
- struct [MFPB\\_VideoDecode\\_t](#)  
*Video decode settings together with fields identifying the video component they're for.*
- struct [MFPB\\_VideoDecodeCfg\\_t](#)
- struct [MFPB\\_VideoEncode\\_t](#)  
*Video encode settings together with field identifying the video component they're for.*
- struct [MFPB\\_VideoEncodeCfg\\_t](#)
- struct [MFPB\\_VideoEncodeCfgV2\\_t](#)
- struct [MFPB\\_VideoEncoderTemplate\\_t](#)
- struct [MFPB\\_VideoEncodeSettings\\_t](#)  
*Video encode settings.*
- struct [MFPB\\_VideoEncodeSettingsV2\\_t](#)  
*Video encode settings.*
- struct [MFPB\\_VideoEncodeV2\\_t](#)  
*Video encode settings together with field identifying the video component they're for.*
- struct [MFPB\\_VideoInformation\\_t](#)
- struct [MFPB\\_VideoResolution\\_t](#)
- struct [MFPB\\_VideoServiceInformation\\_t](#)
- struct [MFPB\\_VideoStatus\\_t](#)
- struct [MIP\\_Settings\\_t](#)
- struct [MIP\\_SyncTargetSettings\\_t](#)

- struct [MM\\_ID\\_t](#)  
*Alarm reference (M&M, 1:1 device backup).*
- struct [MM\\_Measurement](#)
- struct [MM\\_MeasurementStat](#)
- struct [MM\\_Message](#)
- struct [MM\\_MessageMainPart](#)  
*Structure to pass Messages from the device to whatever client.*
- struct [MM\\_MessageSetting](#)  
*Measurement message settings.*
- struct [MM\\_MessageTypeErrorInterval](#)
- struct [MM\\_MessageTypeSetting](#)  
*Message type settings.*
- struct [MM\\_TypeInfo](#)
- struct [MM\\_TypeInfo\\_V2](#)  
*V2 of [MM\\_TypeInfo](#): BackupTriggerMethod is added.*
- struct [ModuleExceptionTrace\\_t](#)  
*Structure to get or set Debug Trace Level information.*
- struct [MultipleStringElement\\_t](#)
- struct [MultipleStringSegment\\_t](#)  
*Multiple String: ATSC string representation.*
- struct [NegotiatedGbePortSpeed\\_t](#)
- struct [NicTeam\\_MemberStatus\\_t](#)  
*Structure describing the status of a NIC team member.*
- struct [NicTeam\\_Settings](#)  
*Structure to get or set NIC team configuration.*
- struct [NicTeamStatus](#)  
*Structure to get NIC team status.*
- struct [NotifData\\_t](#)
- struct [NTP\\_Info\\_t](#)
- struct [NTP\\_Stats\\_t](#)
- struct [OutputTsLossTriggerBitmapPerTs\\_t](#)
- struct [OutputTsLossTriggerPerTs\\_t](#)
- struct [OutTS\\_AlarmSetting\\_t](#)  
*Structure to pass payload and stuffing bitrate threshold alarm settings to one specific TS.*
- struct [OutTS\\_FEC\\_Enc\\_DefSetting\\_t](#)  
*Default FEC encoder settings (to be applied for new TS's)*
- struct [OutTS\\_FEC\\_Enc\\_ErrorGen\\_t](#)  
*FEC error generation for specific TS.*
- struct [OutTS\\_FEC\\_Enc\\_Overhead\\_t](#)  
*Bitrate overhead for specific TS.*
- struct [OutTS\\_FEC\\_Enc\\_Setting\\_t](#)  
*FEC encoder settings for specific TS.*
- struct [OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_t](#)  
*FEC encoder settings for specific TS.*
- struct [OutTS\\_InsertCATDescriptors\\_t](#)
- struct [OutTS\\_NitInPat\\_t](#)  
*NIT in PAT setting for specific TS.*



- struct [OutTS\\_PsipEitStartPid\\_t](#)
- struct [OutTS\\_PsipEttStartPid\\_t](#)
- struct [OutTS\\_PsipEttvPid\\_t](#)
- struct [OutTS\\_SrcAddr\\_t](#)

*Source Address parameters for an OutTS.*

- struct [OutTS\\_SrcAddr\\_V2\\_t](#)
- struct [OutTS\\_SttTimeZone\\_t](#)

*Transport stream specific STT time zone setting.*

- struct [OutTS\\_TOS\\_t](#)
- struct [OutTS\\_TTL\\_t](#)
- struct [OutTS\\_UdpSize\\_t](#)
- struct [OutTS\\_VBR\\_t](#)
- struct [OutTS\\_VLAN\\_t](#)
- struct [OutTsServiceLocationAdded\\_t](#)

*Transport stream specific "Service Location Added" setting parameters.*

- struct [OutTsStandard\\_t](#)

*Transport stream specific Output TS Standard setting parameters.*

- struct [PacketIndexerSettings\\_t](#)
- struct [PcrSetting\\_t](#)
- struct [PCTM\\_PacketCounters\\_t](#)

*Packet counter values.*

- struct [PCTM\\_StreamPacketCounters\\_t](#)

*Packet counters of one stream.*

- struct [PCTM\\_StreamThresholdSettings\\_t](#)

*Threshold settings for the packet types of one stream.*

- struct [PCTM\\_ThresholdValues\\_t](#)

*Threshold settings.*

- struct [PortFilter\\_t](#)
- struct [PortTsSvcProps\\_t](#)
- struct [PriorityBitMode\\_t](#)

*Compact CA descriptor setting (per input TS)*

- struct [PSIGSubTable\\_t](#)

*Structure that describes a PSIG provision.*

- struct [PsipMgtInfo\\_t](#)
- struct [PsipUpdateLocation\\_t](#)
- struct [PsipUpdateRule\\_t](#)

*Definition of a PsipUpdate Rule Rule: number uniquely defining a rule 0: Add/update descriptor 2: Remove descriptor (this list should be updated when more rules are supported) RuleName: actual meaning of the rule (see above) Location: 0x02, 0xFFFFFFFF: PMT 0xCB, start-time: PsipEIT event RuleData: extra data of rule in readable form (UTF-8): Add/update descriptor: new descriptor in hex-string.*

- struct [Ref\\_SI\\_table\\_ext\\_t](#)
- struct [RefProcessorEngineUnit\\_t](#)

*Identify a processing engine unit of a processor board.*

- struct [ResourcesLoad\\_t](#)

*Resource loads.*

- struct [RestoreOption](#)

*Single settings restore option.*

- struct [RestoreOption\\_V2](#)

*Single settings restore option.*

- struct [RipBoardSettings](#)
- struct [RipInterfaceSettings](#)
- struct [RipSettings\\_t](#)
- struct [RipTsSettings\\_t](#)
- struct [RMX\\_GroupSettings\\_t](#)

*Realignment Mux group settings.*

- struct [RMX\\_GroupSvc\\_t](#)

*A service that is part of a Realignment Mux group.*

- struct [RMX\\_GroupSvcs\\_t](#)

*A set of services belonging to the same Realignment Mux group.*

- struct [RoutingData\\_t](#)
- struct [RoutingStatusRecord\\_t](#)

*Structure that contains information about one error that occurred during routing file upload (pre-config - IPS\_ProcessRoutingFile)*

- struct [ScriptEntry\\_t](#)
- union [Scte35CommandAndData\\_t](#)

*Union containing data structures of SCTE-35 commands.*

- struct [Scte35Data\\_DCM\\_input\\_switch\\_t](#)

*The data struct for SCTE-35 command eDCM\_input\_switch.*

- struct [Scte35Data\\_Keyer\\_config\\_t](#)

*The data struct for SCTE-35 command eKeyer\_config.*

- struct [Scte35Data\\_Keyer\\_t](#)

*The data struct for SCTE-35 command eKeyer\_on\_or\_off.*

- struct [Scte35Data\\_Local\\_avail\\_t](#)

*The data struct for SCTE-35 command eLocal\_avail\_enable\_or\_disable.*

- struct [Scte35Data\\_Logo\\_enable\\_t](#)

*The data struct for SCTE-35 command eLogo\_enable\_or\_disable.*

- struct [Scte35Data\\_Network\\_active\\_t](#)

*The data struct for SCTE-35 command eNetwork\_feed\_active\_or\_inactive.*

- struct [Scte35Data\\_REDUS\\_Switch\\_Single\\_t](#)

*The data struct for SCTE-35 command eREDUS\_switch\_single.*

- struct [Scte35Data\\_REDUS\\_Switch\\_t](#)

*The data struct for SCTE-35 command eREDUS\_switch.*

- struct [Scte35Data\\_Select\\_now\\_t](#)

*The data struct for SCTE-35 command eSelect\_now.*

- struct [Scte35Source\\_t](#)
- struct [Scte35ToggleOutOfNetwork\\_t](#)
- struct [SelectionListEntry\\_t](#)
- struct [Service\\_AutoPassRules](#)

*Service component behaviour.*

- struct [ServiceBackupParams2\\_t](#)
- struct [ServiceBackupParams\\_t](#)
- struct [ServiceBitRateMeasurement\\_t](#)
- struct [ServiceBitRateSample\\_t](#)
- struct [ServiceBlockCAInfo\\_t](#)

*Outgoing service information.*

- struct [ServiceCompBitRateMeasurement\\_t](#)

- struct [ServiceCompSettings\\_t](#)
- struct [ServiceES\\_t](#)
- struct [ServiceLossTrigger\\_t](#)
- struct [ServicePIDStatus\\_t](#)

*Identification of the service(s) to (un)block PIDs in.*

- struct [SI\\_AutoPassRules\\_t](#)
- struct [SI\\_Table\\_GenerationMode\\_t](#)

*Generation mode for SI tables.*

- struct [SI\\_Table\\_Period\\_t](#)
- struct [SlateData\\_t](#)
- struct [SlateService\\_t](#)
- struct [SMX36\\_AlgorithmIdentifier\\_t](#)
- struct [SMX36\\_Community\\_t](#)
- struct [SMX36\\_Encoder\\_t](#)
- struct [SMX36\\_NetworkQoS\\_t](#)
- struct [SMX36\\_Pool\\_t](#)
- struct [SMX36\\_Pool\\_V2\\_t](#)
- struct [SMX36\\_StatmuxController\\_t](#)
- struct [SMX36\\_VSE\\_CalculatedRates\\_t](#)
- struct [SMX36\\_VSE\\_t](#)
- struct [SMX36\\_VSE\\_V2\\_t](#)

*Implemented in V9.10.*

- struct [SMX36\\_VSE\\_V3\\_t](#)

*Implemented in V10.20.*

- struct [SMX36\\_VSE\\_V4\\_t](#)

*Implemented in V11.00.*

- struct [SMX36\\_VSEBackup\\_t](#)
- struct [SMX36\\_VSEBackup\\_V2\\_t](#)
- struct [SMX36\\_VSEParams\\_t](#)
- struct [SMX36\\_VSEParams\\_V2\\_t](#)

*For URC mode (planned 10.20)*

- struct [SMX\\_Encoder\\_t](#)
- struct [SMX\\_EncRef\\_t](#)
- struct [SMX\\_EncVideoBitRate\\_t](#)
- struct [SMX\\_MFP\\_Group\\_Svc\\_t](#)

*Services in a group.*

- struct [SMX\\_MFP\\_Group\\_SvcSettings\\_t](#)

*Service settings within a group.*

- struct [SMX\\_MFP\\_Group\\_SvcSettings\\_V2\\_t](#)

*Service settings within a group.*

- struct [SMX\\_MFP\\_Group\\_TSs\\_t](#)

*List of TS on a Statmux group, used for deleting TS from gorup.*

- struct [SMX\\_MFP\\_Group\\_TSSettings\\_t](#)

*List of TS settings on Statmux group Can be used to add/get TS to/from a group.*

- struct [SMX\\_MFP\\_GroupSettings\\_t](#)

*Statmux group settings The Type of the SMXGroup is important concerning further behavior and meanings of the different fields.*

- struct [SMX\\_MFP\\_SvcSettings\\_t](#)

*Statmux setting of a service.*

- struct [SMX\\_MFP\\_SvcSettings\\_V2\\_t](#)

*Statmux setting of a service, Version 2.*

- struct [SMX\\_MFP\\_TsSettings\\_t](#)

*Data linked with a TS in statmux context.*

- struct [SMX\\_Pool\\_Calculate\\_t](#)
- struct [SMX\\_PoolRef\\_t](#)
- struct [SMX\\_Service\\_t](#)
- struct [SMX\\_ServiceRef\\_t](#)
- struct [SMX\\_StatMuxPool](#)
- struct [SMX\\_StatMuxPool\\_V2](#)
- struct [SNMPCCommunity](#)

*SNMP read or write community settings.*

- struct [SrcAddr\\_t](#)

*Structure to specify some Ip header parameters for outgoing GbE packets.*

- struct [Svc\\_PsipEitRegenerationInfo\\_t](#)

*Structure combining service information with the number of regenerated PSIP-EIT subtables.*

- struct [Svc\\_PsipEttRegenerationInfo\\_t](#)

*Structure combining service information with the number of regenerated PSIP-ETT subtables.*

- struct [SvcOutES\\_TypeSetting\\_t](#)
- struct [SvcOutPsipUpdateRule\\_t](#)
- struct [SvcOutStreamingSetting\\_t](#)
- struct [Table\\_Sync\\_Info\\_t](#)

*Structure defining the parameters for time sync via SI table acquisition.*

- struct [TableGenerationData\\_t](#)
- struct [TableGenerationData\\_V2\\_t](#)
- struct [TableKeys\\_t](#)
- struct [TableKeysExt\\_t](#)
- struct [TC\\_Audio\\_t](#)
- struct [TC\\_AudioCfg\\_t](#)
- struct [TC\\_AudioInformation\\_t](#)
- struct [TC\\_AudioServiceInformation\\_t](#)
- struct [TC\\_AudioSettings\\_t](#)
- struct [TC\\_AudioStatus\\_t](#)
- struct [TC\\_Banner\\_t](#)
- struct [TC\\_Banner\\_V2\\_t](#)
- struct [TC\\_BannerSettings\\_t](#)
- struct [TC\\_BannerStatus\\_t](#)
- struct [TC\\_BoardCfg\\_t](#)
- struct [TC\\_BoardCfg\\_V2\\_t](#)

*Structure to set/get transcoder board configuration.*

- struct [TC\\_CaptionInfo\\_t](#)

*Configuration settings for a Closed Caption Service.*

- struct [TC\\_Component\\_t](#)
- struct [TC\\_DependantQuestion\\_t](#)
- struct [TC\\_ES\\_CaptionInfo\\_t](#)

*Configuration settings for the Caption Service Descriptor of an ES.*

- struct [TC\\_Logo\\_t](#)
- struct [TC\\_LogoCfg\\_t](#)

- struct [TC\\_LogoDisplay\\_t](#)
- struct [TC\\_LogoKeyerID\\_t](#)
- struct [TC\\_LogoSetting\\_t](#)
- struct [TC\\_Pip\\_t](#)
- struct [TC\\_PipCfg\\_t](#)
- struct [TC\\_PipSettings\\_t](#)
- struct [TC\\_PossibleBoardCfg\\_t](#)
- struct [TC\\_PossibleBoardCfg\\_V2\\_t](#)

*Structure to get possible board configurations for a transcoder board.*

- struct [TC\\_Question\\_t](#)
- struct [TC\\_ServiceBannerStatus\\_t](#)
- struct [TC\\_ServiceCfg\\_t](#)
- struct [TC\\_ServiceComponents\\_t](#)
- struct [TC\\_ServiceData\\_t](#)

*Structure with service data for a transcoder board.*

- struct [TC\\_ServiceDataV2\\_t](#)

*Structure with service data for a transcoder board.*

- struct [TC\\_ServiceLogoCfgID\\_t](#)
- struct [TC\\_ServiceLogoDisplay\\_t](#)
- struct [TC\\_ServiceTrackingID\\_t](#)
- struct [TC\\_Svc\\_CaptionInfo\\_t](#)

*Configuration settings for the Caption Service Descriptor(s) of a service.*

- struct [TC\\_Video\\_t](#)

*Video transcode settings together with fields identifying the video component they're for.*

- struct [TC\\_VideoCfg\\_t](#)
- struct [TC\\_VideoDecode\\_t](#)

*Video decode settings together with fields identifying the video component they're for.*

- struct [TC\\_VideoDecodeCfg\\_t](#)
- struct [TC\\_VideoEncode\\_t](#)

*Video encode settings together with field identifying the video component they're for.*

- struct [TC\\_VideoEncodeCfg\\_t](#)
- struct [TC\\_VideoEncodeSettings\\_t](#)

*Video encode settings.*

- struct [TC\\_VideoInformation\\_t](#)
- struct [TC\\_VideoResolution\\_t](#)
- struct [TC\\_VideoServiceInformation\\_t](#)
- struct [TC\\_VideoSettings\\_t](#)

*Video transcode settings.*

- struct [TC\\_VideoStatus\\_t](#)
- struct [TempLicenseData](#)
- struct [TierAC\\_t](#)

*Access criteria for tier based scrambling.*

- struct [TierData\\_t](#)

*Tier data.*

- struct [Time](#)

*Structure to supply date and time information.*

- struct [TimeBaseSelectionMode\\_t](#)
- struct [TimeBaseSelectionMode\\_V2\\_t](#)

- struct [TOT\\_Timezone\\_t](#)  
*Structure that represents required data to construct TOT descriptor.*
- struct [TR\\_AudioLevel\\_t](#)
- struct [TR\\_BitrateLimits\\_t](#)  
*Min - max bitrate boundaries used for service.*
- struct [TR\\_BitRateMeasurement\\_t](#)
- struct [TR\\_DelayMode\\_t](#)
- struct [TR\\_DelayMode\\_V2\\_t](#)
- struct [TR\\_GroupID\\_t](#)  
*Used for referencing transrater staging groups.*
- struct [TR\\_GroupServiceSettings\\_t](#)
- struct [TR\\_GroupServiceSettings\\_V2\\_t](#)
- struct [TR\\_GroupSettings\\_t](#)  
*Used to create and change transrater staging groups.*
- struct [TR\\_ResourceCountingLoads\\_t](#)  
*Calculated loads on TR board available for user.*
- struct [TR\\_ResourceCountingSettings\\_t](#)  
*Settings needed to calculate different loads on TR board which can be modified by user.*
- struct [TR\\_Service\\_t](#)  
*Identifies an output service in a transrater staging context.*
- struct [TR\\_ServiceAudioLevel\\_t](#)
- struct [TR\\_ServiceSettings\\_t](#)  
*Transrater specific service settings.*
- struct [TR\\_ServiceSettings\\_V2\\_t](#)  
*Transrater specific service settings V2.*
- struct [TR\\_TSAdd\\_t](#)  
*Used to couple output transport stream(s) to a transrater group.*
- struct [TR\\_TsDelay\\_t](#)  
*TS Delay settings.*
- struct [TR\\_TSSettings\\_t](#)  
*Represents an output transport stream in a transrater staging context.*
- struct [TrackingCriterium\\_t](#)
- struct [TrapDestination](#)  
*SNMP trap destination settings.*
- struct [TRBitRateSample\\_t](#)
- struct [TS\\_AutoPassRules](#)  
*MPTS pass through settings.*
- struct [TS\\_AutoPassRulesDisableFlags](#)  
*MPTS Passthrough disable flags.*
- struct [TS\\_BackupParams\\_t](#)
- struct [TS\\_BitRateMeasurement\\_t](#)
- struct [TS\\_CompBitRateMeasurement\\_t](#)
- struct [TS\\_LossTrigger\\_t](#)
- struct [TS\\_PsipMgtInfo\\_t](#)
- struct [TS\\_SI\\_Table\\_Periods\\_t](#)
- struct [TS\\_Tier\\_t](#)  
*Tier based settings.*
- struct [TS\\_TOT\\_Timezone\\_t](#)

*Structure that represents required data to construct all TOT descriptors on a specific TS.*

- struct [TsOutSvcSourceSelection\\_t](#)
- struct [TsPacketIndexerID\\_Data\\_t](#)
- struct [UniqueDeviceId\\_t](#)
- struct [VCT\\_Data\\_t](#)

*Structure that contains settings about the Virtual Channel Table of a service.*

- struct [VCT\\_Forcing\\_t](#)
- struct [VCT\\_SvcData\\_t](#)

*Structure that contains status about the Virtual Channel Table of a service.*

- struct [VCT\\_SvcInput\\_t](#)

*Structure that contains status about the Virtual Channel Table of a service on input.*

- struct [VCT\\_SvcSetting\\_t](#)

*Structure combining service-id with settings.*

- struct [VersionInfo](#)

*Version info.*

- struct [VersionParts](#)

*Version number information.*

- struct [VideoSignalInfo\\_t](#)
- struct [VLAN\\_Settings\\_t](#)
- struct [VlanPortSet\\_t](#)

*structure to Create/Get information on Vlan PortSets*

## Public Types

- enum [eSystemType](#) { [eDCM](#), [eDCM\\_SuperCrypt](#), [eDCM\\_Statmux](#) }

*The different system types.*

- enum [eSystemType\\_V2](#) { [eSystemType\\_V2\\_DCM](#), [eSystemType\\_V2\\_SuperCrypt](#), [eSystemType\\_V2\\_MVP](#), [eSystemType\\_V2\\_PCAM](#), [eSystemType\\_V2\\_Reserved1](#), [eSystemType\\_V2\\_Reserved2](#), [eSystemType\\_V2\\_Reserved3](#), [eSystemType\\_V2\\_Reserved4](#), [eSystemType\\_V2\\_Reserved5](#), [eSystemType\\_V2\\_Reserved6](#), [eSystemType\\_V2\\_Reserved7](#), [eSystemType\\_V2\\_Reserved8](#), [eSystemType\\_V2\\_Reserved9](#), [eSystemType\\_V2\\_Reserved10](#) }

*The different product families.*

- enum [eDeviceType](#) { [eDeviceType\\_D9900](#), [eDeviceType\\_D9901](#), [eDeviceType\\_D9902](#), [eDeviceType\\_D9036](#), [eDeviceType\\_Reserved1](#), [eDeviceType\\_Reserved2](#), [eDeviceType\\_Reserved3](#), [eDeviceType\\_Reserved4](#), [eDeviceType\\_Reserved5](#), [eDeviceType\\_Reserved6](#), [eDeviceType\\_Reserved7](#), [eDeviceType\\_Reserved8](#), [eDeviceType\\_Reserved9](#), [eDeviceType\\_Reserved10](#) }

*The different device types, mechanical chassis types.*

- enum [eClock\\_Sync\\_Type](#) { [eClock\\_Sync\\_Type\\_Disabled](#), [eClock\\_Sync\\_Type\\_NTP](#), [eClock\\_Sync\\_Type\\_DayTime](#) }

*Synchronization types.*

- enum [eClock\\_Sync\\_Type\\_V2](#) { [eClock\\_Sync\\_Type\\_Disabled\\_V2](#), [eClock\\_Sync\\_Type\\_NTP\\_V2](#), [eClock\\_Sync\\_Type\\_DayTime\\_V2](#), [eClock\\_Sync\\_Type\\_SI\\_Table\\_V2](#), [eClock\\_Sync\\_Type\\_Reserved1](#), [eClock\\_Sync\\_Type\\_Reserved2](#), [eClock\\_Sync\\_Type\\_Reserved3](#) }

*Synchronization types.*

- enum [eNTP\\_TallyCodes](#) { [eNTP\\_TC\\_SpaceReject](#), [eNTP\\_TC\\_FalseTick](#), [eNTP\\_TC\\_Excess](#), [eNTP\\_TC\\_Outlyer](#), [eNTP\\_TC\\_Selected](#), [eNTP\\_TC\\_SysPeer](#), [eNTP\\_TC\\_PPSPeer](#), [eNTP\\_TC\\_Candidat](#) }
- enum [eNTP\\_RefClockTypes](#) { [eNTP\\_RCT\\_Local](#), [eNTP\\_RCT\\_Unicast](#), [eNTP\\_RCT\\_Broadcast](#), [eNTP\\_RCT\\_Multicast](#), [eNTP\\_RCT\\_Invalid](#) }

- enum `ClientType` { `Client_Gui`, `Client_Mgmt`, `Client_SIServer`, `Client_Front` }

*The different client types.*

- enum `eSystemStartup` { `eSystemStartup_NotReady`, `eSystemStartup_Ready` }
- enum `SNMPOperationRights` { `SNMP_ReadOnly`, `SNMP_ReadWrite` }

*SNMP permission settings.*

- enum `PresenceStatus` { `NotPresent`, `Present`, `Present_Not_Initialized`, `Present_Error` }

*Possible values `IsBoardPresent()` can return.*

- enum `eRebootType` { `WarmReboot`, `ColdReboot`, `CleanReboot` }

*Possible options to Reboot the DCM.*

- enum `eTraceLevel` { `eDebugAll`, `eDebugMinor`, `eDebugMajor`, `eDebugNone` }

*Indicates how much debugging information is generated for enabled modules A specific Tracelevel includes all levels above.*

- enum `eIOInterfaceType` { `IOInterfaceType_IP`, `IOInterfaceType_ASI`, `IOInterfaceType_SDI` }

*Types of ports or IO interfaces..*

- enum `eIOInterfaceType_V2` { `IOInterfaceType_V2_IP`, `IOInterfaceType_V2_ASI`, `IOInterfaceType_V2_SDI`, `IOInterfaceType_V2_8VSB`, `IOInterfaceType_V2_DVBS2`, `IOInterfaceType_V2_AES`, `IOInterfaceType_V2_Reserved7`, `IOInterfaceType_V2_Reserved8`, `IOInterfaceType_V2_Reserved9`, `IOInterfaceType_V2_Reserved10`, `IOInterfaceType_V2_Reserved11`, `IOInterfaceType_V2_Reserved12`, `IOInterfaceType_V2_Reserved13`, `IOInterfaceType_V2_Reserved14`, `IOInterfaceType_V2_Reserved15` }

*Types of ports or IO interfaces - Version 2.*

- enum `eIOType` { `IOType_I0`, `IOType_FixedIn`, `IOType_FixedOut`, `IOType_CfgIn`, `IOType_CfgOut` }

*Configuration types of a port.*

- enum `eIOType_V2` { `IOType_V2_I0`, `IOType_V2_FixedIn`, `IOType_V2_FixedOut`, `IOType_V2_CfgIn`, `IOType_V2_CfgOut`, `IOType_V2_Reserved6`, `IOType_V2_Reserved7`, `IOType_V2_Reserved8`, `IOType_V2_Reserved9`, `IOType_V2_Reserved10` }

*Configuration types of a port.*

- enum `ePortEnabledMode` { `ePortMode_Enabled`, `ePortMode_Disabled`, `ePortMode_AutoEnabled`, `ePortMode_Reserved4`, `ePortMode_Reserved5`, `ePortMode_Reserved6`, `ePortMode_Reserved7`, `ePortMode_Reserved8`, `ePortMode_Reserved9`, `ePortMode_Reserved10` }

*Enum to denote the port mode Note: Only ASI and Gbe ports can be set in AutoEnabled mode.*

- enum `ePortDisableMode` { `ePortDisable_PortOnly`, `ePortDisable_FullLink` }
- enum `eGbePortMode_t` { `ePortPairMode`, `eIndividualPortMode`, `eGbePortModeReserved1`, `eGbePortModeReserved2`, `eGbePortModeReserved3`, `eGbePortModeReserved4`, `eGbePortModeReserved5` }

*Configuration values for Gbe port mode.*

- enum `eNicTeamMode` { `NicTeamMode_Revertive`, `NicTeamMode_Floating`, `NicTeamMode_Reserved3`, `NicTeamMode_Reserved4`, `NicTeamMode_Reserved5`, `NicTeamMode_Reserved6`, `NicTeamMode_Reserved7`, `NicTeamMode_Reserved8`, `NicTeamMode_Reserved9` }

*NIC team configuration modes used in `NicTeam_Settings`.*

- enum `eLinkStatus` { `LinkStatus_Down`, `LinkStatus_Up`, `LinkStatus_Reserved3`, `LinkStatus_Reserved4`, `LinkStatus_Reserved5`, `LinkStatus_Reserved6`, `LinkStatus_Reserved7`, `LinkStatus_Reserved8`, `LinkStatus_Reserved9` }

*Management port link status, used in `NicTeam_MemberStatus_t`.*

- enum `eIPS_IncrScheme` { `IPS_Incr_IP`, `IPS_Incr_Port1`, `IPS_Incr_Port2`, `IPS_Incr_IP1_Port1` }

*Used by `IPS_OutDefaultsSet()` and `IPS_OutDefaultsGet()` indicating how the next socket must be generated.*

- enum `eEsTypeStandard` { `eTransparent`, `eDVB`, `eATSC`, `eMOTOROLA`, `eForceUplink`, `eForceVideo`, `eForceAudio3` }



*Transport stream type to guide interpretation and play out of elementary stream types.*

- enum `eIPS_StreamingState` { `IPS_Streaming_Active`, `IPS_Streaming_Paused` }

*Describes if the TS is streaming or not.*

- enum `enStreamingSetting_t` { `eStreamingSetting_On`, `eStreamingSetting_Off`, `eStreamingSetting_Auto`, `eStreamingSetting_Reserved4`, `eStreamingSetting_Reserved5`, `eStreamingSetting_Reserved6`, `eStreamingSetting_Reserved7`, `eStreamingSetting_Reserved8`, `eStreamingSetting_Reserved9`, `eStreamingSetting_Reserved10` }

*Describes when the TS should stream.*

- enum `ePID_Type` { `ePID_TypeEMM`, `ePID_TypeUnref`, `ePID_TypeForced`, `ePID_TypePrivateDataEMMG` }

*PID types.*

- enum `eMpegStandard` { `eStdMpeg2`, `eStdDvb`, `eStdATSC` }
- enum `ePIDPassingStatus` { `ePID_StatusBlockedByUser`, `ePID_StatusPassed`, `ePID_StatusGenerated`, `ePID_StatusBlockedBySystem`, `ePID_StatusNotPassed`, `ePID_StatusTransparent`, `ePID_StatusTransparentRegeneration`, `ePID_StatusStopped`, `ePID_StatusBlockedByDPI`, `ePID_StatusBlockedByTsRule`, `ePID_StatusBlockedBySvcRule` }

*Pid passing and blocking statuses.*

- enum `ePIDPassingStatus_V2` { `ePID_Status_V2_BlockedByUser`, `ePID_Status_V2_Passed`, `ePID_Status_V2_Generated`, `ePID_Status_V2_BlockedBySystem`, `ePID_Status_V2_NotPassed`, `ePID_Status_V2_Transparent`, `ePID_Status_V2_TransparentRegeneration`, `ePID_Status_V2_Stopped`, `ePID_Status_V2_BlockedByDPI`, `ePID_Status_V2_BlockedByTsRule`, `ePID_Status_V2_BlockedBySvcRule`, `ePID_Status_V2_AutoPassed`, `ePID_Status_V2_Reserved12`, `ePID_Status_V2_Reserved13`, `ePID_Status_V2_Reserved14`, `ePID_Status_V2_Reserved15`, `ePID_Status_V2_Reserved16`, `ePID_Status_V2_Reserved17`, `ePID_Status_V2_Reserved18`, `ePID_Status_V2_Reserved19`, `ePID_Status_V2_Reserved20`, `ePID_Status_V2_Reserved21`, `ePID_Status_V2_Reserved22`, `ePID_Status_V2_Reserved23`, `ePID_Status_V2_Reserved24`, `ePID_Status_V2_Reserved25`, `ePID_Status_V2_Reserved26`, `ePID_Status_V2_Reserved27`, `ePID_Status_V2_Reserved28`, `ePID_Status_V2_Reserved29`, `ePID_Status_V2_Reserved30`, `ePID_Status_V2_Reserved31`, `ePID_Status_V2_Reserved32`, `ePID_Status_V2_Reserved33`, `ePID_Status_V2_Reserved34`, `ePID_Status_V2_Reserved35`, `ePID_Status_V2_Reserved36`, `ePID_Status_V2_Reserved37`, `ePID_Status_V2_Reserved38`, `ePID_Status_V2_Reserved39` }

*Pid passing and blocking statuses.*

- enum `eRoutingStatusResult` { `eRoutingResultSuccess`, `eRoutingStatusSuccessWithWarnings`, `eRoutingStatusSuccessWithErrors`, `eRoutingStatusFatalError` }

*Result of routing file upload operation (pre-config - IPS\_ProcessRoutingFile)*

- enum `eRoutingStatusSeverity` { `eRoutingStatusWarning`, `eRoutingStatusError`, `eRoutingStatusFatal` }

*Severity of error that occurred during routing file upload (pre-config - IPS\_ProcessRoutingFile)*

- enum `eNitInPat` { `NitInPatOff`, `NitInPatOn`, `NitInPatAuto` }

*NIT in PAT mode.*

- enum `eInsertCATDescriptors` { `eInsertCATDescriptorsOnlyGenerated`, `eInsertCATDescriptorsGeneratedAndImported` }

*Insert CAT Descriptors.*

- enum `eTimeBaseSelectionMode` { `eTBS_Auto`, `eTBS_AutoReferredPCR`, `eTBS_ForcedPCR`, `eTBS_CBR_Auto`, `eTBS_CBR_AutoReferredPCR`, `eTBS_CBR_ForcedPCR` }
- enum `eTimeBaseSelectionMode_V2` { `eTBS_V2_Auto`, `eTBS_V2_AutoReferredPCR`, `eTBS_V2_ForcedPCR`, `eTBS_V2_CBR_Auto`, `eTBS_V2_CBR_AutoReferredPCR`, `eTBS_V2_CBR_ForcedPCR`, `eTBS_V2_Reserved1`, `eTBS_V2_Reserved2`, `eTBS_V2_Reserved3`, `eTBS_V2_Reserved4`, `eTBS_V2_Reserved5`, `eTBS_V2_Reserved6`, `eTBS_V2_Reserved7`, `eTBS_V2_Reserved8`, `eTBS_V2_Reserved9` }
- enum `ePriorityBitMode` { `eTPB_Transparent`, `eTPB_ForceToZero`, `eTPB_ForceToOne` }

*Input Transport stream setting that defines how the priority bit in the MPEG header of the incoming packets should be manipulated.*

- enum `eEitSchedule` { `eEitSch_Transparent`, `eEitSch_ForceEitScheduleNotPresent`, `eEitSch_ForceEitSchedulePresent` }

*EIT Schedule flag.*

- enum `eEitPresentFollow` { `eEitPF_Transparent`, `eEitPF_ForceEitPresentFollowingNotPresent`, `eEitPF_ForceEitPresentFollowingPresent` }

*EIT Present Following present flag.*

- enum `eCaMode` { `eCA_Transparent`, `eCA_ForceNotScrambled`, `eCA_ForceScrambled` }

*The Conditional Access (CA) Mode.*

- enum `eRunningStatus` { `eRS_Undefined`, `eRS_NotRunning`, `eRS_StartSoon`, `eRS_Pausing`, `eRS_Running`, `eRS_Future`, `eRS_Transparent` }

*The Running status - This indicates the status of the service.*

- enum `eServiceType` { `eST_Transparent`, `eST_DigitalTv`, `eST_DigitalRadio`, `eST_Teletext`, `eST_NVODReference`, `eST_NVODTimeShifted`, `eST_Mosaic`, `eST_Pal`, `eST_Secam`, `eST_Dd2Mac`, `eST_FmRadio`, `eST_Ntsc`, `eST_DataBroadcast`, `eST_Reserved`, `eST_RcsMap`, `eST_RcsFls`, `eST_DvbMhp`, `eST_Mpeg2HD`, `eST_Reserved18`, `eST_Reserved19`, `eST_Reserved20`, `eST_Reserved21`, `eST_AdvancedSD`, `eST_AdvancedSD_NVOD_TimeShifted`, `eST_AdvancedSD_NVOD_Reference`, `eST_AdvancedHD`, `eST_AdvancedHD_NVOD_TimeShifted`, `eST_AdvancedHD_NVOD_Reference` }

*The Service Type.*

- enum `enuTrackTypeV2` { `eTrackV2_ComponentTag`, `eTrackV2_Pcr`, `eTrackV2_StreamType`, `eTrackV2_EsPid`, `eTrackV2_EcmPid`, `eTrackV2_EsEcmPid`, `eTrackV2_EcmCasId`, `eTrackV2_EsEcmCasId` }

*The type of tracking criterium.*

- enum `enuTrackType` { `eTrackComponentTag`, `eTrackPcr`, `eTrackStreamType`, `eTrackEsPid`, `eTrackEcmPid`, `eTrackEsEcmPid` }

*What information of a PID we're tracking.*

- enum `enuRuleSetting` { `eRuleBlock`, `eRuleForce`, `eRulePass` }

*What the intention of a rule can be.*

- enum `enuDefaultRuleSetting` { `eDefaultRuleBlock`, `eDefaultRuleForce`, `eDefaultRulePass` }

*What the intention of a rule can be.*

- enum `eIPS_PortSelectMode` { `IPS_PSM_ManualA`, `IPS_PSM_ManualB`, `IPS_PSM_AutoA`, `IPS_PSM_AutoB` }

- enum `eIPS_PortSelectRevert` { `IPS_PSR_Active`, `IPS_PSR_Inactive` }

- enum `ePortBackupTrigger` { `PBT_LinkLoss`, `PBT_LinkAndUdpLoss` }

- enum `eIPS_AutoNegociation` { `IPS_AN_OFF`, `IPS_AN_ON` }

- enum `eAsiPacketFormat` { `eAsiPacketFormat204Bytes`, `eAsiPacketFormat188Bytes`, `eAsiPacketFormatNone` }

- enum `eAsiOutputMode` { `eAsiOutputModeByte`, `eAsiOutputModePacket`, `eAsiOutputModeNone` }

- enum `ePortStreamingType` { `PortStreamingType_Off`, `PortStreamingType_On`, `PortStreamingType_Auto` }

*Enumeration of port streaming type.*

- enum `eDvbS2_Mode_t` { `eDvbS2_Mode_S`, `eDvbS2_Mode_S2`, `eDvbS2_Mode_Auto`, `eDvbS2_Mode_Reserved1`, `eDvbS2_Mode_Reserved2`, `eDvbS2_Mode_Reserved3` }

- enum `eDvbS2_Polarization_t` { `eDvbS2_Polarization_Horizontal`, `eDvbS2_Polarization_Vertical`, `eDvbS2_Polarization_Reserved1`, `eDvbS2_Polarization_Reserved2`, `eDvbS2_Polarization_Reserved3` }

- enum `eDvbS2_Constellation_t` { `eDvbS2_Constellation_QPSK`, `eDvbS2_Constellation_8PSK`, `eDvbS2_Constellation_16APSK`, `eDvbS2_Constellation_32APSK`, `eDvbS2_Constellation_Reserved1`, `eDvbS2_Constellation_Reserved2`, `eDvbS2_Constellation_Reserved3`, `eDvbS2_Constellation_Reserved4`, `eDvbS2_Constellation_Reserved5` }
- enum `eDvbS2_LNC_Band_t` { `eDvbS2_LNC_Band_Low`, `eDvbS2_LNC_Band_High`, `eDvbS2_LNC_Band_Reserved1`, `eDvbS2_LNC_Band_Reserved2`, `eDvbS2_LNC_Band_Reserved3` }
- enum `eDvbS2_SpectrumInversion_t` { `eDvbS2_SpectrumInversion_On`, `eDvbS2_SpectrumInversion_Off`, `eDvbS2_SpectrumInversion_Reserved1`, `eDvbS2_SpectrumInversion_Reserved2`, `eDvbS2_SpectrumInversion_Reserved3` }
- enum `eDvbS2_FEC_CodeRate_t` { `eDvbS2_FEC_CodeRate_1_4`, `eDvbS2_FEC_CodeRate_1_3`, `eDvbS2_FEC_CodeRate_2_5`, `eDvbS2_FEC_CodeRate_1_2`, `eDvbS2_FEC_CodeRate_3_5`, `eDvbS2_FEC_CodeRate_2_3`, `eDvbS2_FEC_CodeRate_3_4`, `eDvbS2_FEC_CodeRate_4_5`, `eDvbS2_FEC_CodeRate_5_6`, `eDvbS2_FEC_CodeRate_7_8`, `eDvbS2_FEC_CodeRate_8_9`, `eDvbS2_FEC_CodeRate_9_10`, `eDvbS2_FEC_CodeRate_Reserved1`, `eDvbS2_FEC_CodeRate_Reserved2`, `eDvbS2_FEC_CodeRate_Reserved3` }
- enum `eDvbS2_BandSelection_t` { `eDvbS2_BandSelection_Auto`, `eDvbS2_BandSelection_ForcedLow`, `eDvbS2_BandSelection_ForcedHigh`, `eDvbS2_BandSelection_Reserved1`, `eDvbS2_BandSelection_Reserved2`, `eDvbS2_BandSelection_Reserved3` }
- enum `eDvbS2_LncType_t` { `eDvbS2_LncType_SingleBand`, `eDvbS2_LncType_DualBand`, `eDvbS2_LncType_Reserved1`, `eDvbS2_LncType_Reserved2`, `eDvbS2_LncType_Reserved3` }
- enum `eDvbS2_RxMode_t` { `eDvbS2_RxMode_SingleStream`, `eDvbS2_RxMode_MultiStream`, `eDvbS2_RxMode_Reserved1`, `eDvbS2_RxMode_Reserved2`, `eDvbS2_RxMode_Reserved3` }
- enum `eDvbS2_MA_Type_t` { `eDvbS2_MA_Type_CCM`, `eDvbS2_MA_Type_VCM`, `eDvbS2_MA_Type_ACM`, `eDvbS2_MA_Type_Reserved1`, `eDvbS2_MA_Type_Reserved2`, `eDvbS2_MA_Type_Reserved3` }

*The coding and modulation type.*

- enum `eDescriptorType` { `eDT_ManuallyInserted`, `eDT_Passed`, `eDT_Generated`, `eDT_Imported` }
- enum `eCompactCaMode` { `CompactCaModeOff`, `CompactCaModeOn` }

*Compact CA mode.*

- enum `eSource` { `Cached`, `Realtime` }
- enum `eTableStatus` { `Status_OK`, `Status_ParseFailed`, `Status_NotFound`, `Status_Pending` }
- enum `eSubTableRequestMode` { `RequestModeSynchronous`, `RequestModeAsynchronous` }
- enum `enRedusSwitchSource` { `eRedusSwitchSource1`, `eRedusSwitchSource2` }

*The different sources for Redus switch.*

- enum `enRedusSwitchMode` { `eRedusSwitchManual`, `eRedusSwitchAutomatic` }

*The different modes for Redus switch.*

- enum `enTsInputSwitchSource` { `eTsInputSwitchSourceMain`, `eTsInputSwitchSourceBackup` }

*The different sources for TS backup.*

- enum `enTsInputSwitchMode` { `eTsInputSwitchManual`, `eTsInputSwitchAutomatic` }

*The different modes for TS backup.*

- enum `enNetworkFeedActiveIndicator` { `eNetworkFeedInactive`, `eNetworkFeedActive`, `eNetworkFeed_Unknown` }

*The different values of the Network Feed Active indicator.*

- enum `enLocalFeedAvailableIndicator` { `eLocalFeedNotAvailable`, `eLocalFeedAvailable`, `eLocalFeed_Unknown` }

*The different values of the Local Feed Available indicator.*

- enum `enMotionMode` { `eMotionModeReserverd0`, `eMotionModeReserverd1`, `ePalindromeOnce`, `ePalindromeLoop`, `eDefault`, `eOnce`, `eLoop`, `eStatic` }

*The different values of motion mode (logo insertion related)*

- enum `enScte35Commands` { `eREDUS_switch`, `eDCM_input_switch`, `eSelect_now`, `eNetwork_feed_active_or_inactive`, `eLocal_avail_enable_or_disable`, `eSplicer_reset`, `eKeyer_on_or_off`, `eKeyer_config`, `eLogo_enable_or_disable`, `eLogo_reset`, `eREDUS_switch_single`, `eScte35CommandReserved06`, `eScte35CommandReserved07`, `eScte35CommandReserved08`, `eScte35CommandReserved09`, `eScte35CommandReserved10`, `eScte35CommandReserved11`, `eScte35CommandReserved12`, `eScte35CommandReserved13`, `eScte35CommandReserved14`, `eScte35CommandReserved15` }

*The different types of SCTE-35 commands.*

- enum `enFCS_Scte35_Commands` { `eBasicScte35`, `eInputScte35`, `eOutputScte35`, `eReservedForFuture1`, `eReservedForFuture2`, `eReservedForFuture3`, `eReservedForFuture4`, `eReservedForFuture5`, `eReservedForFuture6`, `eReservedForFuture7`, `eReservedForFuture8`, `eReservedForFuture9`, `eReservedForFuture10` }
- enum `eTableStandard_t` { `eTableStandardAll`, `eTableStandardMPEG2`, `eTableStandardDVB`, `eTableStandardATSC` }

*Transport Stream standard to guide generation (and display) of output tables.*

- enum `eTriBool` { `eTB_Transparent`, `eTB_False`, `eTB_True` }
- enum `eVctModulation` { `eVctModulationMode_Transparent`, `eVctModulationMode_Analog`, `eVctModulationMode_Qam64`, `eVctModulationMode_Qam256`, `eVctModulationMode_Vsb8`, `eVctModulationMode_Vsb16` }
- enum `eVctEtmLocation` { `eVctEtmLocation_Transparent`, `eVctEtmLocation_NoEtm`, `eVctEtmLocation_InternalEtm`, `eVctEtmLocation_ExternalEtm` }
- enum `eVctServiceType` { `eVctServiceType_Transparent`, `eVctServiceType_Analog`, `eVctServiceType_Digital_television`, `eVctServiceType_Digital_audio`, `eVctServiceType_Digital_data` }
- enum `enTC_CaptionDescriptorMode_t` { `eTC_CaptionDescriptorMode_AutoMode`, `eTC_CaptionDescriptorMode_AddMode`, `eTC_CaptionDescriptorMode_NoneMode`, `eTC_CaptionDescriptorMode_Reserved1`, `eTC_CaptionDescriptorMode_Reserved2`, `eTC_CaptionDescriptorMode_Reserved3` }

*Defines different modes for the Caption Service Descriptor.*

- enum `enMFPB_AudioProcessingMode_t` { `eMFPB_AudioProcessingMode_Disable`, `eMFPB_AudioProcessingMode_Enable`, `eMFPB_AudioProcessingMode_Reserved3`, `eMFPB_AudioProcessingMode_Reserved4`, `eMFPB_AudioProcessingMode_Reserved5`, `eMFPB_AudioProcessingMode_Reserved6`, `eMFPB_AudioProcessingMode_Reserved7`, `eMFPB_AudioProcessingMode_Reserved8` }
- enum `enMFPB_Resources` { `eMFPB_Res_Audio`, `eMFPB_Res_Reserved1`, `eMFPB_Res_Reserved2`, `eMFPB_Res_Reserved3`, `eMFPB_Res_Reserved4`, `eMFPB_Res_Reserved5`, `eMFPB_Res_Reserved6`, `eMFPB_Res_Reserved7`, `eMFPB_Res_Reserved8`, `eMFPB_Res_Reserved9` }

*Types of MFP resources.*

- enum `enMFPB_EngineUnitType_t` { `eMFPB_EngineUnitType_VideoAudio`, `eMFPB_EngineUnitType_AudioOnly`, `eMFPB_EngineUnitType_Reserved1`, `eMFPB_EngineUnitType_Reserved2`, `eMFPB_EngineUnitType_Reserved3`, `eMFPB_EngineUnitType_Reserved4`, `eMFPB_EngineUnitType_Reserved5`, `eMFPB_EngineUnitType_Reserved6` }
- enum `enMFPB_EngineUnitMode_t` { `eMFPB_EngineUnitMode_SD_Transprocess`, `eMFPB_EngineUnitMode_HD_Transprocess`, `eMFPB_EngineUnitMode_SD_HD_Transprocess`, `eMFPB_EngineUnitMode_SD_Splice`, `eMFPB_EngineUnitMode_HD_Splice`, `eMFPB_EngineUnitMode_AudioOnly`, `eMFPB_EngineUnitMode_MultiRes`, `eMFPB_EngineUnitMode_Reserved7`, `eMFPB_EngineUnitMode_Reserved8`, `eMFPB_EngineUnitMode_Reserved9`, `eMFPB_EngineUnitMode_Reserved10`, `eMFPB_EngineUnitMode_Reserved11`, `eMFPB_EngineUnitMode_Reserved12`, `eMFPB_EngineUnitMode_Reserved13`, `eMFPB_EngineUnitMode_Reserved14`, `eMFPB_EngineUnitMode_Reserved15` }
- enum `enMFPB_SlotType_t` { `eMFPB_SlotType_SD`, `eMFPB_SlotType_HD`, `eMFPB_SlotType_AudioOnly`, `eMFPB_SlotType_MultiRes`, `eMFPB_SlotType_Reserved5`, `eMFPB_SlotType_Reserved6`, `eMFPB_SlotType_Reserved7`, `eMFPB_SlotType_Reserved8` }
- enum `enMFPB_AdaptSI_t` { `eMFPB_AdaptSI_Disabled`, `eMFPB_AdaptSI_DVB`, `eMFPB_AdaptSI_ATSC`, `eMFPB_AdaptSI_DC2` }

- enum enMFPB\_MaxBitrateDescrMode\_t { eMFPB\_MaxBitrateDescrMode\_Passthrough, eMFPB\_MaxBitrateDescrMode\_Generate }
- enum enMFPB\_ClosedCaptionFormat\_t { eMFPB\_ClosedCaptionFormat\_None, eMFPB\_ClosedCaptionFormat\_SA\_Type\_4, eMFPB\_ClosedCaptionFormat\_SCTE20, eMFPB\_ClosedCaptionFormat\_EAI708, eMFPB\_ClosedCaptionFormat\_Unkown, eMFPB\_ClosedCaptionFormat\_SCTE21\_608-B, eMFPB\_ClosedCaptionFormat\_SCTE21\_4, eMFPB\_ClosedCaptionFormat\_Reserved5, eMFPB\_ClosedCaptionFormat\_Reserved6 }
- enum enMFPB\_AspectRatio\_t { enMFPB\_AR\_Unkown, enMFPB\_AR\_FollowInput, enMFPB\_AR\_4\_3, enMFPB\_AR\_16\_9, enMFPB\_AR\_14\_9, enMFPB\_AR\_Reserved1, enMFPB\_AR\_Reserved2, enMFPB\_AR\_Reserved3, enMFPB\_AR\_Reserved4, enMFPB\_AR\_Reserved5, enMFPB\_AR\_Reserved6, enMFPB\_AR\_Reserved7, enMFPB\_AR\_Reserved8 }
- enum enMFPB\_VideoCodec\_t { eMFPB\_VideoCodec\_Unkown, eMFPB\_VideoCodec\_Mpeg2, eMFPB\_VideoCodec\_Avc, eMFPB\_VideoCodec\_Reserved1, eMFPB\_VideoCodec\_Reserved2, eMFPB\_VideoCodec\_Reserved3, eMFPB\_VideoCodec\_Reserved4 }
- enum enMFPB\_VideoEncodingMode\_t { eMFPB\_VideoEncodingMode\_Transrate, eMFPB\_VideoEncodingMode\_Transcode, eMFPB\_VideoEncodingMode\_Reserved3, eMFPB\_VideoEncodingMode\_Reserved4, eMFPB\_VideoEncodingMode\_Reserved5, eMFPB\_VideoEncodingMode\_Reserved6 }
- enum enMFPB\_VideoEncoderCodec\_t { eMFPB\_VideoEncoderCodec\_Mpeg2, eMFPB\_VideoEncoderCodec\_Avc, eMFPB\_VideoEncoderCodec\_Reserved3, eMFPB\_VideoEncoderCodec\_Reserved4, eMFPB\_VideoEncoderCodec\_Reserved5, eMFPB\_VideoEncoderCodec\_Reserved6 }
- enum enMFPB\_VideoMode\_t { eMFPB\_VideoMode\_SD, eMFPB\_VideoMode\_HD, eMFPB\_VideoMode\_SD\_Down, eMFPB\_VideoMode\_Reserved3, eMFPB\_VideoMode\_Reserved4, eMFPB\_VideoMode\_Reserved5, eMFPB\_VideoMode\_Reserved6 }
- enum enMFPB\_VertResolution\_t { eMFPB\_VR\_FollowInput, eMFPB\_VR\_CustomResolution, eMFPB\_VR\_96, eMFPB\_VR\_128, eMFPB\_VR\_144, eMFPB\_VR\_176, eMFPB\_VR\_180, eMFPB\_VR\_192, eMFPB\_VR\_216, eMFPB\_VR\_240, eMFPB\_VR\_270, eMFPB\_VR\_288, eMFPB\_VR\_360, eMFPB\_VR\_384, eMFPB\_VR\_396, eMFPB\_VR\_480i, eMFPB\_VR\_480, eMFPB\_VR\_540, eMFPB\_VR\_576i, eMFPB\_VR\_576, eMFPB\_VR\_720p, eMFPB\_VR\_1080i, eMFPB\_VR\_1152, eMFPB\_VR\_1080p, eMFPB\_VR\_280, eMFPB\_VR\_Reserved3, eMFPB\_VR\_Reserved4, eMFPB\_VR\_Reserved5, eMFPB\_VR\_Reserved6, eMFPB\_VR\_Reserved7, eMFPB\_VR\_Reserved8, eMFPB\_VR\_Reserved9, eMFPB\_VR\_Reserved10, eMFPB\_VR\_Reserved11, eMFPB\_VR\_Reserved12, eMFPB\_VR\_Reserved13, eMFPB\_VR\_Reserved14, eMFPB\_VR\_Reserved15, eMFPB\_VR\_Reserved16, eMFPB\_VR\_Reserved17, eMFPB\_VR\_Reserved18, eMFPB\_VR\_Reserved19, eMFPB\_VR\_Reserved20, eMFPB\_VR\_Reserved21, eMFPB\_VR\_Reserved22, eMFPB\_VR\_Reserved23, eMFPB\_VR\_Reserved24, eMFPB\_VR\_Reserved25, eMFPB\_VR\_Reserved26, eMFPB\_VR\_Reserved27, eMFPB\_VR\_Reserved28, eMFPB\_VR\_Reserved29, eMFPB\_VR\_Reserved30 }
- enum enMFPB\_HorizResolution\_t { eMFPB\_HR\_FollowInput, eMFPB\_HR\_FollowInputAspectRatio, eMFPB\_HR\_CustomResolution, eMFPB\_HR\_96, eMFPB\_HR\_128, eMFPB\_HR\_176, eMFPB\_HR\_192, eMFPB\_HR\_320, eMFPB\_HR\_352, eMFPB\_HR\_384, eMFPB\_HR\_480, eMFPB\_HR\_528, eMFPB\_HR\_544, eMFPB\_HR\_640, eMFPB\_HR\_704, eMFPB\_HR\_720, eMFPB\_HR\_854, eMFPB\_HR\_960, eMFPB\_HR\_1024, eMFPB\_HR\_1080, eMFPB\_HR\_1152, eMFPB\_HR\_1280, eMFPB\_HR\_1408, eMFPB\_HR\_1440, eMFPB\_HR\_1920, eMFPB\_HR\_368, eMFPB\_HR\_Ratio\_1\_2, eMFPB\_HR\_Ratio\_2\_3, eMFPB\_HR\_Ratio\_3\_4, eMFPB\_HR\_Reserved1, eMFPB\_HR\_Reserved2, eMFPB\_HR\_Reserved3, eMFPB\_HR\_Reserved4, eMFPB\_HR\_Reserved5, eMFPB\_HR\_Reserved6, eMFPB\_HR\_Reserved7, eMFPB\_HR\_Reserved8, eMFPB\_HR\_Reserved9, eMFPB\_HR\_Reserved10, eMFPB\_HR\_Reserved11, eMFPB\_HR\_Reserved12, eMFPB\_HR\_Reserved13, eMFPB\_HR\_Reserved14, eMFPB\_HR\_Reserved15, eMFPB\_HR\_Reserved16, eMFPB\_HR\_Reserved17, eMFPB\_HR\_Reserved18, eMFPB\_HR\_Reserved19, eMFPB\_HR\_Reserved20, eMFPB\_HR\_Reserved21, eMFPB\_HR\_Reserved22, eMFPB\_HR\_Reserved23, eMFPB\_HR\_Reserved24, eMFPB\_HR\_Reserved25, eMFPB\_HR\_Reserved26 }
- enum enMFPB\_FrameRate\_t { eMFPB\_FrameRate\_FollowInput, eMFPB\_FrameRate\_Reduction, eMFPB\_FrameRate\_24Hz, eMFPB\_FrameRate\_25Hz, eMFPB\_FrameRate\_29\_97Hz, eMFPB\_

- FrameRate\_30Hz, eMFPB\_FrameRate\_50Hz, eMFPB\_FrameRate\_59\_94Hz, eMFPB\_FrameRate\_60Hz, eMFPB\_FrameRate\_Reserved9, eMFPB\_FrameRate\_Reserved10, eMFPB\_FrameRate\_Reserved11, eMFPB\_FrameRate\_Reserved12 }
- enum enMFPB\_FrameRateReduction\_t { eMFPB\_FrameRateReduction\_None, eMFPB\_FrameRateReduction\_1\_over\_2, eMFPB\_FrameRateReduction\_1\_over\_3, eMFPB\_FrameRateReduction\_1\_over\_4, eMFPB\_FrameRateReduction\_1\_over\_5, eMFPB\_FrameRateReduction\_1\_over\_6, eMFPB\_FrameRateReduction\_1\_over\_30, eMFPB\_FrameRateReduction\_1\_over\_60, eMFPB\_FrameRateReduction\_Reserved9, eMFPB\_FrameRateReduction\_Reserved10, eMFPB\_FrameRateReduction\_Reserved11, eMFPB\_FrameRateReduction\_Reserved12 }
  - enum enMFPB\_Profile\_t { eMFPB\_Profile\_FollowInput, eMFPB\_Profile\_Baseline, eMFPB\_Profile\_ConstrainedBaseline, eMFPB\_Profile\_Main, eMFPB\_Profile\_High, eMFPB\_Profile\_Reserved1, eMFPB\_Profile\_Reserved2, eMFPB\_Profile\_Reserved3, eMFPB\_Profile\_Reserved4, eMFPB\_Profile\_Reserved5, eMFPB\_Profile\_Reserved6 }
  - enum enMFPB\_BitrateMode { eMFPB\_BitrateMode\_CBR, eMFPB\_BitrateMode\_CappedVBR, eMFPB\_BitrateMode\_Statmux, eMFPB\_BitrateMode\_Reserved4, eMFPB\_BitrateMode\_Reserved5, eMFPB\_BitrateMode\_Reserved6 }
  - enum enMFPB\_GopStructure\_t { eMFPB\_GS\_FollowInput, eMFPB\_GS\_Fixed, eMFPB\_GS\_Dynamic, eMFPB\_GS\_KeepClosed, eMFPB\_GS\_HardFixed, eMFPB\_GS\_Reserved2, eMFPB\_GS\_Reserved3, eMFPB\_GS\_Reserved4, eMFPB\_GS\_Reserved5 }
  - enum enMFPB\_ClosedCaptions\_t { eMFPB\_ClosedCaptions\_Disable, eMFPB\_ClosedCaptions\_Auto, eMFPB\_ClosedCaptions\_TestField1, eMFPB\_ClosedCaptions\_TestField2, eMFPB\_ClosedCaptions\_TestField1\_2, eMFPB\_ClosedCaptions\_Manual, eMFPB\_ClosedCaptions\_Reserved5, eMFPB\_ClosedCaptions\_Reserved6, eMFPB\_ClosedCaptions\_Reserved7, eMFPB\_ClosedCaptions\_Reserved8, eMFPB\_ClosedCaptions\_Reserved9, eMFPB\_ClosedCaptions\_Reserved10 }
  - enum enMFPB\_AspectRatioSigMode { eMFPB\_AspectRatioModeSig\_Manual, eMFPB\_AspectRatioModeSig\_Auto, eMFPB\_AspectRatioModeSig\_Reserved1, eMFPB\_AspectRatioModeSig\_Reserved2, eMFPB\_AspectRatioModeSig\_Reserved3, eMFPB\_AspectRatioModeSig\_Reserved4, eMFPB\_AspectRatioModeSig\_Reserved5, eMFPB\_AspectRatioModeSig\_Reserved6 }
  - enum enMFPB\_AspectRatioSig { eMFPB\_AspectRatioSig\_4\_3, eMFPB\_AspectRatioSig\_16\_9, eMFPB\_AspectRatioSig\_14\_9, eMFPB\_AspectRatioSig\_Reserved1, eMFPB\_AspectRatioSig\_Reserved2, eMFPB\_AspectRatioSig\_Reserved3, eMFPB\_AspectRatioSig\_Reserved4, eMFPB\_AspectRatioSig\_Reserved5, eMFPB\_AspectRatioSig\_Reserved6 }
  - enum enMFPB\_AfdMode { eMFPB\_AfdMode\_Manual, eMFPB\_AfdMode\_Auto, eMFPB\_AfdMode\_Reserved1, eMFPB\_AfdMode\_Reserved2, eMFPB\_AfdMode\_Reserved3, eMFPB\_AfdMode\_Reserved4, eMFPB\_AfdMode\_Reserved5, eMFPB\_AfdMode\_Reserved6 }

*Active format descriptor.*

- enum enMFPB\_Afd { enMFPB\_Afd\_16\_9\_b\_top, enMFPB\_Afd\_14\_9\_b\_top, enMFPB\_Afd\_16\_9\_b\_centre, enMFPB\_Afd\_4\_3\_centre, enMFPB\_Afd\_16\_9\_centre, enMFPB\_Afd\_14\_9\_centre, enMFPB\_Afd\_4\_3\_sp\_14\_9, enMFPB\_Afd\_16\_9\_sp\_14\_9, enMFPB\_Afd\_16\_9\_sp\_4\_3, eMFPB\_Afd\_Reserved1, eMFPB\_Afd\_Reserved2, eMFPB\_Afd\_Reserved3, eMFPB\_Afd\_Reserved4, eMFPB\_Afd\_Reserved5, eMFPB\_Afd\_Reserved6 }
- enum enMFPB\_PAFF { enMFPB\_PAFF\_MBAFF, enMFPB\_PAFF\_PAFF, enMFPB\_PAFF\_Reserved1, enMFPB\_PAFF\_Reserved2, enMFPB\_PAFF\_Reserved3, enMFPB\_PAFF\_Reserved4, enMFPB\_PAFF\_Reserved5, enMFPB\_PAFF\_Reserved6 }

*Picture Adaptive Frame Field Encoding.*

- enum enMFPB\_MR\_FrameRate\_t { eMFPB\_MR\_FrameRate\_30Hz, eMFPB\_MR\_FrameRate\_29\_97Hz, eMFPB\_MR\_FrameRate\_25Hz, eMFPB\_MR\_FrameRate\_23\_98Hz, eMFPB\_MR\_FrameRate\_24Hz, eMFPB\_MR\_FrameRate\_15Hz, eMFPB\_MR\_FrameRate\_14\_99Hz, eMFPB\_MR\_FrameRate\_12\_5Hz, eMFPB\_MR\_FrameRate\_12Hz, eMFPB\_MR\_FrameRate\_11\_99Hz, eMFPB\_MR\_FrameRate\_10Hz, eMFPB\_MR\_FrameRate\_9\_99Hz, eMFPB\_MR\_FrameRate\_50Hz, eMFPB\_MR\_FrameRate\_59\_94Hz, eMFPB\_MR\_FrameRate\_60Hz, eMFPB\_MR\_FrameRate\_Reserved4,



- eMFPB\_MR\_FrameRate\_Reserved5, eMFPB\_MR\_FrameRate\_Reserved6, eMFPB\_MR\_FrameRate\_Reserved7, eMFPB\_MR\_FrameRate\_Reserved8, eMFPB\_MR\_FrameRate\_Reserved9, eMFPB\_MR\_FrameRate\_Reserved10 }
- enum enMFPB\_Level\_t { eMFPB\_Level\_Auto, eMFPB\_Level\_1, eMFPB\_Level\_1b, eMFPB\_Level\_1\_1, eMFPB\_Level\_1\_2, eMFPB\_Level\_1\_3, eMFPB\_Level\_2, eMFPB\_Level\_2\_1, eMFPB\_Level\_2\_2, eMFPB\_Level\_3, eMFPB\_Level\_3\_1, eMFPB\_Level\_3\_2, eMFPB\_Level\_4, eMFPB\_Level\_4\_1, eMFPB\_Level\_4\_2, eMFPB\_Level\_Reserved1, eMFPB\_Level\_Reserved2, eMFPB\_Level\_Reserved3, eMFPB\_Level\_Reserved4, eMFPB\_Level\_Reserved5 }
  - enum enMFPB\_EntropyEncoding\_t { eMFPB\_EntropyEncoding\_Auto, eMFPB\_EntropyEncoding\_CAVLC, eMFPB\_EntropyEncoding\_CABAC, eMFPB\_EntropyEncoding\_Reserved1, eMFPB\_EntropyEncoding\_Reserved2, eMFPB\_EntropyEncoding\_Reserved3 }
  - enum enMFPB\_AudioFormat\_t { eMFPB\_AudioFormat\_MPEG1\_Layer2, eMFPB\_AudioFormat\_AC3, eMFPB\_AudioFormat\_DolbyDigitalPlus, eMFPB\_AudioFormat\_DolbyDigitalPulse, eMFPB\_AudioFormat\_LC\_AAC, eMFPB\_AudioFormat\_HE\_AACv1, eMFPB\_AudioFormat\_HE\_AACv2, eMFPB\_AudioFormat\_AAC, eMFPB\_AudioFormat\_Reserved9, eMFPB\_AudioFormat\_Reserved10, eMFPB\_AudioFormat\_Reserved11, eMFPB\_AudioFormat\_Reserved12, eMFPB\_AudioFormat\_Reserved13, eMFPB\_AudioFormat\_Reserved14, eMFPB\_AudioFormat\_Reserved15 }
  - enum enMFPB\_AudioChannelConfiguration\_t { eMFPB\_AudioChannelConfig\_Mono, eMFPB\_AudioChannelConfig\_Stereo, eMFPB\_AudioChannelConfig\_ACC\_5\_1, eMFPB\_AudioChannelConfig\_Reserved3, eMFPB\_AudioChannelConfig\_Reserved4, eMFPB\_AudioChannelConfig\_Reserved5, eMFPB\_AudioChannelConfig\_Reserved6, eMFPB\_AudioChannelConfig\_Reserved7, eMFPB\_AudioChannelConfig\_Reserved8, eMFPB\_AudioChannelConfig\_Reserved9, eMFPB\_AudioChannelConfig\_Reserved10 }
  - enum enMFPB\_AudioStatusChannelConfiguration\_t { eMFPB\_AudioStatusChannelConfig\_MPEGLII\_1\_0, eMFPB\_AudioStatusChannelConfig\_MPEGLII\_1\_1, eMFPB\_AudioStatusChannelConfig\_MPEGLII\_2, eMFPB\_AudioStatusChannelConfig\_MPEGLII\_2\_JS, eMFPB\_AudioStatusChannelConfig\_DD\_1\_0, eMFPB\_AudioStatusChannelConfig\_DD\_1\_1, eMFPB\_AudioStatusChannelConfig\_DD\_2\_0, eMFPB\_AudioStatusChannelConfig\_DD\_3\_0, eMFPB\_AudioStatusChannelConfig\_DD\_2\_1, eMFPB\_AudioStatusChannelConfig\_DD\_3\_1, eMFPB\_AudioStatusChannelConfig\_DD\_2\_2, eMFPB\_AudioStatusChannelConfig\_DD\_3\_2, eMFPB\_AudioStatusChannelConfig\_AAC\_1\_0, eMFPB\_AudioStatusChannelConfig\_AAC\_2\_0, eMFPB\_AudioStatusChannelConfig\_AAC\_3\_0, eMFPB\_AudioStatusChannelConfig\_AAC\_4\_0, eMFPB\_AudioStatusChannelConfig\_AAC\_5\_0, eMFPB\_AudioStatusChannelConfig\_AAC\_5\_1, eMFPB\_AudioStatusChannelConfig\_AAC\_7\_1, eMFPB\_AudioStatusChannelConfig\_Reserved1, eMFPB\_AudioStatusChannelConfig\_Reserved2, eMFPB\_AudioStatusChannelConfig\_Reserved3, eMFPB\_AudioStatusChannelConfig\_Reserved4, eMFPB\_AudioStatusChannelConfig\_Reserved5, eMFPB\_AudioStatusChannelConfig\_Reserved6, eMFPB\_AudioStatusChannelConfig\_Reserved7, eMFPB\_AudioStatusChannelConfig\_Reserved8, eMFPB\_AudioStatusChannelConfig\_Reserved9, eMFPB\_AudioStatusChannelConfig\_Reserved10, eMFPB\_AudioStatusChannelConfig\_Reserved11, eMFPB\_AudioStatusChannelConfig\_Reserved12, eMFPB\_AudioStatusChannelConfig\_Reserved13, eMFPB\_AudioStatusChannelConfig\_Reserved14, eMFPB\_AudioStatusChannelConfig\_Reserved15, eMFPB\_AudioStatusChannelConfig\_Reserved16 }
  - enum enMFPB\_AudioSampleRate\_t { eMFPB\_AudioSampleRate\_FollowInput, eMFPB\_AudioSampleRate\_22\_05KHz, eMFPB\_AudioSampleRate\_24KHz, eMFPB\_AudioSampleRate\_32KHz, eMFPB\_AudioSampleRate\_44\_1KHz, eMFPB\_AudioSampleRate\_48KHz, eMFPB\_AudioSampleRate\_Reserved1, eMFPB\_AudioSampleRate\_Reserved2, eMFPB\_AudioSampleRate\_Reserved3, eMFPB\_AudioSampleRate\_Reserved4, eMFPB\_AudioSampleRate\_Reserved5 }
  - enum enMFPB\_AudioStatusSampleRate\_t { eMFPB\_AudioStatusSampleRate\_22\_05KHz, eMFPB\_AudioStatusSampleRate\_24KHz, eMFPB\_AudioStatusSampleRate\_32KHz, eMFPB\_AudioStatusSampleRate\_44\_1KHz, eMFPB\_AudioStatusSampleRate\_48KHz, eMFPB\_AudioStatusSampleRate\_96KHz, eMFPB\_AudioStatusSampleRate\_88\_2KHz, eMFPB\_AudioStatusSampleRate\_64KHz, eMFPB\_AudioStatusSampleRate\_16KHz, eMFPB\_AudioStatusSampleRate\_12KHz, eMFPB\_AudioStatusSampleRate\_11\_025KHz, eMFPB\_AudioStatusSampleRate\_8KHz, eMFPB\_AudioStatusSampleRate\_Reserved1, eMFPB\_AudioStatusSampleRate\_Reserved2, eMFPB\_AudioStatusSampleRate\_Reserved3, eMFPB\_AudioStatusSampleRate\_Reserved4, eMFPB\_AudioStatusSampleRate\_Reserved5 }

- Rate\_7\_35KHz, eMFPB\_AudioStatusSampleRate\_Reserved1, eMFPB\_AudioStatusSampleRate\_Reserved2, eMFPB\_AudioStatusSampleRate\_Reserved3, eMFPB\_AudioStatusSampleRate\_Reserved4, eMFPB\_AudioStatusSampleRate\_Reserved5, eMFPB\_AudioStatusSampleRate\_Reserved6, eMFPB\_AudioStatusSampleRate\_Reserved7, eMFPB\_AudioStatusSampleRate\_Reserved8, eMFPB\_AudioStatusSampleRate\_Reserved9, eMFPB\_AudioStatusSampleRate\_Reserved10, eMFPB\_AudioStatusSampleRate\_Reserved11, eMFPB\_AudioStatusSampleRate\_Reserved12, eMFPB\_AudioStatusSampleRate\_Reserved13, eMFPB\_AudioStatusSampleRate\_Reserved14, eMFPB\_AudioStatusSampleRate\_Reserved15, eMFPB\_AudioStatusSampleRate\_Reserved16 }
- enum enMFPB\_AAC\_TransportPacketMode\_t { eMFPB\_PacketMode\_MPEG2\_ADTS, eMFPB\_PacketMode\_MPEG4\_ADTS, eMFPB\_PacketMode\_MPEG4\_LATM, eMFPB\_PacketMode\_MPEG4\_LATM\_EXPL, eMFPB\_PacketMode\_MPEG4\_ADTS\_CRC, eMFPB\_PacketMode\_Reserved5, eMFPB\_PacketMode\_Reserved6, eMFPB\_PacketMode\_Reserved7, eMFPB\_PacketMode\_Reserved8 }
  - enum enMFPB\_AAC\_AdvancedEncodingTools { eMFPB\_AET\_None, eMFPB\_AET\_TNS, eMFPB\_AET\_PNS\_TNS, eMFPB\_AET\_SBR, eMFPB\_AET\_SBR\_PS, eMFPB\_AET\_DRC, eMFPB\_AET\_Reserved7, eMFPB\_AET\_Reserved8, eMFPB\_AET\_Reserved9, eMFPB\_AET\_Reserved10 }
  - enum enMFPB\_Dolby\_BitStreamMode { eMFPB\_BSM\_CompleteMain, eMFPB\_BSM\_MusicAndEffects, eMFPB\_BSM\_VisualImpaired, eMFPB\_BSM\_HearingImpaired, eMFPB\_BSM\_Dialog, eMFPB\_BSM\_Commentary, eMFPB\_BSM\_EmergencyFlash, eMFPB\_BSM\_MainMinusDialogue, eMFPB\_BSM\_VoiceOver, eMFPB\_BSM\_Karaoke, eMFPB\_BSM\_Reserved7 }
  - enum enMFPB\_Dolby\_DynamicRangeControl { eMFPB\_DD\_None, eMFPB\_DD\_FilmStandard, eMFPB\_DD\_FilmLight, eMFPB\_DD\_MusicStandard, eMFPB\_DD\_MusicLight, eMFPB\_DD\_Speech, eMFPB\_DD\_Reserved6, eMFPB\_DD\_Reserved7, eMFPB\_DD\_Reserved8, eMFPB\_DD\_Reserved9, eMFPB\_DD\_Reserved10 }
  - enum enMFPB\_Dolby\_DigitalDeEmphasis { eMFPB\_DDE\_None, eMFPB\_DDE\_50\_15us, eMFPB\_DDE\_Auto, eMFPB\_DDE\_Reserved3, eMFPB\_DDE\_Reserved4, eMFPB\_DDE\_Reserved5, eMFPB\_DDE\_Reserved6 }
  - enum enMFPB\_Dolby\_SurroundMode { eMFPB\_DS\_NotIndicated, eMFPB\_DS\_Disabled, eMFPB\_DS\_Enabled, eMFPB\_DS\_Reserver3, eMFPB\_DS\_Reserver4, eMFPB\_DS\_Reserver5, eMFPB\_DS\_Reserver6 }
  - enum enMFPB\_Dolby\_RoomType { eMFPB\_DR\_NotIndicated, eMFPB\_DR\_SmallRoom, eMFPB\_DR\_LargeRoom, eMFPB\_DR\_Reserved3, eMFPB\_DR\_Reserved4, eMFPB\_DR\_Reserved5, eMFPB\_DR\_Reserved6 }
  - enum enMFPB\_Downmix\_ToStereo { eMFPB\_Downmix\_ToStereo\_LTRT, eMFPB\_Downmix\_ToStereo\_LORO, eMFPB\_Downmix\_ToStereo\_Auto, eMFPB\_Downmix\_ToStereo\_NotIndicated, eMFPB\_Downmix\_ToStereo\_Reserved2, eMFPB\_Downmix\_ToStereo\_Reserved3, eMFPB\_Downmix\_ToStereo\_Reserved4, eMFPB\_Downmix\_ToStereo\_Reserved5, eMFPB\_Downmix\_ToStereo\_Reserved6 }
- Select channels to keep when converting to stereo/dual mono.*
- enum enMFPB\_ExtendedBSI\_Mode { eMFPB\_ExtendedBSI\_Mode\_Standard, eMFPB\_ExtendedBSI\_Mode\_XBSI, eMFPB\_ExtendedBSI\_Mode\_Reserved1, eMFPB\_ExtendedBSI\_Mode\_Reserved2, eMFPB\_ExtendedBSI\_Mode\_Reserved3, eMFPB\_ExtendedBSI\_Mode\_Reserved4, eMFPB\_ExtendedBSI\_Mode\_Reserved5, eMFPB\_ExtendedBSI\_Mode\_Reserved6 }
- Extended BSI Mode.*
- enum enMFPB\_Dolby\_SurroundExMode { eMFPB\_DSExt\_NotIndicated, eMFPB\_DSExt\_Disabled, eMFPB\_DSExt\_Enabled, eMFPB\_DSExt\_Reserverd1, eMFPB\_DSExt\_Reserverd2, eMFPB\_DSExt\_Reserverd3, eMFPB\_DSExt\_Reserverd4 }
- Extended Surround Mode.*
- enum enMFPB\_Downmix\_ToMono { eMFPB\_Downmix\_ToMono\_Left, eMFPB\_Downmix\_ToMono\_Right, eMFPB\_Downmix\_ToMono\_Split, eMFPB\_Downmix\_ToMono\_Reserved1, eMFPB\_Downmix\_ToMono\_Reserved2, eMFPB\_Downmix\_ToMono\_Reserved3, eMFPB\_Downmix\_ToMono\_Reserved4 }



*Select dual mono channels to keep when converting to mono.*

- enum `enMFPB_DolbyDec_DynComp` { `eMFPB_DolbyDec_DynComp_Line`, `eMFPB_DolbyDec_DynComp_RF`, `eMFPB_DolbyDec_DynComp_Custom`, `eMFPB_DolbyDec_DynComp_None`, `eMFPB_DolbyDec_DynComp_Reserved1`, `eMFPB_DolbyDec_DynComp_Reserved2`, `eMFPB_DolbyDec_DynComp_Reserved3`, `eMFPB_DolbyDec_DynComp_Reserved4` }

*Dolby Dynamic Compression Mode.*

- enum `enMFPB_MetaDataPass_t` { `enMFPB_MetaDataCfg_Auto`, `enMFPB_MetaDataCfg_Manual`, `enMFPB_MetaDataCfg_Reserved1`, `enMFPB_MetaDataCfg_Reserved2`, `enMFPB_MetaDataCfg_Reserved3`, `enMFPB_MetaDataCfg_Reserved4`, `enMFPB_MetaDataCfg_Reserved5`, `enMFPB_MetaDataCfg_Reserved6` }

*Setting of how meta data should be passed between decoder and encoder.*

- enum `enTC_Profile_t` { `eTC_Profile_Main`, `eTC_Profile_High` }
- enum `enTC_VBR_Quality_t` { `eTC_VBR_Best`, `eTC_VBR_Low_Valleys`, `eTC_VBR_Moderate_Valleys`, `eTC_VBR_Aggressive_Valleys`, `eTC_VBR_Very_Aggressive_Valleys` }
- enum `enTC_EncodingMode_t` { `eTC_EncodingMode_VBR`, `eTC_EncodingMode_CBR` }
- enum `enTC_ClosedCaptionMode_t` { `eTC_ClosedCaptionMode_Disabled`, `eTC_ClosedCaptionMode_Transcode`, `eTC_ClosedCaptionMode_TestPattern_1`, `eTC_ClosedCaptionMode_TestPattern_2`, `eTC_ClosedCaptionMode_TestPattern_1_2` }
- enum `enTC_ClosedCaptionFormat_t` { `eTC_ClosedCaptionFormat_None`, `eTC_ClosedCaptionFormat_SA_Type_4`, `eTC_ClosedCaptionFormat_SCTE20`, `eTC_ClosedCaptionFormat_EAI708` }
- enum `enTC_PipResolution_t` { `eTC_PipResolution_96_96`, `eTC_PipResolution_SQCIF`, `eTC_PipResolution_QCIF`, `eTC_PipResolution_192_192`, `eTC_PipResolution_Reserved_1`, `eTC_PipResolution_Reserved_2`, `eTC_PipResolution_Reserved_3`, `eTC_PipResolution_Reserved_4` }
- enum `enTC_TemporalNoiseShaping_t` { `eTC_TNS_Disabled`, `eTC_TNS_Enabled` }
- enum `enTC_SpectralBandReplication_t` { `eTC_SBR_Disabled`, `eTC_SBR_Enabled` }
- enum `enTC_PerceptualNoiseSubstitution_t` { `eTC_PNS_Disabled`, `eTC_PNS_Enabled` }
- enum `enTC_TransportPacketizationMode_t` { `eTC_TPM_ADTS`, `eTC_TPM_LOAS`, `eTC_TPM_ADIF`, `eTC_TPM_RAW` }
- enum `enTC_AudioSampleRate_t` { `eTC_AudioSampleRate_Auto`, `eTC_AudioSampleRate_16KHz`, `eTC_AudioSampleRate_32KHz`, `eTC_AudioSampleRate_44_1KHz`, `eTC_AudioSampleRate_48KHz` }
- enum `enTC_AudioMode_t` { `eTC_AudioMode_Mono`, `eTC_AudioMode_Stereo`, `eTC_AudioMode_DualMono`, `eTC_AudioMode_Left_Right_Center`, `eTC_AudioMode_Left_Right_Surround`, `eTC_AudioMode_Left_Right_Center_Surround`, `eTC_AudioMode_Left_Right_SurroundLeft_SurroundRight`, `eTC_AudioMode_Left_Right_Center_SurroundLeft_SurroundRight` }
- enum `enTC_MaximumBitrateDescriptorMode_t` { `eTC_MaximumBitrateDescriptorMode_Passthrough`, `eTC_MaximumBitrateDescriptorMode_Generate` }
- enum `enTC_BoardMode_t` { `eTC_BoardMode_Transcode`, `eTC_BoardMode_LogoInsertion`, `eTC_BoardMode_Reserved_1`, `eTC_BoardMode_Reserved_2`, `eTC_BoardMode_Reserved_3`, `eTC_BoardMode_Reserved_4`, `eTC_BoardMode_Reserved_5` }

*Processor board mode.*

- enum `enLogoPlayoutMode_t` { `eLogoPlayout_Normal`, `eLogoPlayout_Palindrome`, `eLogoPlayout_Reserved_1`, `eLogoPlayout_Reserved_2`, `eLogoPlayout_Reserved_3` }

*Playout modes for animated logos.*

- enum `enTC_LogoCfgSource_t` { `eTC_LogoCfgSource_Local`, `eTC_LogoCfgSource_SCTE35`, `eTC_LogoCfgSource_Reserved1`, `eTC_LogoCfgSource_Reserved2`, `eTC_LogoCfgSource_Reserved3` }
- enum `enBannerTextEncoding_t` { `eBannerTextEncoding_ASCII`, `eBannerTextEncoding_UTF8`, `eBannerTextEncoding_Reserved3`, `eBannerTextEncoding_Reserved4`, `eBannerTextEncoding_Reserved5`, `eBannerTextEncoding_Reserved6`, `eBannerTextEncoding_Reserved7`, `eBannerTextEncoding_Reserved8` }

- enum `enBannerStopType_t` { `eBannerStopType_Direct`, `eBannerStopType_OnLoop`, `eBannerStopType_Type_Reserved3`, `eBannerStopType_Reserved4`, `eBannerStopType_Reserved5`, `eBannerStopType_Reserved6`, `eBannerStopType_Reserved7`, `eBannerStopType_Reserved8` }
- enum `enTC_AllowedBanner_t` { `eTC_AllowedBanner_None`, `eTC_AllowedBanner_Text_Only`, `eTC_AllowedBanner_Text_Static`, `eTC_AllowedBanner_Text_Animated`, `eTC_AllowedBanner_Reserved1`, `eTC_AllowedBanner_Reserved2`, `eTC_AllowedBanner_Reserved3`, `eTC_AllowedBanner_Reserved4` }
- enum `enTC_BannerPriority_t` { `eTC_BannerPriority_Keep_Logos`, `eTC_BannerPriority_Remove_Logos`, `eTC_BannerPriority_Reserved1`, `eTC_BannerPriority_Reserved2`, `eTC_BannerPriority_Reserved3` }
- enum `enTC_EAS_Control_t` { `eTC_EAS_Control_Disabled`, `eTC_EAS_Control_Enabled`, `eTC_EAS_Control_Reserved1`, `eTC_EAS_Control_Reserved2`, `eTC_EAS_Control_Reserved3` }
- enum `enTR_VideoFormat` { `eTR_NTSC`, `eTR_PAL`, `eTR_VideoFormat_Reserved1`, `eTR_VideoFormat_Reserved2`, `eTR_VideoFormat_Reserved3`, `eTR_VideoFormat_Reserved4`, `eTR_VideoFormat_Reserved5`, `eTR_VideoFormat_Reserved6` }

*Video format needed to calculate different loads on TR board.*

- enum `eTR_ServiceMode` { `SrvM_PassThrough`, `SrvM_StatMux`, `SrvM_RateLimit` }
- enum `eTR_BoardDelayMode` { `DM_NormalDelay`, `DM_LowDelay` }
- enum `eTR_GroupType` { `MultiTS`, `SingleTS_TS`, `SingleTS_Service` }
- enum `enTR_Function_t` { `eTR_Function_Normal`, `eTR_Function_AVC_DPI`, `eTR_Function_Reserved1`, `eTR_Function_Reserved2`, `eTR_Function_Reserved3` }
- enum `eTR_Algorithm` { `eTR_Performance`, `eTR_Quality`, `eTR_ExtendedGop` }
- enum `eTR_Delay` { `eTR_NormalDelay`, `eTR_HighDelay` }
- enum `eTR_CoarseDelay` { `eTR_NormalCoarseDelay`, `eTR_HighCoarseDelay`, `eTR_PredefinedDelay`, `eTR_CustomDelay`, `eTR_LowDelay` }
- enum `eTR_CoarseDelay_V2` { `eTR_NormalCoarseDelay_V2`, `eTR_HighCoarseDelay_V2`, `eTR_PredefinedDelay_V2`, `eTR_CustomDelay_V2`, `eTR_LowDelay_V2`, `eTR_TS_Delay_V2` }
- enum `eTR_FrameRateDelay` { `eTR_25Hz`, `eTR_30Hz` }
- enum `eTR_BoardTypeDelay` { `eTR_ASI`, `eTR_GbE` }
- enum `eTR_FineDelay` { `eTR_LowFineDelay`, `eTR_NormalFineDelay`, `eTR_HighFineDelay` }
- enum `enTR_SpliceWindowAccuracy` { `eTR_SpliceWindowAccuracy_BestEffort`, `eTR_SpliceWindowAccuracy_Scte30`, `eTR_SpliceWindowAccuracy_Reserved1`, `eTR_SpliceWindowAccuracy_Reserved2`, `eTR_SpliceWindowAccuracy_Reserved3`, `eTR_SpliceWindowAccuracy_Reserved4`, `eTR_SpliceWindowAccuracy_Reserved5` }
- enum `eTRB_CC_UpdateMode` { `eTRB_CC_UpdateMode_Off`, `eTRB_CC_UpdateMode_Scte20_21`, `eTRB_CC_UpdateMode_Reserved1`, `eTRB_CC_UpdateMode_Reserved2`, `eTRB_CC_UpdateMode_Reserved3`, `eTRB_CC_UpdateMode_Reserved4`, `eTRB_CC_UpdateMode_Reserved5`, `eTRB_CC_UpdateMode_Reserved6`, `eTRB_CC_UpdateMode_Reserved7`, `eTRB_CC_UpdateMode_Reserved8` }

*Defines the closed caption update mode for SCTE20-SCTE21 conversion.*

- enum `eRMX_GroupType_t` { `eRMX_SingleTS_SelectedSvc`, `eRMX_GT_Reserved_1`, `eRMX_GT_Reserved_2`, `eRMX_GT_Reserved_3`, `eRMX_GT_Reserved_4`, `eRMX_GT_Reserved_5`, `eRMX_GT_Reserved_6`, `eRMX_GT_Reserved_7`, `eRMX_GT_Reserved_8` }

*Realignment group type.*

- enum `eRMX_ServiceStatus_t` { `eRMX_SvcStatus_Passed_Delayed`, `eRMX_SvcStatus_Blocked_NoMarkers`, `eRMX_SvcStatus_Blocked_NegativeDelay`, `eRMX_SvcStatus_NotPresent`, `eRMX_SvcStatus_Passed_Undelayed`, `eRMX_SvcStatus_Passed_Delayed_NoMarkers`, `eRMX_SvcStatus_Passed_Delayed_InvalidTime`, `eRMX_SvcStatus_Blocked_InvalidTime`, `eRMX_SvcStatus_Blocked_IncompatibleRealignmentInfo`, `eRMX_SvcStatus_Blocked_DejitterBufferReset`, `eRMX_SvcStatus_Blocked_DtsStcCompOutOfLimits`, `eRMX_SvcStatus_Reserved1`, `eRMX_SvcStatus_Reserved2`, `eRMX_SvcStatus_Reserved3`, `eRMX_SvcStatus_Reserved4`, `eRMX_SvcStatus_Reserved5`, `eRMX_SvcStatus_Reserved6` }

*Realignment Mux service status.*

- enum eSMX\_MFP\_GroupType\_t { eSMX\_MFP\_MultiTS, eSMX\_MFP\_SingleTS\_AllSvc, eSMX\_MFP\_SingleTS\_SelectedSvc, eSMX\_MFP\_GT\_Reserved\_3, eSMX\_MFP\_GT\_Reserved\_4, eSMX\_MFP\_GT\_Reserved\_5, eSMX\_MFP\_GT\_Reserved\_6, eSMX\_MFP\_GT\_Reserved\_7, eSMX\_MFP\_GT\_Reserved\_8, eSMX\_MFP\_GT\_Reserved\_9, eSMX\_MFP\_GT\_Reserved\_10, eSMX\_MFP\_GT\_Reserved\_11, eSMX\_MFP\_GT\_Reserved\_12, eSMX\_MFP\_GT\_Reserved\_13, eSMX\_MFP\_GT\_Reserved\_14, eSMX\_MFP\_GT\_Reserved\_15 }

*Statmux group type.*

- enum eSMX\_MFP\_SvcState { eSMX\_MFP\_SvcState\_StatMux, eSMX\_MFP\_SvcState\_PassThrough, eSMX\_MFP\_SvcState\_CBR, eSMX\_MFP\_SvcState\_CappedVBR, eSMX\_MFP\_SvcState\_PassThroughMeasurable, eSMX\_MFP\_SvcState\_Reserved\_5, eSMX\_MFP\_SvcState\_Reserved\_6, eSMX\_MFP\_SvcState\_Reserved\_7, eSMX\_MFP\_SvcState\_Reserved\_8, eSMX\_MFP\_SvcState\_Reserved\_9, eSMX\_MFP\_SvcState\_Reserved\_10, eSMX\_MFP\_SvcState\_Reserved\_11, eSMX\_MFP\_SvcState\_Reserved\_12, eSMX\_MFP\_SvcState\_Reserved\_13, eSMX\_MFP\_SvcState\_Reserved\_14, eSMX\_MFP\_SvcState\_Reserved\_15 }

*The mode of a service.*

- enum eSMX\_MFP\_SvcMode { eSMX\_MFP\_SvcMode\_StatMux, eSMX\_MFP\_SvcMode\_RateLimit, eSMX\_MFP\_SvcMode\_Reserved\_2, eSMX\_MFP\_SvcMode\_Reserved\_3, eSMX\_MFP\_SvcMode\_Reserved\_4, eSMX\_MFP\_SvcMode\_Reserved\_5, eSMX\_MFP\_SvcMode\_Reserved\_6, eSMX\_MFP\_SvcMode\_Reserved\_7, eSMX\_MFP\_SvcMode\_Reserved\_8, eSMX\_MFP\_SvcMode\_Reserved\_9, eSMX\_MFP\_SvcMode\_Reserved\_10, eSMX\_MFP\_SvcMode\_Reserved\_11, eSMX\_MFP\_SvcMode\_Reserved\_12, eSMX\_MFP\_SvcMode\_Reserved\_13, eSMX\_MFP\_SvcMode\_Reserved\_14, eSMX\_MFP\_SvcMode\_Reserved\_15 }

*The Statmux mode of a service.*

- enum eSMX\_MFP\_PassThroughMode { eSMX\_MFP\_PassThroughMode\_Measured, eSMX\_MFP\_PassThroughMode\_UnMeasured, eSMX\_MFP\_PassThroughMode\_Reserved\_2, eSMX\_MFP\_PassThroughMode\_Reserved\_3, eSMX\_MFP\_PassThroughMode\_Reserved\_4, eSMX\_MFP\_PassThroughMode\_Reserved\_5, eSMX\_MFP\_PassThroughMode\_Reserved\_6, eSMX\_MFP\_PassThroughMode\_Reserved\_7, eSMX\_MFP\_PassThroughMode\_Reserved\_8, eSMX\_MFP\_PassThroughMode\_Reserved\_9, eSMX\_MFP\_PassThroughMode\_Reserved\_10, eSMX\_MFP\_PassThroughMode\_Reserved\_11, eSMX\_MFP\_PassThroughMode\_Reserved\_12, eSMX\_MFP\_PassThroughMode\_Reserved\_13, eSMX\_MFP\_PassThroughMode\_Reserved\_14, eSMX\_MFP\_PassThroughMode\_Reserved\_15 }

*The PassThrough mode of a service.*

- enum eDPI\_Mode { Off, Scte30, Scte35, Manual, Scte35\_Custom, Manual\_Custom, Scte35\_Inserter }

*Defines how to splice a channel.*

- enum eChannelLicenseStatus { ChannelLicenseStatusOk, ChannelLicenseStatusNoDPILicense }
- enum eChannelViewingStatus { ChannelViewingStatusPrimary, ChannelViewingStatusAd }
- enum eSpliceMatchRule { Match, PassMain }
- enum ePmtSpliceMode { FollowPrimary, Generated }

*Enum indicating whether PMT should follow main or must be generated during splice.*

- enum eETV\_PrimaryChannel\_Mode\_t { eMainSvcBlockETV\_Pids, eMainSvcUsePrimaryServiceETV\_Pids, eMainSvcUseOtherServiceETV\_Pids, eMainSvcUseDummyETV\_Pids }
- enum eETV\_InsertionChannel\_Mode\_t { eAdSvcUseInsertionServiceETV\_Pids, eAdSvcUsePrimaryServiceETV\_Pids, eAdSvcUseOtherServiceETV\_Pids, eAdSvcUseDummyETV\_Pids }
- enum eETV\_PrimaryChannel\_Mode\_V2\_t { eMainSvc\_V2\_BlockETV\_Pids, eMainSvc\_V2\_UsePrimaryServiceETV\_Pids, eMainSvc\_V2\_UseOtherServiceETV\_Pids, eMainSvc\_V2\_UseDummyETV\_Pids, eMainSvc\_V2\_MergeEISS\_Pids, eMainSvc\_V2\_Reserved1, eMainSvc\_V2\_Reserved2, eMainSvc\_V2\_Reserved3, eMainSvc\_V2\_Reserved4, eMainSvc\_V2\_Reserved5 }

- enum `eETV_InsertionChannel_Mode_V2_t` { `eAdSvc_V2_UseInsertionServiceETV_Pids`, `eAdSvc_V2_UsePrimaryServiceETV_Pids`, `eAdSvc_V2_UseOtherServiceETV_Pids`, `eAdSvc_V2_UseDummyETV_Pids`, `eAdSvc_V2_MergeEISS_Pids`, `eAdSvc_V2_Reserved1`, `eAdSvc_V2_Reserved2`, `eAdSvc_V2_Reserved3`, `eAdSvc_V2_Reserved4`, `eAdSvc_V2_Reserved5` }
- enum `eScte35Source` { `eScte35Source_Active`, `eScte35Source_Insertion`, `eScte35Source_Other` }
- enum `eRTP` { `eRTP_OFF`, `eRTP_ON` }
- enum `eVLAN` { `eVLAN_OFF`, `eVLAN_ON` }
- enum `eVBR` { `eVBR_OFF`, `eVBR_ON` }
- enum `ePortFilterType` { `ePortFilter_PPC`, `ePortFilter_MPEG` }
- enum `ePortFilterMode` { `ePortFilter_Disabled`, `ePortFilter_MacOnly`, `ePortFilter_IpOnly`, `ePortFilter_MacIp` }
- enum `eArpStatus` { `ArpStatic`, `ArpResolved`, `ArpUnResolved` }
- enum `eDestArpStatus` { `ArpNotApplicable`, `DestStaticArp`, `Multicast`, `GwStaticArp`, `GwResolved`, `GwUnResolved`, `DestResolved`, `DestUnResolved` }
- enum `eDestRoutingStatus` { `RoutingNotApplicable`, `NotRoutable`, `Routable_LAN`, `Routable_GW` }
- enum `eFECDecMode` { `eFEC_DEC_DISABLED`, `eFEC_DEC_1D_MODE`, `eFEC_DEC_2D_MODE`, `eFEC_RTP_REORDER_ONLY` }

*Input mode for FEC decoder.*

- enum `eFECIncrScheme` { `eUDP_OFFSET`, `eIP_OFFSET` }
- FEC stream's increment scheme for default settings (increase IP or UDP)*
- enum `eFECEncMode` { `eFEC_ENC_DISABLED`, `eFEC_ENC_1D_MODE`, `eFEC_ENC_2D_MODE` }

*Output mode for FEC encoder.*

- enum `eFECSendingArrangement` { `ePRO_MPEG_COP3_ANNEX_B`, `ePRO_MPEG_COP3_ANNEX_A` }
- FEC linearity for encoder.*
- enum `eFECErrorMode` { `eFEC_ERROR_GEN_DISABLED`, `eFEC_ERROR_GEN_SINGLE_BURST`, `eFEC_ERROR_GEN_CONTINUOUS` }

*Mode for FEC error generation.*

- enum `enHitlessMergeMode_t` { `eHitlessMergeMode_FollowBoardDefault`, `eHitlessMergeMode_Disabled`, `eHitlessMergeMode_EnabledSameUDP_Socket`, `eHitlessMergeMode_EnabledOtherUDP_Socket`, `eHitlessMergeMode_Reserved1`, `eHitlessMergeMode_Reserved2`, `eHitlessMergeMode_Reserved3`, `eHitlessMergeMode_Reserved4` }

*Hitless merge mode for input TS.*

- enum `enHitlessMergeDefaultMode_t` { `eHitlessMergeDefaultMode_Disabled`, `eHitlessMergeDefaultMode_EnabledSameUDP_Socket`, `eHitlessMergeDefaultMode_Reserved1`, `eHitlessMergeDefaultMode_Reserved2`, `eHitlessMergeDefaultMode_Reserved3`, `eHitlessMergeDefaultMode_Reserved4` }
- enum `enumIGMP_Version` { `eIGMPv2`, `eIGMPv3` }
- enum `enumIGMPv3Filtertype` { `eIGMPv3IncludeSourceList`, `eIGMPv3ExcludeSourceList` }
- enum `eFeatureState` { `eFeatureInvalid`, `eFeatureDisabled`, `eFeatureEnabled` }

*Feature Status.*

- enum `eFeatureType` { `eFeatureUnknown`, `eFeatureInherited`, `eFeatureNative` }

*Feature Type.*

- enum `eFeatureInstallState` { `eFeatureEmpty`, `eFeatureNotInstalled`, `eFeatureInstalled` }

*Install State.*

- enum `eFeatureExpireState` { `eFeatureExpired`, `eFeatureNotExpired` }

*obsolete: not used for temporary licenses a temporary license gives access to all feature during a limited time.*

- enum `eDeviceState` { `eDeviceStateInvalid`, `eDeviceStateMain`, `eDeviceStateBackup`, `eDeviceStateReserved1`, `eDeviceStateReserved2`, `eDeviceStateReserved3`, `eDeviceStateReserved4` }
- enum `eDeviceActiveMode` { `DeviceMode_Active`, `DeviceMode_Inactive` }
- enum `eDeviceRole` { `DeviceRole_Standalone`, `DeviceRole_Main`, `DeviceRole_Backup` }
- enum `eDeviceRole_V2` { `DeviceRole_V2_Standalone`, `DeviceRole_V2_Main`, `DeviceRole_V2_Backup`, `DeviceRole_V2_Single`, `DeviceRole_V2_LiveLive`, `DeviceRole_V2_Reserved_005`, `DeviceRole_V2_Reserved_004`, `DeviceRole_V2_Reserved_003`, `DeviceRole_V2_Reserved_002`, `DeviceRole_V2_Reserved_001` }
- enum `eDBURevertMode` { `DBURevertMode_None`, `DBURevertMode_Revertive`, `DBURevertMode_Floating`, `DBURevertMode_Reserved_003`, `DBURevertMode_Reserved_004`, `DBURevertMode_Reserved_005` }
- enum `eActivationMode` { `ActivationMode_Active`, `ActivationMode_Inactive`, `ActivationMode_Auto` }
- enum `eRestoreOption` { `Restore_NoGbeNetwork`, `Restore_NoDeviceBackup`, `Restore_NoSCS`, `Restore_NoSettingsBackup`, `Restore_NoNTP`, `Restore_NoIPsec`, `Restore_NoStaticRouteMB`, `Restore_NoDcCfgMgr`, `Restore_NoIcmpV2GbE`, `Restore_NoBasicNetwork` }  
*Single settings restore option type. Deprecated, use the V2 versions instead.*
- enum `eRestoreSettingsResult` { `Restore_Done`, `Restore_Reboot`, `Restore_Busy`, `Restore_Error`, `Restore_Result_Reserved1`, `Restore_Result_Reserved2`, `Restore_Result_Reserved3`, `Restore_Result_Reserved4` }  
*Result of the settings restore call.*
- enum `eRestoreOption_V2` { `Restore_V2_NoGbeNetwork`, `Restore_V2_NoDeviceBackup`, `Restore_V2_NoSCS`, `Restore_V2_NoSettingsBackup`, `Restore_V2_NoNTP`, `Restore_V2_NoIPsec`, `Restore_V2_NoStaticRouteMB`, `Restore_V2_NoDcCfgMgr`, `Restore_V2_NoIcmpV2GbE`, `Restore_V2_NoBasicNetwork`, `Restore_V2_NoPsbSec`, `Restore_V2_Reserved_20`, `Restore_V2_Reserved_19`, `Restore_V2_Reserved_18`, `Restore_V2_Reserved_17`, `Restore_V2_Reserved_16`, `Restore_V2_Reserved_15`, `Restore_V2_Reserved_14`, `Restore_V2_Reserved_13`, `Restore_V2_Reserved_12`, `Restore_V2_Reserved_11`, `Restore_V2_Reserved_10`, `Restore_V2_Reserved_9`, `Restore_V2_Reserved_8`, `Restore_V2_Reserved_7`, `Restore_V2_Reserved_6`, `Restore_V2_Reserved_5`, `Restore_V2_Reserved_4`, `Restore_V2_Reserved_3`, `Restore_V2_Reserved_2`, `Restore_V2_Reserved_1` }  
*Single settings restore option type.*
- enum `enMIP_Sync_DeviceRole` { `eMIP_SyncNone`, `eMIP_SyncInitiator`, `eMIP_SyncTarget` }
- enum `eASI_BoardType` { `ASI_BoardRegular`, `ASI_BoardDTF` }  
*Defines the ASI board's sub type.*
- enum `eASI_DTF_ScramblingType` { `DTF_OddScrambling`, `DTF_EvenScrambling` }  
*Defines the scrambling type.*
- enum `MeasureType` { `Binary`, `Analog` }
- enum `MeasureValidity` { `MeasValidity_NotValid`, `MeasValidity_NotDefined`, `MeasValidity_Defined` }
- enum `MM_ID_Category` { `MM_ID_CatAll`, `MM_ID_CatOther`, `MM_ID_CatInput`, `MM_ID_CatOutput` }  
*Rosa Like message categories.*
- enum `MsgSeverity` { `Indeterminate`, `Critical`, `Major`, `Minor`, `Warning`, `Cleared`, `Information` }  
*Rosa like message severity indicators.*
- enum `MsgStatus` { `Open`, `Closed`, `OpenMinorUpper`, `OpenMinorLower`, `OpenMajorUpper`, `OpenMajorLower`, `ClosedMinorUpper`, `ClosedMinorLower`, `ClosedMajorUpper`, `ClosedMajorLower`, `NotDefined`, `NotValid` }  
*Rosa like message status indicators.*
- enum `MsgBehaviour` { `NotPending`, `ClearedByUser`, `ClearedBySystem` }  
*Rosa like message behaviour indicators.*

- enum `MsgClass` { `Communication`, `Quality`, `Processing`, `Equipment`, `Environmental` }
- Rosa like message classes.*
- enum `MM_MeasureStatus` { `AlarmBegin`, `AlarmEnd` }
- enum `DeviceLevel` { `DL_DeviceLevel`, `DL_BoardLevel`, `DL_PortLevel`, `DL_TSLevel`, `DL_ServiceLevel`, `DL_ComponentLevel` }
- enum `eMessage` { `ePAT`, `ePMT`, `eAudioVideoPid`, `eDataPid` }
- enum `eBoardPresenceTrigger_t` { `ePresent`, `eAlways` }
- Defines the triggers for raising a card not operational failure alarm.*
- enum `eServiceBackupMode_t` { `eSBU_NonRevertive`, `eSBU_Revertive`, `eSBU_Floating` }
- enum `ServiceSourcePriority_t` { `eMainPriority`, `eHighestBackupPriority`, `eReservedPriority1`, `eReservedPriority2`, `eReservedPriority3`, `eReservedPriority4`, `eReservedPriority5`, `eReservedPriority6`, `eReservedPriority7` }
- enum `StatMuxMode` { `SMM_Async`, `SMM_Sync`, `SMM_Off` }
- enum `ContentMode` { `CM_AVC_MPEG2_Combined`, `CM_MPEG2` }
- enum `EncoderState` { `ES_OK`, `ES_Disconnected` }
- enum `FrameRateCodes` { `FRAME_RATE_CODE_23_HZ`, `FRAME_RATE_CODE_24_HZ`, `FRAME_RATE_CODE_25_HZ`, `FRAME_RATE_CODE_29_HZ`, `FRAME_RATE_CODE_30_HZ`, `FRAME_RATE_CODE_50_HZ`, `FRAME_RATE_CODE_59_HZ`, `FRAME_RATE_CODE_60_HZ` }
- enum `VideoFormats` { `MQF_VF_SD`, `MQF_VF_HD1080I`, `MQF_VF_HD720P`, `MQF_VF_HDP3` }
- enum `EncoderType` { `ET_MPEG2`, `ET_AVC` }
- enum `BackupType` { `BT_Main`, `BT_Backup` }
- enum `SMX_EnablingMode_e` { `SMX_StatmuxDisabled`, `SMX_StatmuxEnabled`, `SMX_D9036StatmuxEnabled` }
- enum `SMX36_QoSMode_e` { `SMX36_QoSMode_ToS_CoS_Precedence`, `SMX36_QoSMode_Differentiated`, `SMX36_QoSMode_Custom` }
- QoS for D9036 Statmux Device.*
- enum `SMX36_ToS_e` { `SMX36_ToS_Normal`, `SMX36_ToS_MinCost`, `SMX36_ToS_MaxReliability`, `SMX36_ToS_MaxThroughput`, `SMX36_ToS_MinDelay` }
- enum `SMX36_CoS_e` { `SMX36_CoS_Routine`, `SMX36_CoS_Priority`, `SMX36_CoS_Immediate`, `SMX36_CoS_Flash`, `SMX36_CoS_FlashOverride`, `SMX36_CoS_CriticECP`, `SMX36_CoS_InternetworkControl`, `SMX36_CoS_NetworkControl` }
- enum `SMX36_StatmuxControllerBackupState_e` { `SMX36_StatmuxControllerBackupState_Active`, `SMX36_StatmuxControllerBackupState_Inactive` }
- enum `SMX36_PoolSafeRateMode_e` { `SMX36_PoolSafeRateMode_Default`, `SMX36_PoolSafeRateMode_Min`, `SMX36_PoolSafeRateMode_Reserved` }
- enum `SMX36_PoolGuaranteeMinRateMode_e` { `SMX36_PoolGuaranteeMinRateOff`, `SMX36_PoolGuaranteeMinRateON` }
- enum `SMX36_AlgorithmType_e` { `SMX36_AlgorithmType_RateTable`, `SMX36_AlgorithmType_URC`, `SMX36_AlgorithmType_reserved1`, `SMX36_AlgorithmType_reserved2`, `SMX36_AlgorithmType_reserved3`, `SMX36_AlgorithmType_reserved4`, `SMX36_AlgorithmType_reserved5`, `SMX36_AlgorithmType_reserved6`, `SMX36_AlgorithmType_reserved7`, `SMX36_AlgorithmType_reserved8` }
- enum `SMX36_EncoderStatus_e` { `SMX36_EncoderStatus_Disconnected`, `SMX36_EncoderStatus_Connected` }
- enum `SMX36_VSEDelay_e` { `SMX36_VSEDelay_Normal`, `SMX36_VSEDelay_Low`, `SMX36_VSEDelay_High` }
- enum `SMX36_VSEDelay_V2_e` { `SMX36_VSEDelay_V2_Normal`, `SMX36_VSEDelay_V2_Low`, `SMX36_VSEDelay_V2_High`, `SMX36_VSEDelay_Reserved1`, `SMX36_VSEDelay_Reserved2`, `SMX36_VSEDelay_Reserved3`, `SMX36_VSEDelay_Reserved4`, `SMX36_VSEDelay_Reserved5`, `SMX36_VSEDelay_Reserved6` }



- enum SMX36\_VSEStatus\_e { SMX36\_VSEStatus\_Disconnected, SMX36\_VSEStatus\_Running, SMX36\_VSEStatus\_Running\_Safe, SMX36\_VSEStatus\_Not\_Running, SMX36\_VSEStatus\_CBR, SMX36\_VSEStatus\_Capped\_VBR }
- enum SMX36\_VSEBitRateMode\_e { SMX36\_VSEBitRateMode\_Manual, SMX36\_VSEBitRateMode\_Auto, SMX36\_VSEBitRateMode\_reserved }
- enum SMX\_VSEBackupState\_e { SMX36\_VSEBackupStat\_no, SMX36\_VSEBackupStat\_yes }
- enum SMX36\_VSE\_Codec\_e { SMX36\_VSE\_Codec\_Unknown, SMX36\_VSE\_Codec\_Mpeg2, SMX36\_VSE\_Codec\_Avc, SMX36\_VSE\_Codec\_Reserved1, SMX36\_VSE\_Codec\_Reserved2, SMX36\_VSE\_Codec\_Reserved3, SMX36\_VSE\_Codec\_Reserved4, SMX36\_VSE\_Codec\_Reserved5, SMX36\_VSE\_Codec\_Reserved6 }
- enum SMX36\_VSE\_Format\_e { SMX36\_VSE\_Format\_Unknown, SMX36\_VSE\_Format\_SD, SMX36\_VSE\_Format\_HD, SMX36\_VSE\_Format\_Reserved1, SMX36\_VSE\_Format\_Reserved2, SMX36\_VSE\_Format\_Reserved3, SMX36\_VSE\_Format\_Reserved4, SMX36\_VSE\_Format\_Reserved5, SMX36\_VSE\_Format\_Reserved6 }
- enum SMX36\_Video\_Rate\_Mode\_e { SMX36\_Video\_Rate\_Mode\_Ignore, SMX36\_Video\_Rate\_Mode\_Statmux, SMX36\_Video\_Rate\_Mode\_CBR, SMX36\_Video\_Rate\_Mode\_Capped\_VBR, SMX36\_Video\_Rate\_Mode\_Reserved1, SMX36\_Video\_Rate\_Mode\_Reserved2, SMX36\_Video\_Rate\_Mode\_Reserved3, SMX36\_Video\_Rate\_Mode\_Reserved4, SMX36\_Video\_Rate\_Mode\_Reserved5, SMX36\_Video\_Rate\_Mode\_Reserved6, SMX36\_Video\_Rate\_Mode\_Reserved7, SMX36\_Video\_Rate\_Mode\_Reserved8 }
- enum SMX36\_VSEBackupState\_e { SMX36\_VSEBackupState\_inactive, SMX36\_VSEBackupState\_active, SMX36\_VSEBackupState\_reserved }
- enum SMX36\_VSEBackupState\_V2\_e { SMX36\_VSEBackupState\_inactive\_V2, SMX36\_VSEBackupState\_active\_V2, SMX36\_VSEBackupState\_inactive\_Safeguard, SMX36\_VSEBackupState\_active\_Safeguard, SMX36\_VSEBackupState\_reserved\_5, SMX36\_VSEBackupState\_reserved\_6, SMX36\_VSEBackupState\_reserved\_7, SMX36\_VSEBackupState\_reserved\_8, SMX36\_VSEBackupState\_reserved\_9, SMX36\_VSEBackupState\_reserved\_10 }
- enum eExtIpServices { eIpServiceIIOP, eIpServiceSSH, eIpServiceFTP, eIpServiceSNMP, eIpServiceIPConfig, eIpServiceTelnet, eIpServiceSNMPSvcConf, eIpService\_Reserved\_9, eIpService\_Reserved\_8, eIpService\_Reserved\_7, eIpService\_Reserved\_6, eIpService\_Reserved\_5, eIpService\_Reserved\_4, eIpService\_Reserved\_3, eIpService\_Reserved\_2, eIpService\_Reserved\_1, eIpService\_Reserved\_0 }

*IP services that are externally visible and that can be configured.*

- enum enPSbSocketType { ePsbSocketTypeTcp, ePsbSocketTypeUdp, ePsbSocketTypeTcp6, ePsbSocketTypeUdp6, ePsbSocketTypeReserved7, ePsbSocketTypeReserved6, ePsbSocketTypeReserved5, ePsbSocketTypeReserved4, ePsbSocketTypeReserved3, ePsbSocketTypeReserved2, ePsbSocketTypeReserved1, ePsbSocketTypeReserved0 }

*Transport layer protocol type of a socket.*

- enum eEcmgType { EcmgStandard, M\_Crypt, Nagra, Hitachi }

*ECMG type.*

- enum eEcmgType\_V2 { EcmgType\_Standard, EcmgType\_M\_Crypt, EcmgType\_Nagra, EcmgType\_Hitachi, EcmgType\_PowerVu, EcmgType\_Reserved5, EcmgType\_Reserved6, EcmgType\_Reserved7, EcmgType\_Reserved8 }

*ECMG type.*

- enum eEcmPidSource { EcmId, EcmPidSourceAuto }

*ECM pid source.*

- enum eEcmgChannelIdMode { EcmgChannelIdManual, EcmgChannelIdAuto }

*ECMG channel\_id allocation.*

- enum eEcmgConnectionStatus { EcmgClosed, EcmgTryingToConnect, EcmgEstablishingChannel, EcmgChannelOpen }

- ECMG connection status.*

  - enum [eEcmgDescRuleType](#) { [EcmgAddPrivateData](#), [EcmgDoNotInsertDescriptor](#) }

*Type of ECMG descriptor rule.*
- enum [eDescInsertionLevel](#) { [FollowScg](#), [InsertAtESLevel](#) }

*Insertion level of ECMG descriptor in PMT.*
- enum [eDescInsertionLevel\\_V2](#) { [FollowScg\\_V2](#), [InsertAtESLevel\\_V2](#), [InsertAtServiceLevel\\_V2](#), [eDescInsertionLevel\\_V2\\_Reserved4](#), [eDescInsertionLevel\\_V2\\_Reserved5](#), [eDescInsertionLevel\\_V2\\_Reserved6](#) }

*Insertion level of ECMG descriptor in PMT.*
- enum [eDataSocket](#) { [TCP](#), [UDP](#) }

*Type of data for socket.*
- enum [eEmmPidSource](#) { [StreamId](#), [ChannelId](#), [DataId](#), [PacketId](#), [EmmPidSourceAuto](#) }

*EMM pid source.*
- enum [eEmmSectionGrouping](#) { [NoGrouping](#), [Grouping](#) }

*Enable/disable section grouping for EMM's.*
- enum [eConnectionState](#) { [EmmWaitingForConnect](#), [EmmWaitingForChannel](#), [EmmChannelOpen](#) }
- enum [eEmmgDescRuleType](#) { [EmmgAddPrivateData](#), [EmmgDoNotInsertDescriptor](#) }

*Type of EMMG descriptor rule.*
- enum [eEisType](#) { [SaEis](#), [CaVendorEis](#) }

*EIS type.*
- enum [eCwgType](#) { [CwgType\\_PowerVu](#), [CwgType\\_Reserved2](#), [CwgType\\_Reserved3](#) }

*CWG proxy type.*
- enum [eCwgChannelIdMode](#) { [CwgChannelIdManual](#), [CwgChannelIdAuto](#) }

*CWG channel\_id allocation.*
- enum [eCwgConnectionStatus](#) { [CwgClosed](#), [CwgTryingToConnect](#), [CwgEstablishingChannel](#), [CwgChannelOpen](#) }

*CWG connection status.*
- enum [enEncryptionAlgorithm](#) { [eCSA\\_Encryption](#), [eDES\\_Encryption](#), [eEncryptionAlgorithm\\_Reserved2](#), [eEncryptionAlgorithm\\_Reserved3](#), [eEncryptionAlgorithm\\_Reserved4](#), [eEncryptionAlgorithm\\_Reserved5](#), [eEncryptionAlgorithm\\_Reserved6](#), [eEncryptionAlgorithm\\_Reserved7](#), [eEncryptionAlgorithm\\_Reserved8](#), [eEncryptionAlgorithm\\_Reserved9](#), [eEncryptionAlgorithm\\_Reserved10](#) }

*Scrambling algorithm.*
- enum [enScramblingAction](#) { [eScrambling](#), [eDescrambling](#) }

*Scrambling action.*
- enum [enScramblingMode](#) { [eDvbScrambling](#), [eBissScrambling](#) }

*Scrambling mode.*
- enum [enOperatingMode\\_t](#) { [ePowerVu](#), [ePowerVuSimulcrypt](#), [eSimulcrypt](#), [eOperatingMode\\_Reserved4](#), [eOperatingMode\\_Reserved5](#) }

*Operating mode (PowerVu specific).*
- enum [enScramblingMode\\_V2](#) { [eDvbScrambling\\_V2](#), [eBissScrambling\\_V2](#), [eTierBasedScrambling\\_V2](#), [eScramblingMode\\_V2\\_Reserved4](#), [eScramblingMode\\_V2\\_Reserved5](#), [eScramblingMode\\_V2\\_Reserved6](#) }

*Scrambling mode.*
- enum [eDescrType\\_t](#) { [eDescrType\\_CAM](#), [eDescrType\\_BISS](#), [eDescrType\\_Reserved1](#), [eDescrType\\_Reserved2](#), [eDescrType\\_Reserved3](#) }

*The different descrambling resource types.*
- enum [eDescrEnabledMode\\_t](#) { [eDescrEnabledMode\\_Disabled](#), [eDescrEnabledMode\\_Service](#), [eDescrEnabledMode\\_Component](#), [eDescrEnabledMode\\_Reserved1](#), [eDescrEnabledMode\\_Reserved2](#), [eDescrEnabledMode\\_Reserved3](#) }



*Represents how a service needs to be descrambled.*

- enum `eCaPmtListManagement_t` { `eCaPmtListManagement_AddDelete`, `eCaPmtListManagement_UpdateAll`, `eCaPmtListManagement_Reserved1`, `eCaPmtListManagement_Reserved2`, `eCaPmtListManagement_Reserved3` }

*Represents how CA PMT lists need to be updated towards the CAM.*

- enum `enumEasProtocol_t` { `eEasProtocol_SCTE18`, `eEasProtocol_CAP12`, `eEasProtocol_Reserved1`, `eEasProtocol_Reserved2`, `eEasProtocol_Reserved3`, `eEasProtocol_Reserved4`, `eEasProtocol_Reserved5` }

*Represents the protocol used by the EAS proxy.*

- enum `enumEasSocketType_t` { `eEasSocketType_UDP_Unicast`, `eEasSocketType_UDP_Multicast`, `eEasSocketType_UDP_Broadcast`, `eEasSocketType_Reserved1`, `eEasSocketType_Reserved2`, `eEasSocketType_Reserved3`, `eEasSocketType_Reserved4`, `eEasSocketType_Reserved5` }

*Represents the socket type.*

- enum `enGPS_ClockImpedance` { `eHighImpedant`, `e50Ohm` }
- enum `enGPS_1PPS_SliceLevel` { `eAutomaticDetection`, `eManualSetting` }
- enum `enGPS_1PPS_Edge` { `eRisingEdge`, `eFallingEdge` }
- enum `enGPS_10MHz_Invert` { `eNotInverted`, `eInverted` }
- enum `enGPS_LED` { `eLED_Off`, `eLED_On` }
- enum `enSFN_Mode` { `eSFN_Disable`, `eSFN_Enable` }
- enum `enConstellation` { `eQPSK`, `e16_QAM`, `e64_QAM` }
- enum `enHierarchyAndInterleaving` { `eNonHierarchical`, `eAlpha1`, `eAlpha2`, `eAlpha4` }
- enum `enCodeRate` { `e1_Over_2`, `e2_Over_3`, `e3_Over_4`, `e5_Over_6`, `e7_Over_8` }
- enum `enGuardInterval` { `e1_Over_32`, `e1_Over_16`, `e1_Over_8`, `e1_Over_4` }
- enum `enFFT_Mode` { `e2K_Mode`, `e8K_Mode` }
- enum `enChannelBandwidth` { `e7_MHz`, `e8_MHz`, `e6_MHz` }
- enum `enTS_Priority` { `eLowPriorityTS`, `eNonHierarchicalOrHighPriorityTS` }
- enum `enDVB_H_Timeslicing` { `eNoTimeSlicing`, `eTimeSlicing` }
- enum `enDVB_H_MPE_FEC` { `eMPE_FEC_NotUsed`, `eMPE_FEC_Used` }
- enum `enASI_SFN_MKII_BoardMode` { `eASI_SFN_MKII_Regular`, `eASI_SFN_MKII_Deterministic-Remultiplexing` }
- enum `enASI_SFN_MKII_TS_Output_Mode` { `eASI_SFN_MKII_TS_Output_Main`, `eASI_SFN_MKII_TS_Output_RDCS`, `eASI_SFN_MKII_TS_Output_MainandRDCS` }
- enum `eGbeSpeedMode_t` { `e1Gbps`, `e10Gbps`, `eGbeSpeed_Reserved1`, `eGbeSpeed_Reserved2` }
- enum `eSDI_NoStreamMode_t` { `eBlackFrame`, `e0Vdc`, `eNoStream_Reserved1`, `eNoStream_Reserved2`, `eNoStream_Reserved3`, `eNoStream_Reserved4`, `eNoStream_Reserved5` }
- enum `enDCG_BoardMode_t` { `eDCG_BoardMode_IP_GW`, `eDCG_BoardMode_ASI_GW`, `eDCG_BoardMode_Reserved_1`, `eDCG_BoardMode_Reserved_2`, `eDCG_BoardMode_Reserved_3`, `eDCG_BoardMode_Reserved_4`, `eDCG_BoardMode_Reserved_5` }
- enum `enMValue_t` { `eM1_000`, `eM1_001` }
- enum `eVideoFormat_t` { `eSD`, `eHD`, `e3G`, `eAES`, `eVideoFormat_Reserved1`, `eVideoFormat_Reserved2`, `eVideoFormat_Reserved3` }
- enum `eTxClockingMode_t` { `eFreeRunning`, `eAdaptiveRecovery`, `eGenLocked` }

*Describes the output clocking mode when RTP is routed to SDI.*

- enum `eDCG_StreamingState` { `DCG_Streaming_Active`, `DCG_Streaming_Paused`, `eDCG_Streaming_Reserved1`, `eDCG_Streaming_Reserved2`, `eDCG_Streaming_Reserved3` }

*Describes if the TS is streaming or not.*

- enum `eGbePortType_t` { `eGbePort_PairType`, `eGbePort_IndividualType` }
- enum `eFrameRate_t` { `e24fps`, `e25fps`, `e30fps`, `e50fps`, `e60fps`, `e29_97fps`, `e59_94fps`, `eDCG_FramerRate_Reserved1`, `eDCG_FramerRate_Reserved2`, `eDCG_FramerRate_Reserved3`, `eDCG_FramerRate_Reserved4`, `eDCG_FramerRate_Reserved5` }

- enum `eAspectRatio_t` { `e4_3`, `e16_9`, `e14_9`, `eNot_Available`, `eAspectRatio_Reserved2`, `eAspectRatio_Reserved3`, `eAspectRatio_Reserved4`, `eAspectRatio_Reserved5` }
- enum `eFrameBuildUp_t` { `eProgressive`, `eInterlaced`, `eFrameBuildUp_Reserved1`, `eFrameBuildUp_Reserved2`, `eFrameBuildUp_Reserved3` }
- enum `eSDI_GeneratorMode_t` { `e3G_1080P_60`, `e3G_1080P_59_94`, `e3G_1080P_50`, `eHD_1080P_30`, `eHD_1080P_29_97`, `eHD_1080P_25`, `eHD_720P_60`, `eHD_720P_59_94`, `eHD_720P_50`, `eHD_1080I_30`, `eHD_1080I_29_97`, `eHD_1080I_25`, `eSD_525I_29_97`, `eSD_625I_25`, `eSDI_GeneratorMode_Reserved1`, `eSDI_GeneratorMode_Reserved2`, `eSDI_GeneratorMode_Reserved3` }
- enum `eSDI_ColorOutputMode_t` { `eOM_Static`, `eOM_RGB_Cycling`, `eOM_Reserved1`, `eOM_Reserved2`, `eOM_Reserved3` }
- enum `eAES_SampleRate_t` { `eAES_SampleRate_48kHz`, `eAES_SampleRate_Reserved1`, `eAES_SampleRate_Reserved2`, `eAES_SampleRate_Reserved3` }
- enum `eAES_WaveMode_t` { `eAES_WaveMode_PureTone`, `eAES_WaveMode_Reserved1`, `eAES_WaveMode_Reserved2`, `eAES_WaveMode_Reserved3` }
- enum `eAES_WaveModeDetail_t` { `eAES_PureTone_Silence`, `eAES_PureTone_100Hz`, `eAES_PureTone_500Hz`, `eAES_WaveModeDetail_Reserved1`, `eAES_WaveModeDetail_Reserved2`, `eAES_WaveModeDetail_Reserved3` }
- enum `eNegotiatedGbePortSpeed_t` { `ePortSpeed_NotAvailable`, `ePortSpeed_10Mbps`, `ePortSpeed_100Mbps`, `ePortSpeed_1Gbps`, `ePortSpeed_10Gbps`, `ePortSpeed_Reserved1`, `ePortSpeed_Reserved2` }
- enum `eDCG_StreamBackupMode_t` { `eNonRevertive`, `eRevertive`, `eFloating`, `eReserved1`, `eReserved2`, `eReserved3`, `eReserved4`, `eReserved5` }

*IDLs for implementing Stream backup on the IP Adapter.*

- enum `enDCG_3G_Topology_t` { `eNo3G`, `eOne3G`, `eTwo3G`, `eThree3G`, `eReserved_DCG_3G_1`, `eReserved_DCG_3G_2`, `eReserved_DCG_3G_3` }
- enum `enDCG_AudioStatus_t` { `eAudioSt_NotPresent`, `eAudioSt_Present`, `eAudioSt_Error` }

*Describes Status of an audio channel (left or right).*

- enum `enDCG_AudioResolution_t` { `eDCG_AudioResolution_20bit`, `eDCG_AudioResolution_24bit`, `eDCG_AudioResolution_Invalid`, `eReserved_AudioResolution1` }
- enum `enDCG_CompressionMode_t` { `eUncompressed`, `eEnableJP2K`, `eCompressionEnable_Reserved1`, `eCompressionEnable_Reserved2`, `eCompressionEnable_Reserved3`, `eCompressionEnable_Reserved4` }
- enum `enDCG_JP2K_CompressionMode_t` { `e9_7`, `e5_3`, `eJP2K_CompressionMode_Reserved` }
- enum `enDCG_JP2K_Topology_t` { `e3Dec_3Enc`, `e3Dec`, `e3Enc`, `e6Dec`, `e6Enc`, `eTopology_JP2K_Reserved1`, `eTopology_JP2K_Reserved2`, `eTopology_JP2K_Reserved3`, `eTopology_JP2K_Reserved4`, `eTopology_JP2K_Reserved5`, `eTopology_JP2K_Reserved6` }
- enum `enDCG_HitlessSwitchOverMode_t` { `eDisableHitlessSwitchOver`, `eEnableHitlessSwitchOver`, `eHitlessReserved1`, `eHitlessReserved2`, `eHitlessReserved3`, `eHitlessReserved4` }
- enum `eGPI_IO_t` { `eInput`, `eOutput` }
- enum `eGPI_Assert_t` { `eLow`, `eHigh` }
- typedef sequence< octet > `ByteStream`

*A sequence of bytes.*

- typedef sequence< long > `LongStream`

*A sequence of longs.*

- typedef sequence< `MM_ID_t` > `MM_IDList`

*A sequence of `MM_ID_t`.*

- typedef sequence< unsigned short > `MM_TypeIDList`

*A sequence of `MM_TypeID`'s.*

- typedef sequence< string > `IP_List_t`
- typedef sequence< `NTP_Info_t` > `NTP_Info_List_t`

- typedef sequence < [Table\\_Sync\\_Info\\_t](#) > [Table\\_Sync\\_Info\\_List\\_t](#)  
*A list of [Table\\_Sync\\_Info\\_t](#) entries.*
- typedef sequence< [NotifData\\_t](#) > [NotifList\\_t](#)
- typedef sequence< [TrapDestination](#) > [TrapDestinationList](#)  
*A sequence of [TrapDestination](#) entries.*
- typedef sequence< [SNMPCommunity](#) > [SNMPCommunityList](#)  
*A sequence of [SNMPCommunity](#) entries.*
- typedef sequence< string > [IPAddressList](#)  
*SNMP host access restrictions (actually a list of strings.).*
- typedef sequence< [VersionInfo](#) > [VersionInfoList](#)  
*A sequence of [VersionInfo](#).*
- typedef sequence < [BoardIdentification](#) > [BoardIdentificationList](#)
- typedef sequence < [UniqueDeviceId\\_t](#) > [UniqueDeviceIdList\\_t](#)  
*A sequence of [UniqueDeviceIdList](#) entries.*
- typedef sequence < [ModuleExceptionTrace\\_t](#) > [ModuleExceptionTraceList\\_t](#)
- typedef sequence< [BoardInfo\\_t](#) > [BoardInfo\\_List\\_t](#)  
*A sequence of [BoardInfo\\_t](#) entries.*
- typedef sequence< [BoardInfo\\_V2\\_t](#) > [BoardInfo\\_List\\_V2\\_t](#)  
*A sequence of [BoardInfo\\_V2\\_t](#) entries.*
- typedef sequence< [BoardCfg\\_t](#) > [BoardCfg\\_List\\_t](#)  
*A sequence of [BoardCfg\\_t](#) entries.*
- typedef sequence< [BoardCfg\\_V2\\_t](#) > [BoardCfg\\_V2\\_List\\_t](#)  
*A sequence of [BoardCfg\\_V2\\_t](#) entries.*
- typedef sequence< unsigned short > [PortList\\_t](#)  
*A sequence of shorts used to filter ports.*
- typedef sequence< unsigned short > [BoardList\\_t](#)  
*A sequence of shorts used to filter boards.*
- typedef sequence < [ComponentTemperature\\_t](#) > [ComponentTemperature\\_List\\_t](#)
- typedef sequence < [BoardTemperature\\_t](#) > [BoardTemperature\\_List\\_t](#)
- typedef sequence< [IP\\_Subnet\\_t](#) > [IP\\_SubnetList\\_t](#)  
*A sequence of [IP\\_Subnet\\_t](#).*
- typedef sequence< [IPS\\_Ref\\_t](#) > [NicTeam\\_MemberList\\_t](#)
- typedef sequence < [NicTeam\\_MemberStatus\\_t](#) > [NicTeam\\_MemberStatusList\\_t](#)
- typedef sequence< [IPS\\_RefTS\\_t](#) > [IPS\\_RefTS\\_List\\_t](#)  
*A sequence of [IPS\\_RefTS\\_t](#).*
- typedef sequence< unsigned long > [Ref\\_List\\_t](#)  
*List of Ref's (In this case TS index's) to allow filtering.*
- typedef sequence < [Debug\\_Gbe\\_InputTS\\_t](#) > [Debug\\_Gbe\\_InputTS\\_List\\_t](#)  
*A sequence of [IPS\\_Gbe\\_InputTS\\_t](#) entries.*
- typedef sequence< [IPS\\_InputTS\\_t](#) > [IPS\\_InputTS\\_List\\_t](#)  
*A sequence of [IPS\\_InputTS\\_t](#) entries.*
- typedef sequence < [IPS\\_Gbe\\_InputTS\\_t](#) > [IPS\\_Gbe\\_InputTS\\_List\\_t](#)  
*A sequence of [IPS\\_Gbe\\_InputTS\\_t](#) entries.*
- typedef sequence < [IPS\\_ChangeInputTS\\_t](#) > [IPS\\_ChangeInputTS\\_List\\_t](#)  
*A sequence of [IPS\\_ChangeInputTS\\_t](#) entries.*
- typedef sequence < [Debug\\_Gbe\\_OutputTS\\_t](#) > [Debug\\_Gbe\\_OutputTS\\_List\\_t](#)  
*A sequence of [Debug\\_Gbe\\_OutputTS\\_t](#) entries.*

- typedef sequence < [IPS\\_OutputTS\\_t](#) > [IPS\\_OutputTS\\_List\\_t](#)  
*A sequence of [IPS\\_OutputTS\\_t](#) entries.*
- typedef sequence < [IPS\\_OutputTS\\_V2\\_t](#) > [IPS\\_OutputTS\\_List\\_V2\\_t](#)  
*A sequence of [IPS\\_OutputTS\\_V2\\_t](#) entries.*
- typedef sequence < [IPS\\_LookupTS\\_t](#) > [IPS\\_LookupTS\\_List\\_t](#)  
*A sequence of [IPS\\_LookupTS\\_t](#) entries.*
- typedef sequence < [IPS\\_ReferenceTS\\_t](#) > [IPS\\_ReferenceTS\\_List\\_t](#)  
*A sequence of [IPS\\_ReferenceTS\\_t](#) entries.*
- typedef sequence < [IPS\\_OutPID\\_Data\\_t](#) > [IPS\\_OutPID\\_DataList\\_t](#)  
*A sequence of [IPS\\_OutPID\\_Data\\_t](#).*
- typedef sequence < [IPS\\_OutPID\\_Data2\\_t](#) > [IPS\\_OutPID\\_Data2List\\_t](#)  
*A sequence of [IPS\\_OutPID\\_Data2\\_t](#).*
- typedef sequence < [IPS\\_InPID\\_Data\\_t](#) > [IPS\\_In\\_PID\\_List\\_t](#)  
*A sequence of [IPS\\_InPID\\_Data\\_t](#).*
- typedef sequence < [IPS\\_InPID\\_Data\\_V2\\_t](#) > [IPS\\_In\\_PID\\_List\\_V2\\_t](#)  
*A sequence of [IPS\\_InPID\\_Data\\_V2\\_t](#).*
- typedef sequence < [InEMM\\_Ref\\_t](#) > [InEMM\\_RefList\\_t](#)  
*A sequence of [InEMM\\_Ref\\_t](#).*
- typedef sequence < [EMM\\_Data\\_t](#) > [EMM\\_DataList\\_t](#)  
*a sequence of [EMM\\_Data\\_t](#)*
- typedef sequence < [SI\\_Table\\_Period\\_t](#) > [SI\\_Table\\_Period\\_List\\_t](#)
- typedef sequence < [SI\\_Table\\_GenerationMode\\_t](#) > [SI\\_Table\\_GenerationMode\\_List\\_t](#)
- typedef sequence < [TS\\_SI\\_Table\\_Periods\\_t](#) > [TS\\_SI\\_Table\\_Periods\\_List\\_t](#)
- typedef sequence < [TableKeys\\_t](#) > [TableKeys\\_List\\_t](#)
- typedef sequence < [TOT\\_Timezone\\_t](#) > [TOT\\_Timezone\\_List\\_t](#)
- typedef sequence < [TS\\_TOT\\_Timezone\\_t](#) > [TS\\_TOT\\_Timezone\\_List\\_t](#)
- typedef sequence < char > [RoutingFileData\\_t](#)
- typedef sequence < [RoutingStatusRecord\\_t](#) > [RoutingStatusRecord\\_List\\_t](#)
- typedef sequence < char > [charSequence](#)
- typedef sequence < [IPS\\_RefPid\\_t](#) > [IPS\\_RefPidList\\_t](#)  
*A sequence of [IPS\\_RefPid\\_t](#).*
- typedef sequence < unsigned short > [PID\\_List\\_t](#)  
*PID range: 0..8190.*
- typedef sequence < [CompPidES\\_t](#) > [CompPidESList\\_t](#)  
*A sequence of [CompPidES\\_t](#).*
- typedef sequence < [CompPidES\\_V2\\_t](#) > [CompPidESList\\_V2\\_t](#)  
*A sequence of [CompPidES\\_V2\\_t](#).*
- typedef sequence < [TS\\_AutoPassRules](#) > [TS\\_AutoPassRules\\_List\\_t](#)  
*A sequence of [TS\\_AutoPassRules](#).*
- typedef sequence < [SI\\_AutoPassRules\\_t](#) > [SI\\_AutoPassRules\\_List\\_t](#)
- typedef sequence < [OutTS\\_InsertCATDescriptors\\_t](#) > [OutTS\\_InsertCATDescriptors\\_List\\_t](#)
- typedef sequence < [InTS\\_TimeBaseSelectionMode\\_t](#) > [InTS\\_TimeBaseSelectionMode\\_List\\_t](#)
- typedef sequence < [InTS\\_TimeBaseSelectionMode\\_V2\\_t](#) > [InTS\\_TimeBaseSelectionMode\\_List\\_V2\\_t](#)
- typedef sequence < [InTsExistenceReasons\\_t](#) > [InTsExistenceReasonsList\\_t](#)  
*A sequence of [InTsExistenceReasons\\_t](#).*
- typedef sequence < [GbeIO\\_IP\\_Settings\\_t](#) > [GbeIO\\_IP\\_Settings\\_List\\_t](#)

- A sequence of GbeIO\_IPv6\_t entries.*
  - typedef sequence < ForbiddenPidRange\_t > ForbiddenPidRange\_List\_t
  - A sequence of ForbiddenPidRange\_t entries.*
  - typedef sequence < OutTS\_NitInPat\_t > OutTS\_NitInPat\_List\_t
  - typedef sequence < InTS\_PriorityBit\_t > InTS\_PriorityBit\_List\_t
  - A sequence of ChangePrioBitInputTS\_t entries.*
  - typedef sequence < IPS\_OutputTS\_LT\_t > IPS\_OutputTS\_LT\_List\_t
  - A sequence of IPS\_OutputTS\_LT\_t entries.*
  - typedef sequence < IPS\_OutputTS\_LT\_V2\_t > IPS\_OutputTS\_LT\_List\_V2\_t
  - A sequence of IPS\_OutputTS\_LT\_V2\_t entries.*
  - typedef sequence < PortTsSvcProps\_t > PortTsSvcProps\_List\_t
  - typedef unsigned long ServiceId\_t
  - service id type*
  - typedef sequence< IPS\_Service\_t > IPS\_Service\_List\_t
  - A sequence of IPS\_Service\_t.*
  - typedef unsigned long AlternateSrcId\_t
  - alternate source id type*
  - typedef sequence< ServiceId\_t > ServiceIdList\_t
  - List of service ID's to use as a filter in IPS\_InServiceGetL() and IPS\_OutServiceGetL().*
  - typedef sequence< octet > DvbString\_t
  - typedef sequence < IPS\_Service\_In\_t > IPS\_ServiceIn\_List\_t
  - A sequence of IPS\_Service\_In\_t.*
  - typedef sequence < IPS\_ServiceData\_Out\_t > IPS\_ServiceDataOut\_List\_t
  - A sequence of IPS\_ServiceData\_Out\_t entries.*
  - typedef sequence< IPS\_RefSvc\_t > IPS\_RefSvc\_List\_t
  - A sequence of IPS\_RefSvc\_t entries.*
  - typedef sequence< unsigned short > SidList\_t
  - typedef sequence < IPS\_ServiceData\_Out\_V2\_t > IPS\_ServiceDataOut\_List\_V2\_t
  - A sequence of IPS\_ServiceData\_Out\_V2\_t entries.*
  - typedef sequence < IPS\_ServiceData\_Out\_V3\_t > IPS\_ServiceDataOut\_List\_V3\_t
  - A sequence of IPS\_ServiceData\_Out\_V3\_t entries.*
  - typedef sequence < ServiceBlockCAInfo\_t > ServiceBlockCAInfo\_List\_t
  - A sequence of ServiceBlockCAInfo\_t entries.*
  - typedef sequence < TC\_ServiceData\_t > TC\_ServiceData\_List\_t
  - A sequence of TC\_ServiceData\_t entries.*
  - typedef sequence < MergeCriterium\_t > MergeCriteriumList\_t
  - typedef sequence < ComponentMergeCriterium\_t > ComponentMergeCriteriumList\_t
  - typedef sequence < IPS\_MergedInService\_t > IPS\_MergedInServiceList\_t
  - typedef sequence < AlternateSrcId\_t > AlternateSrcIdList\_t
  - typedef sequence < AltSrcMergedSetting\_t > AltSrcMergedSettingList\_t
  - A sequence of AlternateSvcMergedList\_t elements.*
  - typedef unsigned long SourceType\_t
  - bitmap : bit 0 means it is an alternate source < bit 1 means it is a TS backup source < bit 2 means it is a service backup source < bit 3 means it is a merged service source < bit 4 means it is a merged component source < bit 5 means it is a LPI or Ad source < bit 6 means it is an EBIF source < no bits set means it is the main service that was routed*
  - typedef sequence< SourceType\_t > IPS\_Serv\_Source\_List\_t
  - typedef sequence< IPS\_Serv\_Dest\_t > IPS\_Serv\_Dest\_List\_t

- typedef sequence < [TC\\_ServiceDataV2\\_t](#) > [TC\\_ServiceDataV2\\_List\\_t](#)  
A sequence of [TC\\_ServiceData\\_t](#) entries.
- typedef sequence < [ServicePIDStatus\\_t](#) > [ServicePIDStatus\\_List\\_t](#)  
A sequence of [ServicePIDStatus\\_t](#).
- typedef sequence < [ServiceCompSettings\\_t](#) > [ServiceCompSettingsList\\_t](#)  
A sequence of [ServiceCompSettings\\_t](#).
- typedef sequence < [ComponentTag\\_t](#) > [ComponentTagList\\_t](#)  
A sequence of [ComponentTag\\_t](#).
- typedef sequence < [ComponentTrackRule\\_t](#) > [ComponentTrackRuleList\\_t](#)  
A sequence of [ComponentTrackRule\\_t](#).
- typedef sequence < [ComponentTrackRule\\_V2\\_t](#) > [ComponentTrackRuleList\\_V2\\_t](#)  
A sequence of [ComponentTrackRule\\_V2\\_t](#).
- typedef sequence < [DefaultTrackRule\\_t](#) > [DefaultTrackRuleList\\_t](#)  
A sequence of [DefaultTrackRule\\_t](#).
- typedef sequence < [ES\\_TypeSetting\\_t](#) > [ES\\_TypeSettingList\\_t](#)
- typedef sequence < [SvcOutES\\_TypeSetting\\_t](#) > [SvcOutES\\_TypeSettingList\\_t](#)
- typedef sequence < [ServiceES\\_t](#) > [ServiceES\\_List\\_t](#)  
A sequence of [ServiceES\\_t](#).
- typedef sequence < [IPS\\_LanguageSettings\\_t](#) > [LanguageList\\_t](#)  
A sequence of [IPS\\_LanguageSettings\\_t](#).
- typedef sequence < [IPS\\_Out\\_ECMSettings\\_t](#) > [IPS\\_Out\\_ECMSettingsTree\\_t](#)  
A sequence of [IPS\\_Out\\_ECMSettings\\_t](#).
- typedef sequence < [IPS\\_Out\\_ESSettings\\_t](#) > [IPS\\_Out\\_ESSettingsTree\\_t](#)  
A sequence of [IPS\\_Out\\_ESSettings\\_t](#).
- typedef sequence < [IPS\\_Out\\_ServiceComponents\\_t](#) > [IPS\\_Out\\_ServiceComponents\\_List\\_t](#)  
A sequence of [IPS\\_Out\\_ServiceComponents\\_t](#).
- typedef sequence < [IPS\\_Out\\_ESSettings\\_V2\\_t](#) > [IPS\\_Out\\_ESSettingsTree\\_V2\\_t](#)  
A sequence of [IPS\\_Out\\_ESSettings\\_V2\\_t](#).
- typedef sequence < [IPS\\_Out\\_ServiceComponents\\_V2\\_t](#) > [IPS\\_Out\\_ServiceComponents\\_List\\_V2\\_t](#)  
A sequence of [IPS\\_Out\\_ServiceComponents\\_V2\\_t](#).
- typedef sequence < [PcrSetting\\_t](#) > [PcrSettingList\\_t](#)
- typedef sequence < [IPS\\_In\\_ECMSettings\\_t](#) > [IPS\\_In\\_ECMSettingsTree\\_t](#)  
A sequence of [IPS\\_In\\_ECMSettings\\_t](#).
- typedef sequence < [IPS\\_In\\_ESSettings\\_t](#) > [IPS\\_In\\_ESSettingsTree\\_t](#)  
A sequence of [IPS\\_In\\_ESSettings\\_t](#).
- typedef sequence < [IPS\\_In\\_ServiceComponents\\_t](#) > [IPS\\_In\\_ServiceComponents\\_List\\_t](#)  
A sequence of [IPS\\_In\\_ServiceComponents\\_t](#).
- typedef sequence < [TableGenerationData\\_t](#) > [TableGenerationDataList\\_t](#)  
A sequence of [TableGenerationData\\_t](#).
- typedef sequence < [TableGenerationData\\_V2\\_t](#) > [TableGenerationDataList\\_V2\\_t](#)  
A sequence of [TableGenerationData\\_t](#).
- typedef sequence < [SvcOutStreamingSetting\\_t](#) > [SvcOutStreamingSettingList\\_t](#)  
A sequence of [SvcStreamingState\\_t](#).
- typedef sequence < [AsiFormatData\\_t](#) > [AsiFormatDataList\\_t](#)  
A sequence of [AsiFormatData\\_t](#).
- typedef sequence < [ASI\\_MirrorCfg\\_t](#) > [ASI\\_MirrorCfgList\\_t](#)

*A sequence of [ASI\\_MirrorCfg\\_t](#).*

- typedef sequence < [IpCfg\\_t](#) > [IpCfgList\\_t](#)
- typedef sequence < [VlanPortSet\\_t](#) > [VlanPortSetList\\_t](#)
- typedef sequence < [ASI\\_BW\\_LimitData\\_t](#) > [ASI\\_BW\\_LimitDataList\\_t](#)
- typedef sequence < [InPort\\_8VSB\\_TuningParams\\_t](#) > [InPort\\_8VSB\\_TuningParams\\_List\\_t](#)

*A sequence of [InPort\\_8VSB\\_TuningParams\\_t](#).*

- typedef sequence < [InPort\\_8VSB\\_Config\\_t](#) > [InPort\\_8VSB\\_Config\\_List\\_t](#)

*A sequence of [InPort\\_8VSB\\_Config\\_t](#).*

- typedef sequence < [InPort\\_8VSB\\_Statistics\\_t](#) > [InPort\\_8VSB\\_Statistics\\_List\\_t](#)

*A sequence of [InPort\\_8VSB\\_Statistics\\_t](#).*

- typedef sequence < [InPort\\_DvbS2\\_PortConfig\\_t](#) > [InPort\\_DvbS2\\_PortConfig\\_List\\_t](#)

*A sequence of [InPort\\_DvbS2\\_PortConfig\\_t](#).*

- typedef sequence < [InPort\\_DvbS2\\_TunerCfg\\_t](#) > [InPort\\_DvbS2\\_TunerCfg\\_List\\_t](#)

*A sequence of [InPort\\_DvbS2\\_TunerCfg\\_t](#).*

- typedef sequence < [InPort\\_DvbS2\\_LncCfg\\_t](#) > [InPort\\_DvbS2\\_LncCfg\\_List\\_t](#)
- typedef sequence < [InPort\\_DvbS2\\_Status\\_t](#) > [InPort\\_DvbS2\\_Status\\_List\\_t](#)
- typedef sequence < [InPort\\_DvbS2\\_Counters\\_t](#) > [InPort\\_DvbS2\\_Counters\\_List\\_t](#)
- typedef unsigned short [DvbS2\\_Isi\\_t](#)

*DVB-S2 input stream identifier type.*

- typedef sequence < [DvbS2\\_Isi\\_t](#) > [DvbS2\\_Isi\\_list\\_t](#)

*A sequence of DVB-S2 input stream identifiers.*

- typedef sequence < [DvbS2\\_LookupTS\\_t](#) > [DvbS2\\_LookupTS\\_List\\_t](#)

*A sequence of [DvbS2\\_LookupTS\\_t](#).*

- typedef sequence < [DvbS2\\_RefTS\\_t](#) > [DvbS2\\_RefTS\\_List\\_t](#)

*A sequence of [DvbS2\\_RefTS\\_t](#).*

- typedef sequence < [DvbS2\\_InputTS\\_t](#) > [DvbS2\\_InputTS\\_list\\_t](#)

*A sequence of [DvbS2\\_InputTS\\_t](#).*

- typedef sequence < [Debug\\_DvbS2\\_InputTS\\_t](#) > [Debug\\_DvbS2\\_InputTS\\_List\\_t](#)

*A sequence of [Debug\\_DvbS2\\_InputTS\\_t](#).*

- typedef sequence < [TableKeysExt\\_t](#) > [TableKeysExtList\\_t](#)
- typedef sequence < [DescriptorData\\_t](#) > [DescriptorDataList\\_t](#)
- typedef sequence < [DescriptorRule\\_t](#) > [DescriptorRuleList\\_t](#)
- typedef sequence < [DescriptorRuleSet\\_t](#) > [DescriptorRuleSetList\\_t](#)
- typedef sequence < [MergedESDescriptorData\\_t](#) > [MergedESDescriptorDataList\\_t](#)
- typedef sequence < [InTS\\_CompactCaMode\\_t](#) > [InTS\\_CompactCaMode\\_List\\_t](#)

*A sequence of [InTS\\_CompactCaMode\\_t](#) entries.*

- typedef sequence < [PSIGSubTable\\_t](#) > [PSIGSubTableList\\_t](#)
- typedef sequence < [IIOP\\_SubTable\\_t](#) > [IIOP\\_SubTableList\\_t](#)

*A sequence of [IIOP\\_SubTable\\_t](#).*

- typedef sequence < [PspUpdateRule\\_t](#) > [PspUpdateRuleList\\_t](#)
- typedef sequence < [SvcOutPspUpdateRule\\_t](#) > [SvcOutPspUpdateRuleList\\_t](#)
- typedef sequence < [Scte35CommandAndData\\_t](#) > [Scte35CommandAndData\\_list\\_t](#)
- typedef sequence < [FCS\\_Scte35\\_CommandSelect\\_t](#) > [FCS\\_Scte35\\_CommandList\\_t](#)
- typedef sequence < [MultipleStringElement\\_t](#) > [MultipleString\\_t](#)
- typedef sequence < [OutTsStandard\\_t](#) > [OutTsStandardList\\_t](#)

*A sequence of [OutTsStandard\\_t](#).*

- typedef sequence < [OutTS\\_SttTimeZone\\_t](#) > [OutTS\\_SttTimeZone\\_List\\_t](#)

*A sequence of [OutTS\\_SttTimeZone\\_t](#).*



- typedef sequence < [VCT\\_SvcInput\\_t](#) > [VCT\\_SvcInput\\_List\\_t](#)  
*A sequence of [VCT\\_SvcInput\\_t](#).*
- typedef sequence < [VCT\\_SvcSetting\\_t](#) > [VCT\\_SvcSetting\\_List\\_t](#)  
*A sequence of [VCT\\_Setting\\_t](#).*
- typedef sequence < [VCT\\_SvcData\\_t](#) > [VCT\\_SvcData\\_List\\_t](#)  
*A sequence of [VCT\\_Data\\_t](#).*
- typedef sequence < [OutTsServiceLocationAdded\\_t](#) > [OutTsServiceLocationAddedList\\_t](#)
- typedef sequence < [OutTS\\_PsipEitStartPid\\_t](#) > [OutTS\\_PsipEitStartPidList\\_t](#)
- typedef sequence < [OutTS\\_PsipEttStartPid\\_t](#) > [OutTS\\_PsipEttStartPidList\\_t](#)
- typedef sequence < [Svc\\_PsipEitRegenerationInfo\\_t](#) > [Svc\\_PsipEitRegenerationInfoList\\_t](#)  
*A sequence of [Svc\\_PsipEitRegenerationInfo\\_t](#).*
- typedef sequence < [Svc\\_PsipEttRegenerationInfo\\_t](#) > [Svc\\_PsipEttRegenerationInfoList\\_t](#)  
*A sequence of [Svc\\_PsipEttRegenerationInfo\\_t](#).*
- typedef sequence < [OutTS\\_PsipEttvPid\\_t](#) > [OutTS\\_PsipEttvPid\\_List\\_t](#)
- typedef sequence < [ETTV\\_ContentSetting\\_t](#) > [ETTV\\_ContentSetting\\_List\\_t](#)  
*A sequence of [ETTV\\_ContentSetting\\_t](#).*
- typedef sequence < [ETTV\\_ContentData\\_t](#) > [ETTV\\_ContentData\\_List\\_t](#)  
*A sequence of [ETTV\\_ContentData\\_t](#).*
- typedef sequence < [PsipMgtInfo\\_t](#) > [PsipMgtInfoList\\_t](#)
- typedef sequence < [TS\\_PsipMgtInfo\\_t](#) > [TS\\_PsipMgtInfoList\\_t](#)
- typedef sequence < [TS\\_BitRateMeasurement\\_t](#) > [TS\\_BitRateMeasurementList\\_t](#)  
*A sequence of [TS\\_BitRateMeasurement\\_t](#).*
- typedef sequence < [ServiceBitRateMeasurement\\_t](#) > [ServiceBitRateMeasurementList\\_t](#)  
*A sequence of [ServiceBitRateMeasurement\\_t](#).*
- typedef sequence < [TS\\_CompBitRateMeasurement\\_t](#) > [TS\\_CompBitRateMeasurementList\\_t](#)  
*A sequence of [TS\\_CompBitRateMeasurement\\_t](#).*
- typedef sequence < [ServiceCompBitRateMeasurement\\_t](#) > [ServiceCompBitRateMeasurementList\\_t](#)  
*A sequence of [ServiceCompBitRateMeasurement\\_t](#).*
- typedef sequence < unsigned long > [BitRateSampleList\\_t](#)  
*A sequence of longs.*
- typedef sequence < [ServiceBitRateSample\\_t](#) > [ServiceBitRateSampleList\\_t](#)  
*A sequence of [ServiceBitRateSample\\_t](#).*
- typedef sequence < [TRBitRateSample\\_t](#) > [TRBitRateSampleList\\_t](#)  
*A sequence of [TRBitRateSample\\_t](#).*
- typedef sequence < [TR\\_BitRateMeasurement\\_t](#) > [TR\\_BitRateMeasurementList\\_t](#)  
*A sequence of [TR\\_BitRateMeasurement\\_t](#).*
- typedef unsigned long [ClipID\\_t](#)
- typedef sequence < [ClipID\\_t](#) > [ClipID\\_List\\_t](#)
- typedef sequence < [SlateData\\_t](#) > [SlateDataList\\_t](#)
- typedef sequence < [TC\\_CaptionInfo\\_t](#) > [TC\\_CaptionInfoList\\_t](#)
- typedef sequence < [ResourcesLoad\\_t](#) > [ResourcesLoad\\_List\\_t](#)
- typedef sequence < [RefProcessorEngineUnit\\_t](#) > [RefProcessorEngineUnitList\\_t](#)  
*Description of engine unit types (underlying hardware) for Multi format processor (MFP) boards.*
- typedef sequence < [MFPB\\_EngineUnitCfg\\_t](#) > [MFPB\\_EngineUnitCfgList\\_t](#)  
*Description of the slot type a service belongs to.*
- typedef sequence < [MFPB\\_ServiceCfg\\_t](#) > [MFPB\\_ServiceCfgList\\_t](#)



- typedef sequence < [MFPB\\_MPEG2FramePicturesCfg\\_t](#) > [MFPB\\_MPEG2FramePicturesCfgList\\_t](#)
- typedef unsigned long [MFPB\\_TrackingID\\_t](#)
- typedef sequence < [MFPB\\_TrackingID\\_t](#) > [MFPB\\_TrackingID\\_List\\_t](#)
- typedef sequence < [MFPB\\_ServiceTrackingID\\_t](#) > [MFPB\\_ServiceTrackingID\\_List\\_t](#)
- typedef sequence < [MFPB\\_Component\\_t](#) > [MFPB\\_ComponentList\\_t](#)
- typedef sequence < [MFPB\\_ServiceComponents\\_t](#) > [MFPB\\_ServiceComponentsList\\_t](#)
- typedef sequence < [MFPB\\_VideoInformation\\_t](#) > [MFPB\\_VideoInformationList\\_t](#)
- typedef sequence < [MFPB\\_VideoServiceInformation\\_t](#) > [MFPB\\_VideoServiceInformationList\\_t](#)
- typedef sequence < [MFPB\\_VideoDecode\\_t](#) > [MFPB\\_VideoDecodeList\\_t](#)
- typedef sequence < [MFPB\\_VideoDecodeCfg\\_t](#) > [MFPB\\_VideoDecodeCfgList\\_t](#)
- typedef sequence < [MFPB\\_VideoEncode\\_t](#) > [MFPB\\_VideoEncodeList\\_t](#)
- typedef sequence < [MFPB\\_VideoEncodeCfg\\_t](#) > [MFPB\\_VideoEncodeCfgList\\_t](#)
- typedef sequence < [MFPB\\_MultiResABR\\_t](#) > [MFPB\\_MultiResABR\\_List\\_t](#)
- typedef sequence < [MFPB\\_VideoEncodeV2\\_t](#) > [MFPB\\_VideoEncodeV2List\\_t](#)
- typedef sequence < [MFPB\\_VideoEncodeCfgV2\\_t](#) > [MFPB\\_VideoEncodeCfgV2List\\_t](#)
- typedef sequence < [MFPB\\_MultiResVideoEncode\\_t](#) > [MFPB\\_MultiResVideoEncodeList\\_t](#)
- typedef sequence < [MFPB\\_MultiResVideoEncodeCfg\\_t](#) > [MFPB\\_MultiResVideoEncodeCfgList\\_t](#)
- typedef sequence < [MFPB\\_AudioInformation\\_t](#) > [MFPB\\_AudioInformationList\\_t](#)
- typedef sequence < [MFPB\\_AudioServiceInformation\\_t](#) > [MFPB\\_AudioServiceInformationList\\_t](#)
- typedef sequence < [MFPB\\_AudioDecode\\_t](#) > [MFPB\\_AudioDecodeList\\_t](#)
- typedef sequence < [MFPB\\_AudioDecodeCfg\\_t](#) > [MFPB\\_AudioDecodeCfgList\\_t](#)
- typedef sequence < [MFPB\\_AudioEncode\\_t](#) > [MFPB\\_AudioEncodeList\\_t](#)
- typedef sequence < [MFPB\\_AudioEncodeCfg\\_t](#) > [MFPB\\_AudioEncodeCfgList\\_t](#)
- typedef sequence < [MFPB\\_MPEGL2\\_AudioSettings\\_t](#) > [MFPB\\_MPEGL2\\_AudioSettingsList\\_t](#)
- typedef sequence < [MFPB\\_MPEGL2AudioCfg\\_t](#) > [MFPB\\_MPEGL2AudioCfgList\\_t](#)
- typedef sequence < [MFPB\\_AAC\\_AudioSettings\\_t](#) > [MFPB\\_AAC\\_AudioSettingsList\\_t](#)
- typedef sequence < [MFPB\\_AacAudioCfg\\_t](#) > [MFPB\\_AacAudioCfgList\\_t](#)
- typedef sequence < [MFPB\\_Dolby\\_AudioSettings\\_t](#) > [MFPB\\_Dolby\\_AudioSettingsList\\_t](#)
- typedef sequence < [MFPB\\_DolbyAudioCfg\\_t](#) > [MFPB\\_DolbyAudioCfgList\\_t](#)
- typedef sequence < [MFPB\\_Dolby\\_AudioSettings\\_V2\\_t](#) > [MFPB\\_Dolby\\_AudioSettingsList\\_V2\\_t](#)
- typedef sequence < [MFPB\\_DolbyAudioCfg\\_V2\\_t](#) > [MFPB\\_DolbyAudioCfgList\\_V2\\_t](#)
- typedef sequence < [MFPB\\_AudioDecodeExtraMPEGL2Settings\\_t](#) > [MFPB\\_AudioDecodeExtraMPEGL2SettingsList\\_t](#)
- typedef sequence < [MFPB\\_AudioDecodeExtraMPEGL2Cfg\\_t](#) > [MFPB\\_AudioDecodeExtraMPEGL2CfgList\\_t](#)
- typedef sequence < [MFPB\\_AudioDecodeExtraAACSettings\\_t](#) > [MFPB\\_AudioDecodeExtraAACSettingsList\\_t](#)
- typedef sequence < [MFPB\\_AudioDecodeExtraAACCfg\\_t](#) > [MFPB\\_AudioDecodeExtraAACCfgList\\_t](#)
- typedef sequence < [MFPB\\_AudioDecodeExtraDolbySettings\\_t](#) > [MFPB\\_AudioDecodeExtraDolbySettingsList\\_t](#)
- typedef sequence < [MFPB\\_AudioDecodeExtraDolbyCfg\\_t](#) > [MFPB\\_AudioDecodeExtraDolbyCfgList\\_t](#)
- typedef sequence < [MFPB\\_ES\\_CaptionInfo\\_t](#) > [MFPB\\_ES\\_CaptionInfoList\\_t](#)
- typedef sequence < [MFPB\\_Svc\\_CaptionInfo\\_t](#) > [MFPB\\_Svc\\_CaptionInfoList\\_t](#)
- typedef sequence < [MFPB\\_DD\\_MetaDecStatus\\_t](#) > [MFPB\\_DD\\_MetaDecStatusList\\_t](#)
- typedef sequence < [MFPB\\_ServiceDD\\_MetaDecStatus\\_t](#) > [MFPB\\_ServiceDD\\_MetaDecStatusList\\_t](#)
- typedef sequence < [MFPB\\_MetaDataCfg\\_t](#) > [MFPB\\_MetaDataCfgList\\_t](#)
- typedef sequence < [MFPB\\_ServiceMetaDataCfg\\_t](#) > [MFPB\\_ServiceMetaDataCfgList\\_t](#)
- typedef sequence < [TC\\_PossibleBoardCfg\\_t](#) > [TC\\_PossibleBoardCfgList\\_t](#)

- typedef sequence < TC\_PossibleBoardCfg\_V2\_t > TC\_PossibleBoardCfgList\_V2\_t
- typedef sequence< EsEntry\_t > EsList\_t
- typedef unsigned long SelectionId\_t
- typedef sequence< SelectionId\_t > SelectionIdList\_t
- typedef sequence < SelectionListEntry\_t > SelectionList\_t
- typedef sequence< TC\_Question\_t > TC\_QuestionList\_t
- typedef sequence < TC\_DependantQuestion\_t > TC\_DependantQuestionList\_t
- typedef unsigned long TrackingID\_t
- typedef sequence< TrackingID\_t > TrackingID\_List\_t
- typedef sequence < TC\_ServiceTrackingID\_t > TC\_ServiceTrackingID\_List\_t
- typedef sequence < TC\_VideoDecode\_t > TC\_VideoDecodeList\_t
- typedef sequence < TC\_VideoEncode\_t > TC\_VideoEncodeList\_t
- typedef sequence< TC\_Video\_t > TC\_VideoList\_t
- typedef sequence < TC\_VideoInformation\_t > TC\_VideoInformationList\_t
- typedef sequence< TC\_Pip\_t > TC\_PipList\_t
- typedef sequence< TC\_Audio\_t > TC\_AudioList\_t
- typedef sequence < TC\_AudioInformation\_t > TC\_AudioInformationList\_t
- typedef sequence< TC\_ServiceCfg\_t > TC\_ServiceCfgList\_t
- typedef sequence < TC\_VideoDecodeCfg\_t > TC\_VideoDecodeCfgList\_t
- typedef sequence < TC\_VideoEncodeCfg\_t > TC\_VideoEncodeCfgList\_t
- typedef sequence< TC\_VideoCfg\_t > TC\_VideoCfgList\_t
- typedef sequence < TC\_VideoServiceInformation\_t > TC\_VideoServiceInformationList\_t
- typedef sequence< TC\_PipCfg\_t > TC\_PipCfgList\_t
- typedef sequence< TC\_AudioCfg\_t > TC\_AudioCfgList\_t
- typedef sequence < TC\_AudioServiceInformation\_t > TC\_AudioServiceInformationList\_t
- typedef sequence< TC\_Component\_t > TC\_ComponentList\_t
- typedef sequence < TC\_ServiceComponents\_t > TC\_ServiceComponentsList\_t
- typedef sequence < TC\_ES\_CaptionInfo\_t > TC\_ES\_CaptionInfoList\_t
- typedef sequence < TC\_Svc\_CaptionInfo\_t > TC\_Svc\_CaptionInfoList\_t
- typedef unsigned long FontCfgID\_t
- typedef sequence< FontCfgID\_t > FontCfgID\_List\_t
- typedef sequence< FontCfg\_t > FontCfgList\_t
- typedef unsigned long LogoCfgID\_t
- typedef sequence< LogoCfgID\_t > LogoCfgID\_List\_t
- typedef sequence< LogoCfg\_t > LogoCfgList\_t
- typedef unsigned long LogoFileNumber\_t
- typedef sequence < LogoCfgFileNumber\_t > LogoCfgFileNumberList\_t
- typedef unsigned long BannerCfgID\_t
- typedef sequence< BannerCfgID\_t > BannerCfgID\_List\_t
- typedef sequence< BannerCfg\_t > BannerCfgList\_t
- typedef sequence< BannerCfg\_V2\_t > BannerCfg\_V2\_List\_t
- typedef sequence < TC\_BannerSettings\_t > TC\_BannerSettingsList\_t
- typedef sequence < TC\_BannerStatus\_t > TC\_BannerStatusList\_t
- typedef sequence < TC\_ServiceBannerStatus\_t > TC\_ServiceBannerStatusList\_t
- typedef unsigned long TC\_ServiceLogoID\_t
- typedef sequence < TC\_LogoSetting\_t > TC\_LogoSettingList\_t
- typedef sequence< TC\_Logo\_t > TC\_LogoList\_t
- typedef sequence < TC\_LogoDisplay\_t > TC\_LogoDisplayList\_t
- typedef sequence < TC\_ServiceLogoDisplay\_t > TC\_ServiceLogoDisplayList\_t
- typedef sequence< TC\_LogoCfg\_t > TC\_LogoCfgList\_t

- typedef unsigned long [TC\\_KeyerID\\_t](#)
- typedef sequence < [TC\\_LogoKeyerID\\_t](#) > [TC\\_LogoKeyerID\\_List\\_t](#)
- typedef sequence < [TC\\_ServiceLogoCfgID\\_t](#) > [TC\\_ServiceLogoCfgID\\_List\\_t](#)
- typedef sequence< [TR\\_GroupID\\_t](#) > [TR\\_GroupID\\_List\\_t](#)  
*A sequence of [TR\\_GroupID\\_t](#).*
- typedef sequence < [TR\\_GroupSettings\\_t](#) > [TR\\_GroupSettings\\_List\\_t](#)  
*A sequence of [TR\\_GroupSettings\\_t](#).*
- typedef sequence< [TR\\_TSSettings\\_t](#) > [TR\\_TSSettings\\_List\\_t](#)  
*A sequence of [TR\\_TSSettings\\_t](#).*
- typedef sequence< [TR\\_TSAdd\\_t](#) > [TR\\_TSAdd\\_List\\_t](#)  
*A sequence of [TR\\_TSAdd\\_t](#).*
- typedef sequence < [TR\\_ServiceSettings\\_t](#) > [TR\\_ServiceSettings\\_List\\_t](#)  
*A sequence of [TR\\_ServiceSettings\\_t](#).*
- typedef sequence < [TR\\_GroupServiceSettings\\_t](#) > [TR\\_GroupServiceSettings\\_List\\_t](#)  
*A sequence of [TR\\_GroupServiceSettings\\_t](#).*
- typedef sequence < [TR\\_ServiceSettings\\_V2\\_t](#) > [TR\\_ServiceSettings\\_V2\\_List\\_t](#)  
*A sequence of [TR\\_ServiceSettings\\_V2\\_t](#).*
- typedef sequence < [TR\\_GroupServiceSettings\\_V2\\_t](#) > [TR\\_GroupServiceSettings\\_V2\\_List\\_t](#)  
*A sequence of [TR\\_GroupServiceSettings\\_V2\\_t](#).*
- typedef unsigned long [RMX\\_GroupID\\_t](#)  
*Realignment Mux group ID.*
- typedef sequence< [RMX\\_GroupID\\_t](#) > [RMX\\_GroupID\\_List\\_t](#)  
*A list of Realignment Mux group IDs.*
- typedef sequence < [RMX\\_GroupSettings\\_t](#) > [RMX\\_GroupSettings\\_List\\_t](#)  
*A list of Realignment Mux group settings.*
- typedef sequence< [RMX\\_GroupSvc\\_t](#) > [RMX\\_GroupSvc\\_List\\_t](#)
- typedef sequence< [RMX\\_GroupSvcs\\_t](#) > [RMX\\_GroupSvcs\\_List\\_t](#)  
*A list where each node is a set of Realignment Mux services belonging to the same group.*
- typedef sequence < [SMX\\_MFP\\_GroupSettings\\_t](#) > [SMX\\_MFP\\_GroupSettings\\_List\\_t](#)  
*A sequence of Statmux group settings.*
- typedef sequence< unsigned long > [SMX\\_MFP\\_GroupID\\_List\\_t](#)  
*list of group ids.*
- typedef sequence < [SMX\\_MFP\\_TsSettings\\_t](#) > [SMX\\_MFP\\_TsSettings\\_List\\_t](#)  
*A sequence of Statmux Transport Stream settings.*
- typedef sequence < [SMX\\_MFP\\_Group\\_TSSettings\\_t](#) > [SMX\\_MFP\\_Group\\_TSSettings\\_List\\_t](#)  
*A sequence of [SMX\\_MFP\\_Group\\_TSSettings\\_t](#).*
- typedef sequence < [SMX\\_MFP\\_Group\\_TSs\\_t](#) > [SMX\\_MFP\\_Group\\_TS\\_List\\_t](#)  
*A sequence of [SMX\\_MFP\\_Group\\_TSs\\_t](#).*
- typedef sequence < [SMX\\_MFP\\_SvcSettings\\_t](#) > [SMX\\_MFP\\_SvcSettings\\_List\\_t](#)  
*A sequence of Statmux services.*
- typedef sequence < [SMX\\_MFP\\_SvcSettings\\_V2\\_t](#) > [SMX\\_MFP\\_SvcSettings\\_V2\\_List\\_t](#)  
*A sequence of Statmux services.*
- typedef sequence < [SMX\\_MFP\\_Group\\_SvcSettings\\_t](#) > [SMX\\_MFP\\_Group\\_SvcSettings\\_List\\_t](#)  
*A sequence of [SMX\\_MFP\\_Group\\_SvcSettings\\_t](#).*
- typedef sequence < [SMX\\_MFP\\_Group\\_SvcSettings\\_V2\\_t](#) > [SMX\\_MFP\\_Group\\_SvcSettings\\_V2-  
\\_List\\_t](#)  
*A sequence of [SMX\\_MFP\\_Group\\_SvcSettings\\_V2\\_t](#).*

- typedef sequence < [SMX\\_MFP\\_Group\\_Svc\\_t](#) > [SMX\\_MFP\\_Group\\_Svc\\_List\\_t](#)  
*A sequence of [SMX\\_MFP\\_Group\\_Svc\\_t](#).*
- typedef sequence < [IPS\\_OutPID\\_Sync\\_t](#) > [IPS\\_OutPID\\_SyncList\\_t](#)
- typedef sequence < [IPS\\_OutServiceSync\\_t](#) > [IPS\\_OutServiceSyncList\\_t](#)
- typedef sequence < [IPS\\_OutPID\\_Sync\\_V2\\_t](#) > [IPS\\_OutPID\\_SyncList\\_V2\\_t](#)
- typedef sequence < [IPS\\_OutServiceSync\\_V2\\_t](#) > [IPS\\_OutServiceSyncList\\_V2\\_t](#)
- typedef sequence < [SlateService\\_t](#) > [SlateServiceList\\_t](#)
- typedef sequence < [TR\\_AudioLevel\\_t](#) > [TR\\_AudioLevelList\\_t](#)
- typedef sequence < [TR\\_ServiceAudioLevel\\_t](#) > [TR\\_ServiceAudioLevelList\\_t](#)
- typedef sequence < [TR\\_TsDelay\\_t](#) > [TR\\_TsDelay\\_List\\_t](#)
- typedef unsigned long [DPI\\_ModeBitmap\\_t](#)  
*DPI mode bitfield, allowing combined DPI modes.*
- typedef sequence < [DPI\\_ChannelName\\_t](#) > [DPI\\_ChannelName\\_List\\_t](#)  
*A sequence of [DPI\\_ChannelName\\_t](#).*
- typedef sequence < [DPI\\_ChannelSettings\\_t](#) > [DPI\\_ChannelSettings\\_List\\_t](#)  
*A sequence of [DPI\\_ChannelSettings\\_t](#).*
- typedef sequence < [DPI\\_ChannelSettings2\\_t](#) > [DPI\\_ChannelSettings2\\_List\\_t](#)  
*A sequence of [DPI\\_ChannelSettings2\\_t](#).*
- typedef sequence < [DPI\\_ChannelSettings3\\_t](#) > [DPI\\_ChannelSettings3\\_List\\_t](#)  
*A sequence of [DPI\\_ChannelSettings3\\_t](#).*
- typedef sequence < [DPI\\_ChannelStatus\\_t](#) > [DPI\\_ChannelStatus\\_List\\_t](#)  
*A sequence of [DPI\\_ChannelStatus\\_t](#).*
- typedef sequence < [DPI\\_PidCouple\\_t](#) > [DPI\\_PidCoupleList\\_t](#)
- typedef sequence < [DPI\\_PmtSpliceModeSetting\\_t](#) > [DPI\\_PmtSpliceModeSettingList\\_t](#)  
*A sequence of [DPI\\_PmtSpliceModeSetting\\_t](#).*
- typedef sequence < [ETV\\_ManipulationSettings\\_t](#) > [ETV\\_ManipulationSettings\\_List\\_t](#)  
*A sequence of [ETV\\_ManipulationSettings\\_t](#).*
- typedef sequence < [ETV\\_ManipulationSettings\\_V2\\_t](#) > [ETV\\_ManipulationSettings\\_List\\_V2\\_t](#)  
*A sequence of [ETV\\_ManipulationSettings\\_V2\\_t](#).*
- typedef sequence < [octet](#) > [AppInstanceId\\_t](#)
- typedef sequence < [ETV\\_ApplicationIdent\\_t](#) > [ETV\\_ApplicationIdent\\_List\\_t](#)
- typedef sequence < [ETV\\_EissFilter\\_t](#) > [ETV\\_EissFilter\\_List\\_t](#)
- typedef sequence < [ClearPidBitrates\\_t](#) > [ClearPidBitratesList\\_t](#)  
*A sequence of [ServiceBlockCAInfo\\_t](#) entries.*
- typedef sequence < [AddPidsFromSplice\\_t](#) > [AddPidsFromSpliceList\\_t](#)  
*A sequence of [ServiceBlockCAInfo\\_t](#) entries.*
- typedef sequence < [AlternateSource\\_t](#) > [AlternateSourceList\\_t](#)  
*A sequence of [AlternateSource\\_t](#) entries.*
- typedef sequence < [Scte35Source\\_t](#) > [Scte35SourceList\\_t](#)  
*A sequence of [Scte35Source\\_t](#) entries.*
- typedef sequence < [Scte35ToggleOutOfNetwork\\_t](#) > [Scte35ToggleOutOfNetworkList\\_t](#)  
*A sequence of [Scte35ToggleOutOfNetwork\\_t](#) entries.*
- typedef sequence < [IPS\\_OutTS\\_RTP\\_t](#) > [IPS\\_OutTS\\_RTP\\_List\\_t](#)
- typedef sequence < [OutTS\\_VLAN\\_t](#) > [OutTS\\_VLAN\\_List\\_t](#)
- typedef sequence < [OutTS\\_TOS\\_t](#) > [OutTS\\_TOS\\_List\\_t](#)
- typedef sequence < [OutTS\\_SrcAddr\\_t](#) > [OutTS\\_SrcAddr\\_List\\_t](#)
- typedef sequence < [OutTS\\_SrcAddr\\_V2\\_t](#) > [OutTS\\_SrcAddr\\_V2\\_List\\_t](#)
- typedef sequence < [OutTS\\_TTL\\_t](#) > [OutTS\\_TTL\\_List\\_t](#)

- typedef sequence< [OutTS\\_VBR\\_t](#) > [OutTS\\_VBR\\_List\\_t](#)
- typedef sequence< [OutTS\\_UdpSize\\_t](#) > [OutTS\\_UdpSize\\_List\\_t](#)
- typedef sequence< [ArpEntry\\_t](#) > [ArpEntryList\\_t](#)  
*A sequence of [ArpEntry\\_t](#).*
- typedef sequence< [IP\\_Route\\_t](#) > [IP\\_RouteList\\_t](#)  
*A sequence of [IP\\_Route\\_t](#).*
- typedef sequence< [IP\\_Route\\_t\\_V2](#) > [IP\\_RouteList\\_t\\_V2](#)  
*A sequence of [IP\\_Route\\_t\\_V2](#).*
- typedef sequence < [EndDeviceEntry\\_t](#) > [EndDeviceList\\_t](#)  
*A sequence of [EndDeviceEntry\\_t](#).*
- typedef sequence < [InTS\\_FEC\\_Dec\\_Setting\\_t](#) > [InTS\\_FEC\\_Dec\\_Setting\\_List\\_t](#)  
*A sequence of [InTS\\_FEC\\_Dec\\_Setting\\_t](#) entries.*
- typedef sequence < [InTS\\_FEC\\_Dec\\_Statistics\\_t](#) > [InTS\\_FEC\\_Dec\\_Statistics\\_List\\_t](#)  
*A sequence of [InTS\\_FEC\\_Dec\\_Statistics\\_t](#) entries.*
- typedef sequence < [InTS\\_FEC\\_Dec\\_Status\\_t](#) > [InTS\\_FEC\\_Dec\\_Status\\_List\\_t](#)  
*A sequence of [InTS\\_FEC\\_Dec\\_Status\\_t](#) entries.*
- typedef sequence < [OutTS\\_FEC\\_Enc\\_Setting\\_t](#) > [OutTS\\_FEC\\_Enc\\_Setting\\_List\\_t](#)  
*A sequence of [OutTS\\_FEC\\_Enc\\_Setting\\_t](#) entries.*
- typedef sequence < [OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_t](#) > [OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_List\\_t](#)  
*A sequence of [OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_t](#) entries.*
- typedef sequence < [OutTS\\_FEC\\_Enc\\_Overhead\\_t](#) > [OutTS\\_FEC\\_Enc\\_Overhead\\_List\\_t](#)  
*A sequence of [OutTS\\_FEC\\_Enc\\_Overhead\\_t](#) entries.*
- typedef sequence < [InTS\\_HitlessMergeSetting\\_t](#) > [InTS\\_HitlessMergeSettingList\\_t](#)  
*A sequence of [InTS\\_HitlessMergeSetting\\_t](#) entries.*
- typedef [GbEStatisticsEntry\\_t](#) [GbEStatistics\\_t](#) [4]  
*Statistics for all 4 ports on a GbE board.*
- typedef sequence < [GbEPortStatsEntry\\_t](#) > [GbEStatisticsEntryList\\_t](#)  
*A sequence of Statistics, one for each Gbe port on a board.*
- typedef sequence < [IGMPv2MulticastGroup\\_t](#) > [IGMPv2MulticastGroupList\\_t](#)  
*A sequence of [IGMPv2MulticastGroup\\_t](#).*
- typedef sequence< [IGMPv3Group\\_t](#) > [IGMPv3GroupList\\_t](#)
- typedef sequence < [PCTM\\_StreamThresholdSettings\\_t](#) > [PCTM\\_StreamThresholdSettings\\_List\\_t](#)  
*Threshold settings for the packet types of multiple streams.*
- typedef sequence < [PCTM\\_StreamPacketCounters\\_t](#) > [PCTM\\_StreamPacketCounters\\_List\\_t](#)  
*Packet counters of multiple streams.*
- typedef sequence< [Feature\\_t](#) > [FeatureList\\_t](#)  
*Sequence of Features ...*
- typedef unsigned short [TempLicenseState\\_t](#)
- typedef sequence< [FeatureUsage\\_t](#) > [FeatureUsageList\\_t](#)  
*A list of [FeatureUsage\\_t](#) elements.*
- typedef sequence < [BoardFeatureUsage\\_t](#) > [BoardFeatureUsageList\\_t](#)  
*A list of [BoardFeatureUsage\\_t](#) elements.*
- typedef unsigned long [TriggerBitmap\\_t](#)  
*Bitmap of triggers.*
- typedef sequence < [ServiceLossTrigger\\_t](#) > [ServiceLossTriggerList\\_t](#)  
*A sequence of [ServiceLossTrigger\\_t](#).*

- typedef sequence < [TS\\_LossTrigger\\_t](#) > [TS\\_LossTriggerList\\_t](#)  
*A sequence of [TS\\_LossTrigger\\_t](#).*
- typedef sequence < [DeviceBackupLink\\_t](#) > [DeviceBackupLinkList\\_t](#)
- typedef sequence < [AlarmTriggerRule\\_t](#) > [AlarmTriggerRuleList](#)
- typedef sequence < [RestoreOption](#) > [RestoreOptions](#)  
*List of options.*
- typedef sequence < [RestoreOption\\_V2](#) > [RestoreOptions\\_V2](#)  
*List of options.*
- typedef sequence < [ASI\\_DTF\\_t](#) > [ASI\\_DTF\\_List\\_t](#)  
*Provides a list of DTF input settings structures.*
- typedef sequence < [ASI\\_DTF\\_Ex\\_t](#) > [ASI\\_DTF\\_ListEx\\_t](#)  
*Provides a list of DTF input settings structures.*
- typedef sequence < [ASI\\_DTF\\_RDSCS\\_t](#) > [ASI\\_DTF\\_RDSCS\\_List\\_t](#)  
*Provides a list of DTF RDSCS input settings structures. From V9.0 onwards.*
- typedef sequence < [ASI\\_DTF\\_ScramblingKeyPair\\_t](#) > [ASI\\_DTF\\_ScramblingKeyList](#)  
*Type to hold a list of scrambling key pairs, should hold exactly 64 key pairs.*
- typedef sequence < [ASI\\_DTF\\_ScramblingKey\\_t](#) > [ASI\\_DTF\\_KeyList\\_t](#)
- typedef sequence < [MM\\_Message](#) > [MM\\_MessageList](#)  
*A sequence of [MM\\_Message](#).*
- typedef sequence < [MM\\_MessageTypeSetting](#) > [MM\\_MessageTypeSettingList](#)  
*A sequence of [MM\\_MessageTypeSetting](#).*
- typedef sequence < [MM\\_MessageSetting](#) > [MM\\_MessageSettingList](#)  
*A sequence of [MM\\_MessageSetting](#).*
- typedef sequence < [MM\\_Measurement](#) > [MM\\_MeasurementList](#)  
*A sequence of [MM\\_Measurement](#).*
- typedef sequence < [MM\\_TypeInfo](#) > [MM\\_TypeInfoList](#)  
*A sequence of [MM\\_TypeInfo](#).*
- typedef sequence < [MM\\_TypeInfo\\_V2](#) > [MM\\_TypeInfoList\\_V2](#)  
*A sequence of [MM\\_TypeInfo\\_V2](#).*
- typedef sequence < [MM\\_MeasurementStat](#) > [MM\\_MeasurementStatList](#)  
*A sequence of [MM\\_MeasurementStat](#).*
- typedef sequence < [MM\\_MessageTypeErrorInterval](#) > [MM\\_MessageTypeErrorIntervalList](#)
- typedef sequence < [CofTrigger\\_t](#) > [CofTriggerList\\_t](#)  
*List of card not operational failure alarm triggers.*
- typedef sequence < [OutTS\\_AlarmSetting\\_t](#) > [OutTS\\_AlarmSettingList\\_t](#)  
*List of alarm settings.*
- typedef sequence < unsigned long > [RefList\\_t](#)  
*List of TS indices.*
- typedef sequence < [BackupService\\_t](#) > [BackupServiceList\\_t](#)
- typedef sequence < [BackupSrvTable\\_t](#) > [BackupSrvTableList\\_t](#)
- typedef sequence < [AltSrcBU\\_Setting\\_t](#) > [AltSrcBU\\_SettingList\\_t](#)
- typedef sequence < [AltSrcMergeActiveInSvc\\_t](#) > [AltSrcMergeActiveInSvcList\\_t](#)
- typedef sequence < [TsOutSvcSourceSelection\\_t](#) > [TsOutSvcSourceSelectionList\\_t](#)
- typedef sequence < [SMX\\_StatMuxPool](#) > [SMX\\_StatMuxPoolList](#)
- typedef sequence < [SMX\\_StatMuxPool\\_V2](#) > [SMX\\_StatMuxPoolList\\_V2](#)
- typedef sequence < [SMX\\_Encoder\\_t](#) > [SMX\\_EncoderList](#)
- typedef sequence < [SMX\\_Service\\_t](#) > [SMX\\_ServiceList](#)

- typedef sequence < [SMX\\_EncVideoBitRate\\_t](#) > [SMX\\_EncVideoBitRateList](#)
- typedef sequence < [SMX36\\_StatmuxController\\_t](#) > [SMX36\\_StatmuxControllerList\\_t](#)
- typedef sequence < [SMX36\\_Pool\\_t](#) > [SMX36\\_PoolList\\_t](#)
- typedef sequence < [SMX36\\_Pool\\_V2\\_t](#) > [SMX36\\_PoolList\\_V2\\_t](#)
- typedef sequence < long > [SMX36\\_PoolIdList\\_t](#)  
*SMX36\_Pool\_Delete(in SMX36\_PoolIdList\_t PoolIdlist) deletes the pool.*
- typedef sequence < [SMX36\\_AlgorithmIdentifier\\_t](#) > [SMX36\\_AlgorithmIdentifierList\\_t](#)
- typedef sequence < [SMX36\\_Encoder\\_t](#) > [SMX36\\_EncoderList\\_t](#)
- typedef sequence < long > [SMX36\\_EncoderIdList\\_t](#)  
*SMX36\_Encoder\_Delete(in SMX36\_EncoderIdList\_t EncoderIdlist) deletes the encoder.*
- typedef sequence < [SMX36\\_VSE\\_t](#) > [SMX36\\_VSEList\\_t](#)
- typedef sequence < [SMX36\\_VSE\\_V2\\_t](#) > [SMX36\\_VSEList\\_V2\\_t](#)
- typedef sequence < [SMX36\\_VSE\\_V3\\_t](#) > [SMX36\\_VSEList\\_V3\\_t](#)
- typedef sequence < [SMX36\\_VSE\\_V4\\_t](#) > [SMX36\\_VSEList\\_V4\\_t](#)
- typedef sequence < long > [SMX36\\_VSEIdList\\_t](#)  
*SMX36\_VSE\_Delete( in SMX36\_VSEIdList\_t VSEIdlist ) Delete VSEs.*
- typedef sequence < [SMX36\\_VSE\\_CalculatedRates\\_t](#) > [SMX36\\_VSE\\_CalculatedRatesList\\_t](#)
- typedef sequence < [SMX36\\_VSEBackup\\_t](#) > [SMX36\\_VSEBackupList\\_t](#)
- typedef sequence < [SMX36\\_VSEBackup\\_V2\\_t](#) > [SMX36\\_VSEBackupList\\_V2\\_t](#)
- typedef sequence < [IPSecHost](#) > [IPSecHostList](#)
- typedef sequence < [ExtIpServiceCtrl](#) > [ExtIpServiceCtrlList](#)
- typedef sequence < [IpServiceDisplayData](#) > [IpServiceDisplayDataList](#)
- typedef sequence < unsigned long > [IdList](#)  
*list of ID's (for several purposes)*
- typedef sequence < unsigned short > [EcmlIdList](#)  
*list of EcmlId's*
- typedef sequence < unsigned short > [DataIdList](#)  
*list of DataId's*
- typedef sequence < unsigned short > [PidList\\_t](#)
- typedef sequence < [TS\\_Tier\\_t](#) > [TS\\_Tier\\_List\\_t](#)  
*A sequence of [TS\\_Tier\\_t](#) entries.*
- typedef unsigned short [DescrId\\_t](#)  
*Identifies a descrambling resource on a board.*
- typedef sequence < [DescrId\\_t](#) > [DescrId\\_List\\_t](#)  
*A list of descrambling resource id's.*
- typedef sequence < [DescrResource\\_t](#) > [DescrResource\\_List\\_t](#)  
*A list of [DescrResource\\_t](#).*
- typedef sequence < [DescrServiceData\\_t](#) > [DescrServiceData\\_List\\_t](#)  
*A list of [DescrServiceData\\_t](#).*
- typedef sequence < [DescrTS\\_Data\\_t](#) > [DescrTS\\_Data\\_List\\_t](#)  
*A sequence of [DescrTS\\_Data\\_t](#) entries.*
- typedef sequence < [DescrTS\\_Data\\_V2\\_t](#) > [DescrTS\\_Data\\_List\\_V2\\_t](#)  
*A sequence of [DescrTS\\_Data\\_V2\\_t](#) entries.*
- typedef sequence < [DescrTrackingRule\\_t](#) > [DescrTrackingRuleList\\_t](#)  
*A sequence of [DescrTrackingRule\\_t](#).*
- typedef sequence < [DescrSvcConfig\\_t](#) > [DescrSvcConfig\\_List\\_t](#)
- typedef sequence < [DescrCAM\\_Cfg\\_t](#) > [DescrCAM\\_Cfg\\_List\\_t](#)
- typedef sequence < [DescrCAM\\_Cfg\\_V2\\_t](#) > [DescrCAM\\_Cfg\\_List\\_V2\\_t](#)



- typedef sequence < DescrCAM\_BackupCfg\_t > DescrCAM\_BackupCfg\_List\_t  
*A sequence of DescrCAM\_BackupCfg\_t.*
- typedef sequence < DescrCAM\_Status\_t > DescrCAM\_Status\_List\_t  
*A sequence of DescrCAM\_Status\_t.*
- typedef sequence < DescrBISS\_Cfg\_t > DescrBISS\_Cfg\_List\_t  
*A sequence of DescrBISS\_Cfg\_t.*
- typedef sequence < enOperatingMode\_t > OperatingMode\_List\_t
- typedef sequence < EasConfig\_t > EasConfigList\_t  
*A sequence of EAS proxy configurations.*
- typedef sequence < InTS\_IPI\_Settings\_t > InTS\_IPI\_Settings\_List\_t  
*A sequence of InTS\_IndexPacketInterpreterSettings\_t\_t entries.*
- typedef sequence < DCG\_InputTS\_t > DCG\_InputTS\_List\_t  
*A sequence of DCG\_InputTS\_t entries.*
- typedef sequence < DCG\_InputRTP\_Stream\_t > DCG\_InputRTP\_StreamList\_t
- typedef sequence < DCG\_InputRTP\_Stream\_V2\_t > DCG\_InputRTP\_StreamList\_V2\_t  
*A sequence of DCG\_InputTS\_t entries.*
- typedef sequence < DCG\_InputRTP\_Stream\_V3\_t > DCG\_InputRTP\_StreamList\_V3\_t  
*A sequence of DCG\_InputTS\_t entries.*
- typedef sequence < DCG\_OutputTS\_t > DCG\_OutputTS\_List\_t  
*A sequence of DCG\_OutputTS\_t entries.*
- typedef sequence < DCG\_OutputRTP\_Stream\_t > DCG\_OutputRTP\_StreamList\_t  
*A sequence of DCG\_OutputTS\_t entries.*
- typedef sequence < DCG\_OutputRTP\_V2\_Stream\_t > DCG\_OutputRTP\_V2\_StreamList\_t  
*A sequence of DCG\_OutputRTP\_V2\_t entries.*
- typedef sequence < DCG\_OutputGBE\_t > DCG\_OutputGBE\_List\_t  
*A sequence of DCG\_OutputGBE\_t entries.*
- typedef sequence < DCG\_OutputFecGBE\_t > DCG\_OutputFecGBE\_List\_t  
*A sequence of DCG\_OutputFecGBE\_t entries.*
- typedef sequence < RoutingData\_t > RoutingDataList\_t  
*A sequence of IPS\_OutPID\_Data\_t.*
- typedef sequence < VideoSignalInfo\_t > VideoSignalInfoList\_t
- typedef sequence < End2End\_Delay\_t > End2End\_DelayList\_t
- typedef sequence < DCG\_3D\_pair\_t > DCG\_3D\_pair\_List\_t
- typedef sequence < DCG\_GeneratorConfig\_t > DCG\_GeneratorConfigList\_t
- typedef sequence < DCG\_AES\_GeneratorConfig\_t > DCG\_AES\_GeneratorConfigList\_t
- typedef sequence < NegotiatedGbePortSpeed\_t > NegotiatedGbePortSpeed\_List\_t
- typedef sequence < InTS\_Statistic\_t > InTS\_Statistic\_List\_t
- typedef sequence < InTS\_AES\_Statistic\_t > InTS\_AES\_Statistic\_List\_t
- typedef sequence < DCG\_StreamBackupParams\_t > DCG\_StreamBackupParamsList\_t
- typedef sequence < DCG\_BackupStream\_t > DCG\_BackupStreamList\_t
- typedef sequence < DCG\_Possible3GBoardCfg\_t > DCG\_Possible3GBoardCfgList\_t
- typedef unsigned long DCG\_AudioID\_t  
*IDLs for implementing JPEG2000 functionality on the IP Gateway.*
- typedef sequence < DCG\_AudioPairInfo\_t > DCG\_AudioPairInfo\_List\_t
- typedef sequence < DCG\_AudioSignalInfo\_t > DCG\_AudioSignalInfoList\_t
- typedef sequence < DCG\_CompressionEnable\_t > DCG\_CompressionEnableList\_t
- typedef sequence < unsigned short > DCG\_VBI\_Lines\_t
- typedef sequence < DCG\_JP2K\_params\_t > DCG\_JP2K\_paramsList\_t



- typedef sequence < [DCG\\_JP2K\\_params\\_V2\\_t](#) > [DCG\\_JP2K\\_paramsList\\_V2\\_t](#)
- typedef sequence < [DCG\\_JP2K\\_params\\_V3\\_t](#) > [DCG\\_JP2K\\_paramsList\\_V3\\_t](#)
- typedef sequence < [DCG\\_HitlessSwitchOverEnable\\_t](#) > [DCG\\_HitlessSwitchOverEnable\\_List\\_t](#)
- typedef sequence< [GPI\\_Settings\\_t](#) > [GPI\\_SettingsList\\_t](#)
- typedef sequence < [GPI\\_StatusControl\\_t](#) > [GPI\\_StatusControlList\\_t](#)
- typedef sequence< [ScriptEntry\\_t](#) > [ScriptEntryList\\_t](#)
- typedef sequence < [RipInterfaceSettings](#) > [RipInterfaceSettingsList\\_t](#)
- typedef sequence< [RipTsSettings\\_t](#) > [RipTsSettingsList\\_t](#)
- typedef octet [OutputTsLossTrigger\\_t](#)
- typedef sequence < [OutputTsLossTriggerPerTs\\_t](#) > [OutputTsLossTriggerPerTsList\\_t](#)
- typedef unsigned long [OutputTsLossTriggerBitmap\\_t](#)  
*Bitmap of Output TS loss triggers.*
- typedef sequence < [OutputTsLossTriggerBitmapPerTs\\_t](#) > [OutputTsLossTriggerBitmapPerTsList\\_t](#)

### Public Member Functions

- void [SetSynchronizationType](#) (in [eClock\\_Sync\\_Type](#) Type) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set the synchronization type.*
- void [SetSynchronizationType\\_V2](#) (in [eClock\\_Sync\\_Type\\_V2](#) Type) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set the synchronization type.*
- void [GetSynchronizationType](#) (out [eClock\\_Sync\\_Type](#) Type) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the synchronization type.*
- void [GetSynchronizationType\\_V2](#) (out [eClock\\_Sync\\_Type\\_V2](#) Type) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the synchronization type.*
- void [SetClock](#) (in [Time](#) CurrentTime, in long OffsetMinutes) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set date, time and timezone.*
- void [SetClock2](#) (in [Time](#) CurrentTime, in string TimeZone) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set date and time.*
- [Time](#) [GetClock](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get system date and time in the GMT timezone.*
- void [GetClock2](#) (out [Time](#) CurrentTime, out string Timezone) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get system date, time and timezone.*
- void [SetNTPServers](#) (in [IP\\_List\\_t](#) IPAddresses) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set the list of NTP servers to be used by DCM.*
- void [GetNTPServers](#) (out [IP\\_List\\_t](#) IPAddresses) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the list of NTP servers in use by DCM.*
- [NTP\\_Info\\_List\\_t](#) [GetNTPStatistics](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the NTP statistics.*

- void [SetTableTimeSync](#) (in unsigned long MonitoringInterval, in [Table\\_Sync\\_Info\\_List\\_t](#) SyncList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the necessary parameters for time sync using SI table acquisition and syncs the time.*

- void [GetTableTimeSync](#) (out unsigned long MonitoringInterval, out [Table\\_Sync\\_Info\\_List\\_t](#) SyncList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the parameters used for time sync via SI table acquisition.*

- void [SyncNowOnTimeTable](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Will force an immediate time sync by starting immediate acquisition of the configured SI Table.*

- void [LogOn](#) (in [ClientType](#) Type, in string ClientName, in string Password, in string SecurityKey, out long ClientUniqueNumber) raises (MaxClientsReached, Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Log on, needed to perform most of the operations.*

- void [LogOnForNotif](#) (in long ClientUniqueNumber) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Log on to the notification channel, needed to receive notifications.*

- void [LogOnForNotif2](#) (in long ClientUniqueNumber) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Second version of [LogOnForNotif\(\)](#): [LogOnForNotif2](#).*

- void [LogOnForNotif3](#) (in long ClientUniqueNumber, in [ByteStream](#) ObjectKey) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Third version of [LogOnForNotif\(\)](#): [LogOnForNotif3](#).*

- void [Register](#) (in string ClientName, in string NotificationName) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Register for a notification.*

- void [UnRegister](#) (in string ClientName, in string NotificationName) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Unregister for a notification (see [Register\(\)](#)).*

- void [GetNotifList](#) (out [NotifList\\_t](#) NotifList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list of available notifications.*

- void [LogOff](#) (in string ClientName) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Log off, stop being able to perform most of the operations.*

- void [IsAlive](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Check whether application is reachable via IIOP.*

- [eSystemStartup IsSystemReady](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Check whether application is started up completely.*

- unsigned long [GetUptime](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Return the System Uptime, this is the total running time since manufacture of the chassis.*

- void [GetSystemType](#) (out [eSystemType](#) Type) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Make difference between possible applications running on the DCM platform.*

- void [GetSystemType\\_V2](#) (out [eSystemType\\_V2](#) Type) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Make difference between possible applications running on the DCM platform.*

- void [GetDeviceType](#) (out [eDeviceType](#) Type) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Make difference between possible device types.*
- void [IdentifyMe](#) (in long Duration) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Make it possible to identify a DCM by the LEDs.*
- [TrapDestinationList GetSNMPTrapDest](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the list of SNMP trap destinations.*
- void [AddSNMPTrapDest](#) (in [TrapDestination](#) Destination) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Either add a new or modify an existing SNMP trap destination.*
- void [RemoveSNMPTrapDest](#) (in string IPAddress) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Remove the specified SNMP trap destination.*
- [SNMPCommunityList GetSNMPCommunities](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get all configured SNMP communities.*
- void [AddSNMPCommunity](#) (in [SNMPCommunity](#) Community) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Add a new SNMP community or modify an existing SNMP community.*
- void [RemoveSNMPCommunity](#) (in string Community) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Remove one SNMP Community entry.*
- void [SetSNMP\\_MystroTrapsEnabled](#) (in boolean bEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Enable/Disable sending of Mystro MIB traps (addservice etc)*
- void [GetSNMP\\_MystroTrapsEnabled](#) (out boolean bEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Query whether sending of Mystro MIB traps is enabled.*
- [BoardIdentification GetSystemId](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the system version information.*
- void [SetSystemName](#) (in string Name) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the system unit name.*
- long [GetNbrOfSlots](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the number of boards that a device can have, including mainboard.*
- [PresenceStatus IsBoardPresent](#) (in long SlotNbr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Measure the presence of a board on a particular board location the SlotNbr ranges from 1 to NbrOfSlots.*
- [BoardIdentification GetBoardId](#) (in long SlotNbr) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the boardtype information This call returns input, output, processor, etc.*
- [BoardIdentificationList GetBoardIdExt](#) (in long SlotNbr) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the extended boardtype information This call returns a list of BoardIdentifications: input, output, processor, etc.*

- void [GetUniqueDeviceId](#) (in unsigned short BoardNr, out [UniqueDeviceIdList\\_t](#) UniqueDeviceIdList) raises (Timeout, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the unique device identity information This call returns information which can be shown on the GUI.*
- void [SetUserName](#) (in long SlotNbr, in string UserName) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the user-defined name of a board.*
- void [RebootDCM](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [eRebootType](#) RebootType) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Reboot the DCM or a board Single board reboots are only supported for active IP Adapter Video cards.*
- void [LOG\\_SetLTM](#) (in [IPS\\_Ref\\_t](#) RefPhys, in unsigned long level, in unsigned long type, in unsigned long mid) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Deprecated.*
- void [GetModuleTraceLevel](#) (in unsigned short BoardNumber, out [eTraceLevel](#) TraceLevel, out [ModuleExceptionTraceList\\_t](#) ModuleExceptionTraceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the current Trace level and the list of Module names and Modules Id's.*
- void [SetModuleTraceLevel](#) (in unsigned short BoardNumber, in [eTraceLevel](#) TraceLevel, in [ModuleExceptionTraceList\\_t](#) ModuleExceptionTraceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the current Trace level and enable/disable a list of modules.*
- void [IDL\\_Trace](#) (in unsigned short BoardNumber, in string LogTraces) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Log a string in the trace of a specific board.*
- [BoardInfo\\_List\\_t](#) [BoardGetL](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets a list of present boards in the device and their board type.*
- [BoardInfo\\_List\\_V2\\_t](#) [BoardGetL\\_V2](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets a list of present boards in the device and their board type.*
- [BoardCfg\\_List\\_t](#) [BoardCfgGetL](#) (in unsigned short BoardNumber, in [PortList\\_t](#) PortList) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*(Deprecated) Gets the configuration of a number of ports.*
- void [BoardCfgSet](#) (in [BoardCfg\\_t](#) BoardCfg) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*(Deprecated) Configure one port.*
- [BoardCfg\\_V2\\_List\\_t](#) [BoardCfg\\_V2\\_GetL](#) (in unsigned short BoardNumber, in [PortList\\_t](#) PortList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the configuration of a number of ports - version 2.*
- void [BoardCfg\\_V2\\_Set](#) (in [BoardCfg\\_V2\\_t](#) BoardCfg) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange, LicenseError)  
*Configure one port - version 2.*
- void [PortDisableModeSet](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ePortDisableMode](#) PortDisableMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Configure the port disable mode for a GbE portset.*
- void [PortDisableModeGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [ePortDisableMode](#) PortDisableMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Request the port disable mode for a GbE portset.*
- void [BoardsConnected](#) (in unsigned short BoardNr, out [BoardList\\_t](#) BoardList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets a list of all boards (hw) connected to a specified BoardNr.*

- void [BoardGetTemperatures](#) (in unsigned short BoardNr, out [BoardTemperature\\_List\\_t](#) BoardTemperature\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets a list of all temperatures which can be measured.*

- void [IPS\\_IP\\_ParamsMbGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out string IPAddress, out string SubNetMask, out string DefaultGw, out string MacAddress) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the IP address, network mask, default gateway and MAC address for a mainboard interface.*

- void [IPS\\_IP\\_ParamsMbSet](#) (in [IPS\\_Ref\\_t](#) RefPhys, in string IPAddress, in string SubNetMask, in string DefaultGw, in boolean Apply) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the IP address, network mask and default gateway for a mainboard interface.*

- void [IPS\\_IPv6\\_ParamsMbGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out string IPAddress, out string SubNetMask, out string DefaultGw, out string MacAddress) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the IP address, network mask, default gateway and MAC address for a mainboard interface.*

- void [IPS\\_IPv6\\_ParamsMbSet](#) (in [IPS\\_Ref\\_t](#) RefPhys, in string IPAddress, in string SubNetMask, in string DefaultGw) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the IP address, network mask, default gateway and MAC address for a mainboard interface.*

- void [IPS\\_IP\\_ParamsMbGet\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [IP\\_SubnetList\\_t](#) IPConfig, out string MacAddress) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets all the IP addresses, prefix lengths, default gateways, aliases and MAC address for a mainboard interface.*

- void [IPS\\_IP\\_ParamsMbSet\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_SubnetList\\_t](#) IPConfig, in boolean Apply) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Sets all the IP addresses, prefix lengths, default gateways and aliases for a mainboard interface.*

- void [SetGbePortMode](#) (in unsigned short BoardNr, in [eGbePortMode\\_t](#) Mode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the given board in either individual port mode (2I2O) or port pairs mode.*

- [eGbePortMode\\_t](#) [GetGbePortMode](#) (in unsigned short BoardNr) raises (TimeOut, OpNotAllowed, OpNotSupported)

*Returns the Gbe port mode of the given board.*

- void [GetNicTeamStatus](#) (out [NicTeamStatus](#) status) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the NIC team status.*

- void [GetNicTeamSettings](#) (out [NicTeam\\_Settings](#) settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the NIC team configuration.*

- void [SetNicTeamSettings](#) (in [NicTeam\\_Settings](#) settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set the NIC team configuration.*

- [IPS\\_ReferenceTS\\_List\\_t](#) [IPS\\_Lookup\\_TSs](#) (in unsigned short BoardNumber, in [IPS\\_LookupTS\\_List\\_t](#) LookUpTS\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed, OutOfRange)

*Gets the TS indexes for a number of transport streams.*

- [IPS\\_ReferenceTS\\_List\\_t](#) [IPS\\_FindTSs](#) (in unsigned short BoardNumber, in [IPS\\_LookupTS\\_List\\_t](#) LookUpTS\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the TS indexes for a number of transport streams.*

- void [ReserveInputTS](#) (in [IPS\\_RefTS\\_t](#) TS, in unsigned long Reserve) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Reserves input TS If a TS is created and not used (no services or PIDs passed from that TS or TS has no input settings) and the TS is not present at the input, it will be deleted after two minutes.*
- [IPS\\_InputTS\\_List\\_t](#) [IPS\\_InTS\\_GetL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get a list of incoming transport streams.*
- [IPS\\_Gbe\\_InputTS\\_List\\_t](#) [IPS\\_Gbe\\_InTS\\_GetL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get a list of Gbe information of incoming transport streams.*
- [Debug\\_Gbe\\_InputTS\\_List\\_t](#) [DebugGbeStreamInGetL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get a list of Gbe information of incoming transport streams.*
- void [InputTsExistenceGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [InTsExistenceReasonsList\\_t](#) lst) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get reason of existence for some input TS.*
- [Debug\\_Gbe\\_OutputTS\\_List\\_t](#) [DebugGbeStreamOutGetL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get a list of Gbe information of outgoing transport streams.*
- void [IPS\\_OutTS\\_AddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in unsigned long NbrOutTS, out [IPS\\_OutputTS\\_List\\_t](#) OutputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Create a number of TS on given Slot and Port based on the defined defaults ([IPS\\_OutDefaultsSet\(\)](#), [IPS\\_OutDefaultsGet\(\)](#)).*
- void [IPS\\_OutTS\\_AddL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in unsigned long NbrOutTS, out [IPS\\_OutputTS\\_List\\_V2\\_t](#) OutputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Create a number of TS on given Slot and Port based on the defined defaults ([IPS\\_OutDefaultsSet\(\)](#), [IPS\\_OutDefaultsGet\(\)](#)).*
- void [IPS\\_OutTS\\_ChangeL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_OutputTS\\_List\\_t](#) OutputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)
 

*Change the parameters of one or more existing outgoing TS.*
- void [IPS\\_OutTS\\_ChangeL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_OutputTS\\_List\\_V2\\_t](#) OutputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)
 

*Change the parameters of one or more existing outgoing TS.*
- void [IPS\\_InTS\\_ChangeL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_ChangeInputTS\\_List\\_t](#) InputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Change the parameters of one or more existing incoming TS.*
- [IPS\\_OutputTS\\_List\\_t](#) [IPS\\_OutTS\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get a list of outgoing transport streams and their parameters.*
- [IPS\\_OutputTS\\_List\\_V2\\_t](#) [IPS\\_OutTS\\_GetL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get a list of outgoing transport streams and their parameters.*
- void [GbeIO\\_OutStreamIP\\_ChangeL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [GbeIO\\_IP\\_Settings\\_List\\_t](#) OutputGbeIO\_StreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)
 

*Change the IPv4 or IPv6 header parameters of one or more existing outgoing Gbe IO streams.*
- [GbeIO\\_IP\\_Settings\\_List\\_t](#) [GbeIO\\_OutStreamIP\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get the IPv4 or IPv6 parameters for a list of outgoing transport streams.*



- [IPS\\_OutputTS\\_List\\_t](#) [IPS\\_OutTS\\_GetFilteredL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList, in boolean ScrambledOnly) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get a filtered list of outgoing transport streams and their parameters.*
- [IPS\\_OutputTS\\_List\\_V2\\_t](#) [IPS\\_OutTS\\_GetFilteredL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList, in boolean ScrambledOnly) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get a filtered list of outgoing transport streams and their parameters.*
- void [IPS\\_OutTS\\_DeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete a list of TSs.*
- void [IPS\\_OutDefaultsSet](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_UDP\\_Socket\\_t](#) Socket, in long IBitrate, in [eIPS\\_IncrScheme](#) Incr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set defaults for new TS created with [IPS\\_OutTS\\_AddL\(\)](#).*
- void [IPS\\_OutDefaultsGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [IPS\\_UDP\\_Socket\\_t](#) Socket, out long IBitrate, out [eIPS\\_IncrScheme](#) Incr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get current set of defaults for a new TS.*
- void [SetDefault\\_SourceUdp](#) (in unsigned short Board, in unsigned short SourceUdp) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the default source UDP port number for a new TS.*
- void [GetDefault\\_SourceUdp](#) (in unsigned short Board, out unsigned short SourceUdp) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the current default source UDP port number for a new TS.*
- void [IPS\\_SetDefaultStandard](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [eEsTypeStandard](#) eIn, in [eEsTypeStandard](#) eOut) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set defaults eEsTypeStandard for input and output for new TS.*
- void [IPS\\_GetDefaultStandard](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [eEsTypeStandard](#) eIn, out [eEsTypeStandard](#) eOut) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get current default eEsTypeStandard for input and output.*
- void [GetSI\\_DefaultPayoutPeriods](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [SI\\_Table\\_Period\\_List\\_t](#) Periods) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*this gets the current defaults for all supported SI tables*
- void [SetSI\\_DefaultPayoutPeriods](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [SI\\_Table\\_Period\\_List\\_t](#) Periods) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*this sets the defaults for any subset of the supported SI tables (or for all)*
- void [OutTS\\_GetSI\\_PayoutPeriods](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) TS\_List, out [TS\\_SI\\_Table\\_Periods\\_List\\_t](#) Periods) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*this gets the payout periods for all supported SI tables for one or more TS*
- void [OutTS\\_SetSI\\_PayoutPeriods](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TS\\_SI\\_Table\\_Periods\\_List\\_t](#) Periods) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*this gets the payout periods for all supported SI tables for one or more TS*
- void [GetSI\\_DefaultGenerationModes](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [SI\\_Table\\_GenerationMode\\_List\\_t](#) Modes) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*This gets the default generation mode of all supported SI tables for one or more TS.*
- void [SetSI\\_DefaultGenerationModes](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [SI\\_Table\\_GenerationMode\\_List\\_t](#) Modes) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*This sets the default generation mode of all supported SI tables for one or more TS.*
- void [SetTOT\\_Timezones](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TS\\_TOT\\_Timezone\\_List\\_t](#) Timezones) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

*This sets the TOT descriptor timezones for one or more TS's.*

- void [GetTOT\\_Timezones](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) TS\_List, out [TS\\_TOT\\_Timezone\\_List\\_t](#) Timezones) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

*This gets the TOT descriptor timezones for one or more TS's.*

- void [IPS\\_OutPID\\_GetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ePID\\_Type](#) PID\_Type, out [IPS\\_OutPID\\_Data2\\_List\\_t](#) PID\_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the list of PID's on a OutputTS.*

- void [IPS\\_InPID\\_GetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ePID\\_Type](#) PID\_Type, out [IPS\\_In\\_PID\\_List\\_t](#) PID\_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the list of PID's on a InputTS.*

- void [IPS\\_InPID\\_GetL\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ePID\\_Type](#) PID\_Type, out [IPS\\_In\\_PID\\_List\\_V2\\_t](#) PID\_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the list of PID's on a InputTS (including property bits).*

- void [IPS\\_OutEMM\\_AddL](#) (in [IPS\\_RefTS\\_t](#) RefTS\_Out, in [InEMM\\_RefList\\_t](#) PID\_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Routes a number of EMM pids to an output TS.*

- void [IPS\\_OutEMM\\_DeL](#) (in [IPS\\_RefTS\\_t](#) RefTS\_Out, in [InEMM\\_RefList\\_t](#) PID\_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Removes the routing for a number of EMM pids to an output TS.*

- void [InEMM\\_GetL](#) (in [InEMM\\_RefList\\_t](#) EMM\_RefList, out [EMM\\_DataList\\_t](#) EMM\_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the list of additional information of all EMM's/PD's at the output.*

- void [SetDefaultForbiddenPidRanges](#) (in unsigned short SlotNumber, in [ForbiddenPidRange\\_List\\_t](#) RangeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets a number of default Forbidden Output PID ranges (PIDs that may not be used at the Output).*

- void [GetDefaultForbiddenPidRanges](#) (in unsigned short SlotNumber, out [ForbiddenPidRange\\_List\\_t](#) RangeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the default forbidden pid ranges.*

- void [SetForbiddenPidRanges](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ForbiddenPidRange\\_List\\_t](#) RangeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets a number of Forbidden Output PID ranges (PIDs that may not be used at the Output).*

- void [GetForbiddenPidRanges](#) (in [IPS\\_RefTS\\_t](#) RefTS, out [ForbiddenPidRange\\_List\\_t](#) RangeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the forbidden pid ranges for a specific output transport stream.*

- void [IPS\\_OutPID\\_AddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_OutPID\\_DataList\\_t](#) PID\_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Passes a list of (unreferenced) PID's to an OutputTS.*

- void [IPS\\_OutPID\\_DeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_OutPID\\_DataList\\_t](#) PID\_DataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Deletes the list of PID's on a OutputTS.*

- void [IPS\\_ProcessRoutingFile](#) (in [RoutingFileData\\_t](#) FileData) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Process the upload of a routing file.*

- void [IPS\\_RoutingFileProgress](#) (out boolean Finished, out long CurrentValue, out long TotalValue) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Indicates the progress of the upload of a routing file.*

- void [IPS\\_RoutingFileStatus](#) (out [eRoutingStatusResult](#) Result, out [RoutingStatusRecord\\_List\\_t](#) - StatusRecords) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)



*Indicates the status of the upload of a routing file.*

- void [IPS\\_RetrieveRoutingFile](#) (in char Separator, in char DecimalPoint, in [charSequence](#) EOL-Marker, out [RoutingFileData\\_t](#) FileData) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Retrieve the current routing in CSV format.*

- void [OutTS\\_GetTSAutoPassRules](#) (in [IPS\\_RefTS\\_t](#) RefOutTS, out [TS\\_AutoPassRules\\_List\\_t](#) AutoPassRulesList, out [TS\\_AutoPassRulesDisableFlags](#) AutoPassRulesDisableFlags) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the Auto Pass Rules for an Output TS (MPTS Pass Through).*

- void [OutTS\\_SetTSAutoPassRules](#) (in [IPS\\_RefTS\\_t](#) RefOutTS, in [TS\\_AutoPassRules\\_List\\_t](#) AutoPassRulesList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the Auto Pass Rules for an Output TS (MPTS Pass Through).*

- void [SetDefaultAutoPassRules](#) (in unsigned short BoardNr, in [DefaultAutoPassRules](#) rules) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the board default auto pass rules for service component passing.*

- void [GetDefaultAutoPassRules](#) (in unsigned short BoardNr, out [DefaultAutoPassRules](#) rules) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the board default auto pass rules for service component passing.*

- void [OutTS\\_GetServiceAutoPassRules](#) (in [IPS\\_RefTS\\_t](#) RefOutTS, out [Service\\_AutoPassRules](#) - AutoPassRules) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get current service component auto pass rules.*

- void [OutTS\\_SetServiceAutoPassRules](#) (in [IPS\\_RefTS\\_t](#) RefOutTS, in [Service\\_AutoPassRules](#) AutoPassRules) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set service component auto pass rules.*

- void [OutTS\\_SetSubtableAutoPass](#) (in [IPS\\_RefTS\\_t](#) RefOutTS, in [SI\\_AutoPassRules\\_List\\_t](#) SI\_AutoPassRules\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set SI subtable auto pass rules.*

- void [OutTS\\_GetSubtableAutoPass](#) (in [IPS\\_RefTS\\_t](#) RefOutTS, out [SI\\_AutoPassRules\\_List\\_t](#) SI\_AutoPassRules\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get current SI subtable auto pass rules.*

- void [OutTS\\_NitInPat\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_NitInPat\\_List\\_t](#) OutTS\_NitInPat\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set TS NIT in PAT mode.*

- void [OutTS\\_NitInPat\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_NitInPat\\_List\\_t](#) OutTS\_NitInPat\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get TS NIT in PAT mode.*

- void [SetDefault\\_NitInPat](#) (in unsigned short BoardNumber, in [eNitInPat](#) NitInPat) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set default Nit in PAT mode settings to be used for newly created output TSs Defaults are attached to a board.*

- void [GetDefault\\_NitInPat](#) (in unsigned short BoardNumber, out [eNitInPat](#) NitInPat) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get default Nit in Pat mode setting Defaults are attached to a board.*

- void [OutTS\\_InsertCATDescriptors\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_InsertCATDescriptors\\_List\\_t](#) OutTS\_InsertCATDescriptors\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set TS Insert CAT Descriptors mode.*

- void [OutTS\\_InsertCATDescriptors\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_InsertCATDescriptors\\_List\\_t](#) OutTS\_InsertCATDescriptors\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get TS Insert CAT Descriptors mode.*

- void [SetDefault\\_InsertCATDescriptors](#) (in unsigned short BoardNumber, in [eInsertCATDescriptors](#) InsertCATDescriptors) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set default Insert CAT Descriptors mode settings to be used for newly created output TSs Defaults are attached to a board.*

- void [GetDefault\\_InsertCATDescriptors](#) (in unsigned short BoardNumber, out [eInsertCATDescriptors](#) InsertCATDescriptors) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get default Insert CAT Descriptors mode setting Defaults are attached to a board.*

- void [TimeBaseSelectionMode\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [InTS\\_TimeBaseSelectionMode\\_List\\_t](#) TBS\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the Time Base Selection Mode for a list of input TSs.*

- void [TimeBaseSelectionMode\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [InTS\\_TimeBaseSelectionMode\\_List\\_t](#) TBS\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the Time Base Selection Mode for a list of input TSs.*

- void [TimeBaseSelectionMode\\_DelL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Revert the Time Base Selection Mode to default for a list of input TSs.*

- void [SetDefaultTimeBaseSelectionMode](#) (in unsigned short BoardNumber, in [eTimeBaseSelectionMode](#) TBS\_Mode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set default Time Base Selection Mode to be used for newly created input TSs.*

- void [GetDefaultTimeBaseSelectionMode](#) (in unsigned short BoardNumber, out [eTimeBaseSelectionMode](#) TBS\_Mode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get default Time Base Selection Mode that is used for newly created input TSs.*

- void [BoardDejitterCfgSet](#) (in unsigned short BoardNumber, in [BoardDejitterCfg\\_t](#) CfgIn) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the board default VBR and CBR latency.*

- void [BoardDejitterCfgGet](#) (in unsigned short BoardNumber, out [BoardDejitterCfg\\_t](#) CfgOut) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the board default VBR and CBR latency.*

- void [TimeBaseSelectionMode\\_V2\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [InTS\\_TimeBaseSelectionMode\\_List\\_V2\\_t](#) TBS\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set the Time Base Selection Mode for a list of input TSs.*

- void [TimeBaseSelectionMode\\_V2\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [InTS\\_TimeBaseSelectionMode\\_List\\_V2\\_t](#) TBS\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the Time Base Selection Mode for a list of input TSs.*

- void [SetDefaultTBSMode\\_V2](#) (in unsigned short BoardNumber, in [eTimeBaseSelectionMode\\_V2](#) TBS\_Mode, in boolean FastLock) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set default Time Base Selection Mode to be used for newly created input TSs.*

- void [GetDefaultTBSMode\\_V2](#) (in unsigned short BoardNumber, out [eTimeBaseSelectionMode\\_V2](#) TBS\_Mode, out boolean FastLock) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get default Time Base Selection Mode that is used for newly created input TSs.*

- void [InTS\\_PriorityBits\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [InTS\\_PriorityBit\\_List\\_t](#) InTS\_PriorityBit\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Change the transport priority bit behavior for one or more existing incoming TS.*

- [InTS\\_PriorityBit\\_List\\_t](#) [InTS\\_PriorityBits\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list of transport priority bit settings for a number of incoming transport streams.*

- void [InTS\\_PriorityBits\\_DelL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Revert the Priority Bit setting to default for a list of input TSs.*

- void [SetDefaultPriorityBit](#) (in unsigned short SlotNbr, in [ePriorityBitMode](#) PriorityBitSetting) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set default priority setting for new input TS.*

- void [GetDefaultPriorityBit](#) (in unsigned short SlotNbr, out [ePriorityBitMode](#) PriorityBitSetting) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get current default PrioBitSetting.*

- void [SetPassMotorolaTables](#) (in unsigned short BoardNumber, in boolean Pass) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the Pass Motorola C0/C1 table setting.*

- void [GetPassMotorolaTables](#) (in unsigned short BoardNumber, out boolean Pass) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get current Pass Motorola C0/C1 table setting.*

- void [IPS\\_OutTS\\_LT\\_AddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_OutputTS\\_LT\\_List\\_t](#) OutputTSList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Create a number of Transparent Loop Through TSs on given Slot and Port.*

- void [IPS\\_OutTS\\_LT\\_AddL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_OutputTS\\_LT\\_List\\_V2\\_t](#) OutputTSList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Create a number of Transparent Loop Through TSs on given Slot and Port.*

- void [IPS\\_OutTS\\_LT\\_ChangeL](#) (in unsigned short BoardNumber, in [IPS\\_OutputTS\\_LT\\_List\\_t](#) - OutputTSList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Change the parameters of one or more existing outgoing TS.*

- void [IPS\\_OutTS\\_LT\\_ChangeL\\_V2](#) (in unsigned short BoardNumber, in [IPS\\_OutputTS\\_LT\\_List\\_V2\\_t](#) OutputTSList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Change the parameters of one or more existing outgoing TS.*

- [IPS\\_OutputTS\\_LT\\_List\\_t](#) [IPS\\_OutTS\\_LT\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of outgoing Transparent Loop Through TSs and their parameters.*

- [IPS\\_OutputTS\\_LT\\_List\\_V2\\_t](#) [IPS\\_OutTS\\_LT\\_GetL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of outgoing Transparent Loop Through TSs and their parameters.*

- [PortTsSvcProps\\_List\\_t](#) [PortInTsSvcPropsGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the aggregated TS and Service Properties per Input Port.*

- [PortTsSvcProps\\_List\\_t](#) [PortOutTsSvcPropsGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the aggregated TS and Service Properties per Output Port.*

- [IPS\\_ServiceIn\\_List\\_t](#) [IPS\\_InServiceGetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) InputSidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the list of services on an input TS that are passed to an output or currently present in the incoming transport stream.*

- [IPS\\_ServiceDataOut\\_List\\_t IPS\\_OutServiceGetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list of services on an output TS.*

- void [IPS\\_OutServiceDeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_Service\\_List\\_t](#) ServiceList) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete a list of services in one or more TS on the same board.*

- void [IPS\\_OutServiceAddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_ServiceDataOut\\_List\\_t](#) ServiceDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add a list of services to one or more outgoing TS on the same RefPhys.*

- void [IPS\\_InServiceSetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_ServiceIn\\_List\\_t](#) ServiceDataList) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set service details via a list on an input TS.*

- void [IPS\\_OutServiceSetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_ServiceDataOut\\_List\\_t](#) ServiceDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set service details via a list on an output TS.*

- void [IPS\\_OutServiceAddMergeL](#) (in [IPS\\_Service\\_t](#) OutService, in [IPS\\_Service\\_List\\_t](#) ServiceMergeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Merge list of input services into an output service.*

- void [IPS\\_OutServiceDelMergeL](#) (in [IPS\\_Service\\_t](#) OutService, in [IPS\\_Service\\_List\\_t](#) ServiceMergeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*remove list of merged services from an output service.*

- void [IPS\\_OutServiceGetMergeL](#) (in [IPS\\_Service\\_t](#) OutService, out [IPS\\_MergedInServiceList\\_t](#) ServiceMergeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*get list of merged services from an output service.*

- void [IPS\\_OutServiceAddMergeL\\_V2](#) (in [IPS\\_Service\\_t](#) SvcOut, in [AltSrcMergedSetting\\_t](#) AltSrcMergedSetting) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add merged source settings to an output service.*

- void [IPS\\_OutServiceGetMergeL\\_V2](#) (in [IPS\\_Service\\_t](#) SvcOut, in [AlternateSrcIdList\\_t](#) AlternateSrcIdList, out [AltSrcMergedSettingList\\_t](#) AltSrcMergedSetting) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*get list of merged services for a specific output service*

- void [IPS\\_OutServiceDelMergeL\\_V2](#) (in [IPS\\_Service\\_t](#) SvcOut, in [AltSrcMergedSetting\\_t](#) AltSrcMergedSetting) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*remove list of merged services from output services.*

- void [IPS\\_OutServiceSetComponentMergeL](#) (in [IPS\\_Service\\_t](#) OutService, in [ComponentMerge-CriterionList\\_t](#) ComponentMergeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the list of merged component tracking criteria for an output service.*

- void [IPS\\_OutServiceGetComponentMergeL](#) (in [IPS\\_Service\\_t](#) OutService, out [ComponentMerge-CriterionList\\_t](#) ComponentMergeList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of all merged component tracking criteria from an output service.*

- void [IPS\\_LookupOutService](#) (in [IPS\\_RefTS\\_t](#) OutputTS, in [IPS\\_Service\\_t](#) InputService, out [IPS\\_Service\\_t](#) OutputLookedUpService) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets matching output service for an input service and output TS.*

- [IPS\\_Serv\\_Dest\\_List\\_t](#) [GetDestinations](#) (in [IPS\\_Service\\_t](#) InputService) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported)

*Find where a certain input service is routed to.*

- [ServiceBlockCAInfo\\_List\\_t ServiceBlockCAInfoGetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Retrieves for every service in the given list, if the BlockCA option is turned on.*

- void [ServiceBlockCAInfoSetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceBlockCAInfo\\_List\\_t](#) ServiceBlockCAInfoList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Enables/disables blocking of CA info for a list of services.*

- void [IPS\\_OutServiceSetL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_ServiceDataOut\\_List\\_V2\\_t](#) ServiceDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set service details via a list on an output TS.*

- [IPS\\_ServiceDataOut\\_List\\_V2\\_t IPS\\_OutServiceGetL\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list of services on an output TS.*

- [IPS\\_ServiceDataOut\\_List\\_V3\\_t IPS\\_OutServiceGetL\\_V3](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list of services on an output TS.*

- [TC\\_ServiceData\\_List\\_t TC\\_ServiceGetL](#) (in unsigned short BoardNr, in [IPS\\_RefSvc\\_List\\_t](#) RefSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list of services on a transcoder board.*

- void [TC\\_ServiceSetL](#) (in unsigned short BoardNr, in [TC\\_ServiceData\\_List\\_t](#) ServiceDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set service details of transcoder board services.*

- [TC\\_ServiceData\\_List\\_t ProcessorServiceAddL](#) (in unsigned short BoardNr, in [IPS\\_RefSvc\\_List\\_t](#) InputRefSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add a list of services to a transcoder or MFP board and returns the output service data for those services.*

- [TC\\_ServiceDataV2\\_List\\_t TC\\_ServiceGetLV2](#) (in unsigned short BoardNr, in [IPS\\_RefSvc\\_List\\_t](#) RefSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the list of services on a transcoder board.*

- void [TC\\_ServiceSetLV2](#) (in unsigned short BoardNr, in [TC\\_ServiceDataV2\\_List\\_t](#) ServiceDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set service details of transcoder board services.*

- void [TC\\_ServiceAddL](#) (in unsigned short BoardNr, in [IPS\\_RefSvc\\_List\\_t](#) InputRefSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add a list of services to a transcoder board or MFP board.*

- void [TC\\_ServiceDeleteL](#) (in unsigned short BoardNr, in [IPS\\_RefSvc\\_List\\_t](#) RefSvcList) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete a list of services on a transcoder board.*

- void [SetSvcOutStreaming](#) (in [IPS\\_RefTS\\_t](#) RefTs, in [SvcOutStreamingSettingList\\_t](#) SvcOutStreamingSettingList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set Output Service streaming state.*

- [SvcOutStreamingSettingList\\_t GetSvcOutStreaming](#) (in [IPS\\_RefTS\\_t](#) RefTs, in [ServiceIdList\\_t](#) - SidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get Output Service streaming state.*

- void [SetDefaultSvcOutStreaming](#) (in unsigned short BoardNr, in boolean StreamingState) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the board default output service streaming state.*

- boolean [GetDefaultSvcOutStreaming](#) (in unsigned short BoardNr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)



*Get board default output service streaming state.*

- [IPS\\_Out\\_ServiceComponents\\_List\\_t](#) [IPS\\_OutSvcGetPIDsL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of service components for services on given port and TS.*

- [IPS\\_Out\\_ServiceComponents\\_List\\_V2\\_t](#) [IPS\\_OutSvcGetPIDsL\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of service components for services on given port and TS.*

- [IPS\\_In\\_ServiceComponents\\_List\\_t](#) [IPS\\_InSvcGetPIDsL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) InputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of service components for services on given port and TS.*

- void [IPS\\_PassBlockPids](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServicePIDStatus\\_List\\_t](#) ServicePIDStatusList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Block or unblock pids in a list of services on an output TS.*

- void [SetSI\\_Generation](#) (in [IPS\\_RefTS\\_t](#) OutRefTS, in [TableGenerationDataList\\_t](#) TableSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Change the automatic regeneration of a certain SI table so that it can be passed transparently or "alternatively" regenerated from a non-default input or from local disk (table imported over ethernet).*

- void [GetSI\\_Generation](#) (in [IPS\\_RefTS\\_t](#) OutRefTS, out [TableGenerationDataList\\_t](#) TableSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*(Deprecated) Returns a list of all output table settings.*

- void [GetSI\\_Generation\\_V2](#) (in [IPS\\_RefTS\\_t](#) OutRefTS, out [TableGenerationDataList\\_V2\\_t](#) TableSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Returns a list of all output table settings.*

- void [GetDefaultCompTrackRuleL](#) (in unsigned short BoardNr, in [LongStream](#) RuleIds, out [DefaultTrackRuleList\\_t](#) theList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a (filtered) set of default component tracking rules for given TS.*

- void [SetDefaultCompTrackRuleL](#) (in unsigned short BoardNr, in [DefaultTrackRuleList\\_t](#) theList, in [LongStream](#) IDsofRulesToDelete) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update set of default component tracking rules for given board.*

- void [IPS\\_OutGetComponentTrackRuleL](#) (in [IPS\\_RefTS\\_t](#) OutRefTS, out [ComponentTrackRuleList\\_t](#) theList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the current set of component tracking rules for given TS.*

- void [IPS\\_OutGetComponentTrackRuleL\\_Filt](#) (in [IPS\\_RefTS\\_t](#) OutRefTS, in [LongStream](#) RuleIds, out [ComponentTrackRuleList\\_t](#) theList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a filtered set of component tracking rules for given TS.*

- void [IPS\\_OutSetComponentTrackRuleL](#) (in [IPS\\_RefTS\\_t](#) OutRefTS, in [ComponentTrackRuleList\\_t](#) theList, in [LongStream](#) IDsofRulesToDelete) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update set of component tracking rules for given TS.*

- void [IPS\\_OutGetComponentTrackRuleL\\_V2](#) (in [IPS\\_RefTS\\_t](#) OutRefTS, out [ComponentTrackRuleList\\_V2\\_t](#) theList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the current set of component tracking rules for given TS.*

- void [IPS\\_OutGetCompTrackRuleL\\_Filt\\_V2](#) (in [IPS\\_RefTS\\_t](#) OutRefTS, in [LongStream](#) RuleIds, out [ComponentTrackRuleList\\_V2\\_t](#) theList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a filtered set of component tracking rules for given TS.*

- void [IPS\\_OutSetComponentTrackRuleL\\_V2](#) (in [IPS\\_RefTS\\_t](#) OutRefTS, in [ComponentTrackRuleList\\_V2\\_t](#) theList, in [LongStream](#) IDsofRulesToDelete) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Update set of component tracking rules for given TS.*
- void [IPS\\_ServiceCompSettingsGetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, out [ServiceCompSettingsList\\_t](#) ServiceCompSettingsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the list of service component settings for given TS.*
- void [IPS\\_OutSvcGetComponentTagL](#) (in [IPS\\_RefTS\\_t](#) RefTS, out [ComponentTagList\\_t](#) ComponentTagList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the list of components (pids) and their tag.*
- void [OutService\\_AddESFromPidL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [CompPidESList\\_t](#) CompPidESList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add a list of pid components to output service(s).*
- void [OutService\\_DeleteESFromPidL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [CompPidESList\\_t](#) CompPidESList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete a list of pid components from output service(s).*
- void [OutService\\_GetESFromPidL](#) (in [IPS\\_RefTS\\_t](#) RefTS, out [CompPidESList\\_t](#) CompPidESList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get a list of pid components from output service(s).*
- void [OutService\\_AddESFromPidL\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [CompPidESList\\_V2\\_t](#) CompPidESList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add a list of pid components to output service(s) V2.*
- void [OutService\\_DeleteESFromPidL\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [CompPidESList\\_V2\\_t](#) CompPidESList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete a list of pid components from output service(s) V2.*
- void [OutService\\_GetESFromPidL\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, out [CompPidESList\\_V2\\_t](#) CompPidESList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get a list of pid components from output service(s) V2.*
- void [SetES\\_TypeRules](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [SvcOutES\\_TypeSettingList\\_t](#) SvcOutES\_TypeSettingList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the ES type for a number of output PIDs for a number of services.*
- [SvcOutES\\_TypeSettingList\\_t](#) [GetES\\_TypeRules](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the ES type settings for a list of services.*
- void [SetPcrPids](#) (in [IPS\\_RefSvc\\_t](#) ServiceOut, in [PcrSettingList\\_t](#) PcrSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the PCR PID for a (virtual) output service.*
- [PcrSettingList\\_t](#) [GetPcrPids](#) (in [IPS\\_RefSvc\\_t](#) ServiceOut, in [AlternateSrcIdList\\_t](#) AlternateSrcIdList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the PCR PID settings from a (virtual) output service.*
- void [CreateVlanPortSet](#) (in [VlanPortSet\\_t](#) Settings, out [IPS\\_Ref\\_t](#) RefVlanPortSet) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Creates a Vlan Port Set on a GbE board.*
- void [DeleteVlanPortSet](#) (in [IPS\\_Ref\\_t](#) RefVlanPortSet) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete a Vlan PortSet.*
- void [GetVlanPortSets](#) (in [IPS\\_Ref\\_t](#) RefPhysPortSet, out [VlanPortSetList\\_t](#) VlanPortSetList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*get all vlan portsets connect to a physical portset.*

- void [IPS\\_IP\\_ParamsSet](#) (in [IPS\\_Ref\\_t](#) RefPhys, in string IPAddress, in string SubNetMask, in [eIPS\\_AutoNegociation](#) AutoNeg) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the IP addresses, network mask and default gateway for a GbE port.*

- void [IPS\\_IP\\_ParamsGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out string IPAddress, out string SubNetMask, out [eIPS\\_AutoNegociation](#) AutoNeg, out string MacAddress) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the IP address, network mask and default gateway for a Gigabit ethernet output.*

- void [IPS\\_SelectModeSet](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [eIPS\\_PortSelectMode](#) Mode, in [eIPS\\_PortSelectRevert](#) Revert, in unsigned long RevertDelay) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Activates a certain Gige output port.*

- void [IPS\\_SelectModeGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [eIPS\\_PortSelectMode](#) Mode, out [eIPS\\_PortSelectRevert](#) Revert, out unsigned long RevertDelay) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the active output mode status.*

- unsigned long [IPS\\_SelectedPortGet](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the selected port based on the SelectMode and the linkstatuses.*

- void [IPS\\_SetPortBackupTrigger](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ePortBackupTrigger](#) eTrigger) raises (-Timeout, OpNotSucceeded, OpNotSupported)

*Set the port backup trigger mode (trigger on link loss only or on link or udp loss)*

- void [IPS\\_GetPortBackupTrigger](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [ePortBackupTrigger](#) eTrigger) raises (Timeout, OpNotSucceeded, OpNotSupported)

*Gets the port backup trigger mode (trigger on link loss only or on link or udp loss)*

- void [IPS\\_SetPortMirrorMode](#) (in [IPS\\_Ref\\_t](#) RefPhys, in boolean EnablePortMirroring) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set port mirroring on GbE ports A GbE portpair can be used in Port Mirroring mode: both main and backup ports are actively streaming and the backup port streams out an exact copy of the active port.*

- void [IPS\\_GetPortMirrorMode](#) (in [IPS\\_Ref\\_t](#) RefPhys, out boolean EnablePortMirroring) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get port mirroring status of GbE ports A GbE portpair can be used in Port Mirroring mode: both main and backup ports are actively streaming and the backup port streams out an exact copy of the active port.*

- void [SetAsiFormat](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [AsiFormatDataList\\_t](#) AsiFormatList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the ASI format and output mode of ASI output ports.*

- [AsiFormatDataList\\_t](#) [GetAsiFormat](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the ASI format (input & output ports) and output mode of ASI output ports.*

- void [ASI\\_MirrorCfgGetL](#) (in unsigned short BoardNr, out [ASI\\_MirrorCfgList\\_t](#) MirrorCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the port mirror configuration of the ASI ports.*

- void [ASI\\_MirrorCfgSetL](#) (in unsigned short BoardNr, in [ASI\\_MirrorCfgList\\_t](#) MirrorCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the port mirror configuration of the ASI ports.*

- void [InPort\\_ASI\\_BW\\_Limit\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ASI\\_BW\\_LimitDataList\\_t](#) Settings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Enable/disable the ASI bandwidth limiting feature and set its bitrate.*

- [ASI\\_BW\\_LimitDataList\\_t](#) [InPort\\_ASI\\_BW\\_Limit\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)



*Get the ASI bandwidth limiting data.*

- void [PortOutputStreamingSet](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ePortStreamingType](#) PortOutputStreaming) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the port output streaming setting.*

- void [PortOutputStreamingGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [ePortStreamingType](#) PortOutputStreaming, out boolean bStreaming) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the port output streaming setting.*

- void [SetPortPairMirror](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_Ref\\_t](#) MirroredPort) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the given port pair in mirror mode.*

- void [GetPortPairMirror](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [IPS\\_Ref\\_t](#) MirroredPort) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Returns the port pair mirror for the supplied port.*

- void [InPort\\_8VSB\\_TuningParams\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [InPort\\_8VSB\\_TuningParams\\_List\\_t](#) Settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the tuning parameters for the input ports of a board.*

- void [InPort\\_8VSB\\_TuningParams\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [InPort\\_8VSB\\_TuningParams\\_List\\_t](#) Settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the tuning parameters of the given input port(s).*

- void [InPort\\_8VSB\\_Config\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [InPort\\_8VSB\\_Config\\_List\\_t](#) Settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets 8VSB specific configuration of one or more 8VSB input ports.*

- void [InPort\\_8VSB\\_Config\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [InPort\\_8VSB\\_Config\\_List\\_t](#) Settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the 8VSB specific configuration of one or more 8VSB input ports.*

- void [InPort\\_8VSB\\_Statistics\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [InPort\\_8VSB\\_Statistics\\_List\\_t](#) Statistics) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Retrieves the statistics for one or more 8VSB input ports.*

- void [InPort\\_8VSB\\_Statistics\\_ResetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [PortList\\_t](#) Ports) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Resets the 8VSB statistics for the given 8VSB input port.*

- void [InPort\\_DvbS2\\_RxModeSetL](#) (in unsigned short BoardNr, in [InPort\\_DvbS2\\_PortConfig\\_List\\_t](#) ConfigList) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded, LicenseError)

*Configures the reception mode on one or more DVB S2 ports.*

- void [InPort\\_DvbS2\\_RxModeGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [InPort\\_DvbS2\\_PortConfig\\_List\\_t](#) ConfigList) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieves the reception mode of one or all DVB S2 ports.*

- void [InPort\\_DvbS2\\_TunerCfgSetL](#) (in unsigned short BoardNr, in [InPort\\_DvbS2\\_TunerCfg\\_List\\_t](#) Settings) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Configure tuner parameters for one or more DVB S2 ports.*

- void [InPort\\_DvbS2\\_TunerCfgGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [InPort\\_DvbS2\\_TunerCfg\\_List\\_t](#) Settings) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieve the tuner parameters for one or all DVB S2 ports.*

- void [InPort\\_DvbS2\\_LncCfgSetL](#) (in unsigned short BoardNr, in [InPort\\_DvbS2\\_LncCfg\\_List\\_t](#) Settings) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Configure LNC parameters for one or more DVB S2 ports.*

- void [InPort\\_DvbS2\\_LncCfgGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [InPort\\_DvbS2\\_LncCfg\\_List\\_t](#) Settings) raises (TimeOut, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieve the LNC parameters for one or all DVB S2 ports.*

- void [InPort\\_DvbS2\\_StatusGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [InPort\\_DvbS2\\_Status\\_List\\_t](#) StatusList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Retrieve the status of one or all DVB S2 ports.*
- void [InPort\\_DvbS2\\_CountersGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [InPort\\_DvbS2\\_Counters\\_List\\_t](#) - CounterList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Retrieve the counters of one or all DVB S2 ports.*
- void [InPort\\_DvbS2\\_CountersResetL](#) (in unsigned short BoardNr, in [PortList\\_t](#) Ports) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)  
*Reset the counters of one or more DVB S2 ports.*
- [DvbS2\\_RefTS\\_List\\_t](#) [DvbS2\\_LookupTSs](#) (in unsigned short BoardNumber, in [DvbS2\\_LookupTS\\_List\\_t](#) LookupList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the transport stream references for a number of transport streams with given input stream identifier.*
- [DvbS2\\_RefTS\\_List\\_t](#) [DvbS2\\_FindTSs](#) (in unsigned short BoardNumber, in [DvbS2\\_LookupTS\\_List\\_t](#) LookupList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the TS reference for a number of transport streams with given input stream identifier.*
- void [DvbS2\\_IsiGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out boolean bIsMultiStream, out [DvbS2\\_Isi\\_list\\_t](#) IsiList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the list of all detected input stream identifiers on the given DVB-S2 port.*
- [DvbS2\\_InputTS\\_list\\_t](#) [DvbS2\\_InTS\\_GetL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [Ref\\_List\\_t](#) RefList) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the list of DVB-S2 input streams.*
- [Debug\\_DvbS2\\_InputTS\\_List\\_t](#) [DebugDvbS2StreamInGetL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get a list of DVBS2 information of incoming transport streams, including the hardware index.*
- void [InsertDescriptorL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [DescriptorDataList\\_t](#) DescriptorDataList, in boolean Volatile) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Insert descriptors to parts of a table Imported descriptors can be uniquely identified in two ways: either by the tag and the complete descriptor bytestream stream or either by their ID.*
- void [DeleteDescriptorL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [DescriptorDataList\\_t](#) DescriptorDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete Inserted descriptors This function allows deleting descriptors using a ID or using the [TableKeysExt\\_t](#) with masking for location.*
- void [OutTS\\_GetDescriptorL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [TableKeysExt\\_t](#) TableKey, out [DescriptorDataList\\_t](#) DescriptorDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get ALL descriptors of a table This function can be used to see all descriptors that are available for the specified table at a certain TS.*
- void [OutTS\\_SetSpecDescrOrderRules](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [DescriptorRuleSetList\\_t](#) OrderRulesList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set descriptor order rules to parts of a table Full list set and no add or remove, to allow ordering on the GUI.*
- void [OutTS\\_GetSpecDescrOrderRules](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [TableKeysExtList\\_t](#) TableKeyList, out [DescriptorRuleSetList\\_t](#) OrderRulesList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get descriptor order rules Symmetrical with [OutTS\\_SetSpecDescrOrderRules](#).*
- void [OutTS\\_SetSpecDescrRemoveRules](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [DescriptorRuleSetList\\_t](#) RemoveRulesList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set descriptor blocking rules to parts of a table Full list set and no add or remove, to allow ordering on the GUI.*

- void [OutTS\\_GetSpecDescrRemoveRules](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [TableKeysExtList\\_t](#) TableKeyList, out [DescriptorRuleSetList\\_t](#) RemoveRulesList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get descriptor blocking rules Symmetrical with OutTS\_SetSpecDescrRemoveRules.*

- void [Board\\_SetDefDescrOrderRules](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [DescriptorRuleSetList\\_t](#) OrderRules) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set default descriptor order rules.*

- void [Board\\_GetDefDescrOrderRules](#) (in [IPS\\_Ref\\_t](#) PhysRef, out [DescriptorRuleSetList\\_t](#) OrderRules) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get default descriptor order rules.*

- void [Board\\_SetDefDescrRemoveRules](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [DescriptorRuleSetList\\_t](#) RemoveRules) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set default descriptor blocking rules.*

- void [Board\\_GetDefDescrRemoveRules](#) (in [IPS\\_Ref\\_t](#) PhysRef, out [DescriptorRuleSetList\\_t](#) RemoveRules) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get default descriptor blocking rules.*

- void [MergedES\\_InsertDescriptorL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [MergedESDescriptorDataList\\_t](#) DescriptorDataList, in boolean volatile) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Insert descriptors to merged elementary streams Imported descriptors can be uniquely identified in two ways: either by the tag and the complete descriptor bytestream stream or either by their ID.*

- void [MergedES\\_DeleteDescriptorL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [MergedESDescriptorDataList\\_t](#) DescriptorDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete inserted descriptors from Merged ESs This function allows deleting descriptors using a ID.*

- void [OutTs\\_GetMergedES\\_DescriptorL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in unsigned long OutputSID, out [MergedESDescriptorDataList\\_t](#) DescriptorDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get ALL Merged ES descriptors for a specific output service This function can be used to see all descriptors that are available for the specified table at a certain TS.*

- void [InTS\\_CompactCaMode\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [InTS\\_CompactCaMode\\_List\\_t](#) InTS\_CompactCaMode\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set Compact CA descriptor settings for some input TS.*

- void [InTS\\_CompactCaMode\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [InTS\\_CompactCaMode\\_List\\_t](#) InTS\_CompactCaMode\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get Compact CA descriptor settings for some input TS.*

- void [InTS\\_CompactCaMode\\_DelL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete the Compact CA descriptor settings for some input TS (revert to default)*

- void [SetDefault\\_CompactCaMode](#) (in unsigned short BoardNumber, in [eCompactCaMode](#) CompactCaMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set default Compact CA mode settings to be used for all InTS without Compact CA settings.*

- void [GetDefault\\_CompactCaMode](#) (in unsigned short BoardNumber, out [eCompactCaMode](#) CompactCaMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get default Compact CA mode settings to be used for all InTS without Compact CA settings.*

- void [GetSubTable](#) (in [IPS\\_RefTS\\_t](#) TS, in boolean Input, in [TableKeys\\_t](#) Key, in unsigned short Pid, in [eSource](#) Location, out [ByteStream](#) SIData) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Retrieves the PSI table (PAT, CAT and PMT) of a given TS in binary format.*

- void [GetSubTableAsXML](#) (in [IPS\\_RefTS\\_t](#) TS, in boolean Input, in [TableKeys\\_t](#) Key, in unsigned short Pid, in [eSource](#) Location, out [ByteStream](#) SIDataXML, out [eTableStatus](#) Status) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Retrieves the PSI table (PAT, CAT and PMT) of a given TS in XML format.*

- void [GetSubTableBinaryAndXML](#) (in [IPS\\_RefTS\\_t](#) TS, in boolean Input, in [TableKeys\\_t](#) Key, in unsigned short Pid, in [eSource](#) Location, in [eSubTableRequestMode](#) RequestMode, in string Session-ID, out [ByteStream](#) SIDataXML, out [ByteStream](#) SIData, out [eTableStatus](#) Status) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Retrieves the PSI table (PAT, CAT and PMT) of a given TS in XML format.*

- void [GetPSIGSubTables](#) (in unsigned long ONID, in unsigned long TSID, out [PSIGSubTableList\\_t](#) PSIGSubTableList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Retrieves the list of currently active PSIG imported tables.*

- void [GetPSIGSubTableBinary](#) (in [PSIGSubTable\\_t](#) PSIGSubTable, out [ByteStream](#) SIData) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Retrieves a PSIG imported subtable.*

- void [ImportSubTable](#) (in unsigned long OnId, in unsigned long TsId, in boolean bPureImport, in unsigned short Pid, in [ByteStream](#) Data) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Imports an SI sub-table via IIOP.*

- void [GetImportedSubTableL](#) (in unsigned long OnId, in unsigned long TsId, out [IIOP\\_SubTableList\\_t](#) SubTableList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list of SI sub-tables provisioned via IIOP.*

- void [DeleteImportedSubTableL](#) (in [IIOP\\_SubTableList\\_t](#) SubTableList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Deprovision one or more previously provisioned SI sub-tables.*

- [SvcOutPspUpdateRuleList\\_t](#) OutSvc\_GetPspUpdateRuleL (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Retrieves the PspUpdate rules as given via Scte35-extended for a list of services.*

- void [Scte35CommandGetL](#) (in [IPS\\_Service\\_t](#) SvcOut, out [Scte35CommandAndData\\_list\\_t](#) Scte35-CommandAndData\_list) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list of commands received through SCTE-35.*

- void [StationID\\_Get](#) (in unsigned short BoardNr, out unsigned short StationID) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the Station ID.*

- void [StationID\\_Set](#) (in unsigned short BoardNr, in unsigned short StationID) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the Station ID.*

- void [NetworkFeedActiveIndicatorGet](#) (in [IPS\\_Service\\_t](#) SvcOut, out [enNetworkFeedActiveIndicator](#) Network\_active\_indicator) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the status of the Network Feed Active Indicator.*

- void [LocalFeedAvailableIndicatorGet](#) (in [IPS\\_Service\\_t](#) SvcOut, out [enLocalFeedAvailableIndicator](#) Local\_avail\_indicator) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the status of the Local Feed Available Indicator.*

- void [FCS\\_SetScte35\\_CommandExecuteL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [FCS\\_Scte35\\_CommandList\\_t](#) Scte35\_CommandList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the list of customer specific SCTE\_35 commands to be handled by the specified output services - Additionally sets the service that handles the 'splice to local' when a program select is received and the command handling is set to eInputScte35.*

- void [FCS\\_GetScte35\\_CommandExecuteL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList, out [FCS\\_Scte35\\_CommandList\\_t](#) Scte35\_CommandList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the list of customer specific SCTE\_35 commands to be handled by the specified output service.*
- void [SetDefaultOutputTsStandard](#) (in unsigned short Board, in [eTableStandard\\_t](#) eNew) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the default output TS standard.*
- void [GetDefaultOutputTsStandard](#) (in unsigned short Board, out [eTableStandard\\_t](#) eStandard) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the default output TS standard.*
- void [OutputTsStandardSetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTsStandardList\\_t](#) lst) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set Output TS Standard for some OutTS.*
- void [OutputTsStandardGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTsStandardList\\_t](#) lst) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get Output TS Standard for some OutTS.*
- void [SetGpsUtcOffset](#) (in unsigned short Board, in unsigned short Offset) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the GPS-UTC offset.*
- void [GetGpsUtcOffset](#) (in unsigned short Board, out unsigned short Offset) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the GPS-UTC offset.*
- void [OutTS\\_SttTimeZone\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_SttTimeZone\\_List\\_t](#) lst) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set STT time zone for some OutTS.*
- void [OutTS\\_SttTimeZone\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_SttTimeZone\\_List\\_t](#) lst) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get STT time zone for some OutTS.*
- [VCT\\_SvcInput\\_List\\_t](#) [VCT\\_InputData\\_GetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) SidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get VCT data for some input services.*
- [VCT\\_SvcData\\_List\\_t](#) [CVCT\\_OutputData\\_GetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) SidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get CVCT data (settings and input) for some output services.*
- [VCT\\_SvcData\\_List\\_t](#) [TVCT\\_OutputData\\_GetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) SidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get TVCT data (settings and input) for some output services.*
- void [CVCT\\_OutputData\\_SetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [VCT\\_SvcSetting\\_List\\_t](#) lst) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set CVCT settings for some output services.*
- void [TVCT\\_OutputData\\_SetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [VCT\\_SvcSetting\\_List\\_t](#) lst) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set TVCT settings for some output services.*
- void [CVCT\\_ServiceLocationAddedSetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTsServiceLocationAddedList\\_t](#) AddedList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set per TS whether the service location descriptor must be added per CVCT fragment.*
- void [CVCT\\_ServiceLocationAddedGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTsServiceLocationAddedList\\_t](#) AddedList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)



*Get per TS whether the service location descriptor must be added per CVCT fragment.*

- void [TVCT\\_ServiceLocationAddedSetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTsServiceLocationAddedList\\_t](#) AddedList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set per TS whether the service location descriptor must be added per TVCT fragment.*

- void [TVCT\\_ServiceLocationAddedGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTsServiceLocationAddedList\\_t](#) AddedList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get per TS whether the service location descriptor must be added per TVCT fragment.*

- void [SetDefault\\_PsipEitStartPid](#) (in unsigned short Board, in unsigned short StartPid) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default output PSIP-EIT start PID.*

- void [GetDefault\\_PsipEitStartPid](#) (in unsigned short Board, out unsigned short StartPid) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default output PSIP-EIT start PID.*

- void [SetDefault\\_PsipEttStartPid](#) (in unsigned short Board, in unsigned short StartPid) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default output PSIP-ETT start PID.*

- void [GetDefault\\_PsipEttStartPid](#) (in unsigned short Board, out unsigned short StartPid) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default output PSIP-ETT start PID.*

- void [OutTS\\_PsipEitStartPid\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_PsipEitStartPidList\\_t](#) StartPidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set Output TS PSIP-EIT start PID for some OutTS.*

- void [OutTS\\_PsipEitStartPid\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_PsipEitStartPidList\\_t](#) StartPidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get Output TS PSIP-EIT start PID for some OutTS.*

- void [OutTS\\_PsipEttStartPid\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_PsipEttStartPidList\\_t](#) StartPidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set Output TS PSIP-ETT start PID for some OutTS.*

- void [OutTS\\_PsipEttStartPid\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_PsipEttStartPidList\\_t](#) StartPidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get Output TS PSIP-ETT start PID for some OutTS.*

- void [SetDefault\\_PsipEitRegeneration](#) (in unsigned short Board, in unsigned short NbrOfTables) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default number of regenerated PSIP-EIT subtables.*

- void [GetDefault\\_PsipEitRegeneration](#) (in unsigned short Board, out unsigned short NbrOfTables) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default number of regenerated PSIP-EIT subtables.*

- void [SetDefault\\_PsipEttRegeneration](#) (in unsigned short Board, in unsigned short NbrOfTables) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default number of regenerated PSIP-ETT subtables.*

- void [GetDefault\\_PsipEttRegeneration](#) (in unsigned short Board, out unsigned short NbrOfTables) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default number of regenerated PSIP-ETT subtables.*

- void [SetPspEitRegeneration](#) (in [IPS\\_RefTS\\_t](#) RefTs, in [Svc\\_PspEitRegenerationInfoList\\_t](#) PspEitRegenerationInfoList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set Output Service PSIP-EIT Regeneration info.*

- [Svc\\_PsipEitRegenerationInfoList\\_t GetPspEitRegeneration](#) (in [IPS\\_RefTS\\_t](#) RefTs, in [ServiceIdList\\_t](#) SidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get Output Service PSIP-EIT Regeneration info.*

- void [SetPspEttRegeneration](#) (in [IPS\\_RefTS\\_t](#) RefTs, in [Svc\\_PsipEttRegenerationInfoList\\_t](#) PspEttRegenerationInfoList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set Output Service PSIP-ETT Regeneration info.*

- [Svc\\_PsipEttRegenerationInfoList\\_t GetPspEttRegeneration](#) (in [IPS\\_RefTS\\_t](#) RefTs, in [ServiceIdList\\_t](#) SidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get Output Service PSIP-ETT Regeneration info.*

- void [SetDefaultPspEttvPid](#) (in unsigned short Board, in unsigned short Pid) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default output PSIP-ETTV PID.*

- void [GetDefaultPspEttvPid](#) (in unsigned short Board, out unsigned short Pid) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default output PSIP-ETTV PID.*

- void [OutTS\\_PsipEttvPid\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_PsipEttvPid\\_List\\_t](#) PidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set Output TS PSIP-ETTV PID for some OutTS.*

- void [OutTS\\_PsipEttvPid\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_PsipEttvPid\\_List\\_t](#) PidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get Output TS PSIP-ETTV PID for some OutTS.*

- void [ETTV\\_OutputData\\_SetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ETTV\\_ContentSetting\\_List\\_t](#) lst) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set Output Data for PSIP-ETTV.*

- [ETTV\\_ContentData\\_List\\_t ETTV\\_OutputData\\_GetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) - SidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get Output Data for PSIP-ETTV.*

- [TS\\_PspMgtInfoList\\_t OutTS\\_MgtInventory\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) - RefTsList, in unsigned long TableId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get PSIP-MGT TS inventory at the output This will give you a list of all PSIP tables which are available.*

- [TS\\_PspMgtInfoList\\_t InTS\\_MgtInventory\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) - RefTsList, in unsigned long TableId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get PSIP-MGT TS inventory at the input For more information, see OutTS\_MgtInventory\_GetL.*

- [TS\\_BitRateMeasurementList\\_t MM\\_GetInputTS\\_BitRate](#) (in [IPS\\_RefTS\\_t](#) RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the bitrate information of incoming TS.*

- [TS\\_BitRateMeasurementList\\_t MM\\_GetOutputTS\\_BitRate](#) (in [IPS\\_RefTS\\_t](#) RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the bitrate information of outgoing TS.*

- [ServiceBitRateMeasurementList\\_t MM\\_GetInputTS\\_ServiceBitRate](#) (in [IPS\\_RefTS\\_t](#) RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the service bitrate information of incoming services.*

- [ServiceBitRateMeasurementList\\_t MM\\_GetOutputTS\\_ServiceBitRate](#) (in [IPS\\_RefTS\\_t](#) RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the service bitrate information of outgoing services.*

- [TS\\_CompBitRateMeasurementList\\_t MM\\_GetInputTS\\_ComponentBitRate](#) (in [IPS\\_RefTS\\_t](#) RefTS) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the component bitrate information of incoming TS's.*
- [TS\\_CompBitRateMeasurementList\\_t MM\\_GetOutputTS\\_ComponentBitRate](#) (in [IPS\\_RefTS\\_t](#) RefTS) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the component bitrate information of outgoing TS's.*
- [ServiceCompBitRateMeasurementList\\_t MM\\_GetInputSvcComponentBitRate](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) lstServices) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the component bitrate information of incoming services.*
- [ServiceCompBitRateMeasurementList\\_t MM\\_GetOutputSvcComponentBitRate](#) (in [IPS\\_RefTS\\_t](#) - RefTS, in [ServiceIdList\\_t](#) lstServices) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the component bitrate information of outgoing services.*
- void [MM\\_GetTR\\_GroupBitRate](#) (in [IPS\\_Ref\\_t](#) PhysRef, in unsigned long GroupID, out [ServiceBitRateSampleList\\_t](#) InputServiceBitRate, out [ServiceBitRateSampleList\\_t](#) OutputServiceBitRate, out [TRBitRateSample\\_t](#) OutputGroupBitRate) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the bitrate information of transrated services.*
- void [MM\\_ResetTS\\_BitRate](#) (in [IPS\\_RefTS\\_t](#) RefTS, in boolean bInput) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Reset bitrate counters.*
- void [SlateLibrary\\_Add](#) (in unsigned short BoardNr, in string Description, in [ByteStream](#) Clip) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add a slate clip to the clip library.*
- void [SlateLibrary\\_SetDataL](#) (in unsigned short BoardNr, in [SlateDataList\\_t](#) SlateDataL) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the data for a slate clip in the clip library.*
- void [SlateLibrary\\_GetDataL](#) (in unsigned short BoardNr, out [SlateDataList\\_t](#) SlateDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get details about all slate clips in the library.*
- void [SlateLibrary\\_DeleteL](#) (in unsigned short BoardNr, in [ClipID\\_List\\_t](#) SlateID\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Remove a slate clip from the clip library.*
- void [MFP\\_RequestReset](#) (in unsigned short BoardNr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Request to restart the DCM\_MFP application and restore the current state.*
- void [MFPB\\_GetBoardCfg](#) (in unsigned short SlotNbr, out [MFPB\\_BoardCfg\\_t](#) MFPB\_BoardCfg) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get Board Configuration of a Multi format processor (MFP) board.*
- void [MFPB\\_SetBoardCfg](#) (in unsigned short SlotNbr, in [MFPB\\_BoardCfg\\_t](#) MFPB\_BoardCfg) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Apply a new Board Configuration on a Multi format processor (MFP) board.*
- void [MFPB\\_GetMfpResourcesLoad](#) (in unsigned short BoardNr, out [ResourcesLoad\\_List\\_t](#) ResourcesLoad\_List) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get measured load of MFP resources.*
- void [MFPB\\_GetEngineUnitCfg](#) (in unsigned short BoardNr, in [RefProcessorEngineUnitList\\_t](#) RefProcessorEngineUnitList, out [MFPB\\_EngineUnitCfgList\\_t](#) EngineUnitCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)



*Get the current configuration of the Multi format processor (MFP) engine unit.*

- void [MFPB\\_SetEngineUnitCfg](#) (in unsigned short BoardNr, in [MFPB\\_EngineUnitCfgList\\_t](#) EngineUnitCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Apply a new processor engine unit configuration on a Multi format processor (MFP) board.*

- void [MFPB\\_GetMPEG2FramePicturesCfg](#) (in unsigned short BoardNr, out [MFPB\\_MPEG2FramePicturesCfgList\\_t](#) MPEG2FramePicturesCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the current configuration of MPEG-2 Frame Pictures engine unit.*

- void [MFPB\\_SetMPEG2FramePicturesCfg](#) (in unsigned short BoardNr, in [MFPB\\_MPEG2FramePicturesCfgList\\_t](#) MPEG2FramePicturesCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Apply a new configuration of MPEG-2 Frame Pictures on a Multi format processor (MFP) engine unit.*

- void [MFPB\\_ResetEngine](#) (in unsigned short SlotNr, in unsigned short EngineNr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Request to reset a DCM\_MFP engine.*

- void [MFPB\\_ServiceCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_ServiceCfgList\\_t](#) ServiceCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the Multi format processor (MFP) service settings.*

- void [MFPB\\_ServiceCfgSetL](#) (in unsigned short BoardNr, in [MFPB\\_ServiceCfgList\\_t](#) ServiceCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Add or update the Multi format processor (MFP) service settings.*

- void [MFPB\\_ServiceComponentsGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_ServiceComponentsList\\_t](#) ServiceComponentsList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the list of components which can be processed.*

- void [MFPB\\_VideoInformationGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_VideoServiceInformationList\\_t](#) VideoInfoList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get video status information.*

- void [MFPB\\_VideoDecodeCfgSetL](#) (in unsigned short BoardNr, in [MFPB\\_VideoDecodeCfgList\\_t](#) VideoDecodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the video decoding settings.*

- void [MFPB\\_VideoDecodeCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_VideoDecodeCfgList\\_t](#) VideoDecodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the video decoding settings.*

- void [MFPB\\_VideoDecodeCfgDeleteL](#) (in unsigned short BoardNr, in [MFPB\\_ServiceTrackingID\\_List\\_t](#) ToDelete) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove the video decoding settings.*

- void [MFPB\\_VideoEncodeCfgSetL](#) (in unsigned short BoardNr, in [MFPB\\_VideoEncodeCfgList\\_t](#) VideoEncodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the video encoding settings.*

- void [MFPB\\_VideoEncodeCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_VideoEncodeCfgList\\_t](#) VideoEncodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the video encoding settings.*

- void [MFPB\\_VideoEncodeCfgV2SetL](#) (in unsigned short BoardNr, in [MFPB\\_VideoEncodeCfgV2List\\_t](#) VideoEncodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the video encoding settings.*

- void [MFPB\\_VideoEncodeCfgV2GetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_VideoEncodeCfgV2List\\_t](#) VideoEncodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the video encoding settings.*

- void [MFPB\\_VideoEncodeCfgDeleteL](#) (in unsigned short BoardNr, in [MFPB\\_ServiceTrackingID\\_List\\_t](#) ToDelete) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove the video encoding settings and related closed caption settings.*

- void [MFPB\\_MultiResVideoEncodeCfgSetL](#) (in [IPS\\_RefSvc\\_t](#) MainService, in [MFPB\\_MultiResVideoEncodeCfgList\\_t](#) MultiResVideoEncodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Create and or set the video encoding settings for one or more multi resolution services belonging to one particular main service.*

- void [MFPB\\_MultiResVideoEncodeCfgGetL](#) (in [IPS\\_RefSvc\\_t](#) MainService, out [MFPB\\_MultiResVideoEncodeCfgList\\_t](#) MultiResVideoEncodeCfgList) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the video encoding settings for the multi resolution services belonging to one particular main service.*

- void [MFPB\\_MultiResVideoEncodeDeleteL](#) (in [IPS\\_RefSvc\\_t](#) MainService, in [IPS\\_RefSvc\\_List\\_t](#) RefSvcList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete one or more multi resolution services on a MFP board from a particular main service.*

- void [MFPB\\_SetMultiResABR](#) (in unsigned short SlotNbr, in [MFPB\\_MultiResABR\\_List\\_t](#) MultiResABR\_List) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the ABR settings for all multi resolution services belonging to one particular main service.*

- void [MFPB\\_GetMultiResABR](#) (in unsigned short SlotNbr, in [IPS\\_RefSvc\\_List\\_t](#) RefSvcList, out [MFPB\\_MultiResABR\\_List\\_t](#) MultiResABR\_List) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the ABR settings for all multi resolution services belonging to one particular main service.*

- void [MFPB\\_AudioInformationGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_AudioServiceInformationList\\_t](#) AudioInfoList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get audio status information.*

- void [MFPB\\_AudioDecodeCfgSetL](#) (in unsigned short BoardNr, in [MFPB\\_AudioDecodeCfgList\\_t](#) AudioDecodeCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

*Set the Audio decoding settings.*

- void [MFPB\\_AudioDecodeCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_AudioDecodeCfgList\\_t](#) AudioDecodeCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the Audio decoding settings.*

- void [MFPB\\_AudioDecodeCfgDeleteL](#) (in unsigned short BoardNr, in [MFPB\\_ServiceTrackingID\\_List\\_t](#) ToDelete) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Remove the Audio decoding settings.*

- void [MFPB\\_AudioEncodeCfgSetL](#) (in unsigned short BoardNr, in [MFPB\\_AudioEncodeCfgList\\_t](#) AudioEncodeCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)  
*Set the Audio encoding settings.*
- void [MFPB\\_AudioEncodeCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_AudioEncodeCfgList\\_t](#) AudioEncodeCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- void [MFPB\\_AudioEncodeCfgDeleteL](#) (in unsigned short BoardNr, in [MFPB\\_ServiceTrackingID\\_List\\_t](#) ToDelete) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Remove the Audio encoding settings and all settings related to it (AAC/Dolby audio settings)*

- void [MFPB\\_MPEGL2AudioCfgSetL](#) (in unsigned short BoardNr, in [MFPB\\_MPEGL2AudioCfgList\\_t](#) MPEGL2AudioCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)  
*Set the MPEG1-L2 audio processing settings.*
- void [MFPB\\_MPEGL2AudioCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_MPEGL2AudioCfgList\\_t](#) MPEGL2AudioCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- void [MFPB\\_AACAudioCfgSetL](#) (in unsigned short BoardNr, in [MFPB\\_AacAudioCfgList\\_t](#) AacAudioCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)  
*Set the AAC audio processing settings.*

- void [MFPB\\_AACAudioCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_AacAudioCfgList\\_t](#) AacAudioCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the AAC audio processing settings.*

- void [MFPB\\_DolbyAudioCfgSetL](#) (in unsigned short BoardNr, in [MFPB\\_DolbyAudioCfgList\\_t](#) DolbyAudioCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

*Set the dolby audio processing settings.*

- void [MFPB\\_DolbyAudioCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_DolbyAudioCfgList\\_t](#) DolbyAudioCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the dolby audio processing settings.*

- void [MFPB\\_DolbyAudioCfgSetL\\_V2](#) (in unsigned short BoardNr, in [MFPB\\_DolbyAudioCfgList\\_V2\\_t](#) DolbyAudioCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

*Set the dolby audio processing settings.*

- void [MFPB\\_DolbyAudioCfgGetL\\_V2](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_DolbyAudioCfgList\\_V2\\_t](#) DolbyAudioCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the dolby audio processing settings.*

- void [MFPB\\_AudioDecodeExtraMPEGL2SetL](#) (in unsigned short BoardNr, in [MFPB\\_AudioDecodeExtraMPEGL2CfgList\\_t](#) AudioDecodeExtraMPEGL2CfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Update extra MPEG1-L2 audio decoding options.*

- void [MFPB\\_AudioDecodeExtraMPEGL2GetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_AudioDecodeExtraMPEGL2CfgList\\_t](#) AudioDecodeExtraMPEGL2CfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get extra MPEG1-L2 audio decoding options.*

- void [MFPB\\_AudioDecodeExtraAACSetL](#) (in unsigned short BoardNr, in [AudioDecodeExtraAACCfgList\\_t](#) AudioDecodeExtraAACCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Update extra AAC audio decoding settings.*

- void [MFPB\\_AudioDecodeExtraAACGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [AudioDecodeExtraAACCfgList\\_t](#) AudioDecodeExtraAACCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get extra AAC audio decoding settings.*

- void [MFPB\\_AudioDecodeExtraDolbySetL](#) (in unsigned short BoardNr, in [MFPB\\_AudioDecodeExtraDolbyCfgList\\_t](#) AudioDecodeExtraDolbyCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Update extra Dolby audio decoding settings.*

- void [MFPB\\_AudioDecodeExtraDolbyGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_AudioDecodeExtraDolbyCfgList\\_t](#) AudioDecodeExtraDolbyCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get extra Dolby audio decoding settings.*

- void [MFPB\\_CaptionServiceCfgSetL](#) (in unsigned short BoardNr, in [MFPB\\_Svc\\_CaptionInfoList\\_t](#) Svc\_CaptionInfoList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Set the MFP closed caption descriptor settings.*

- void [MFPB\\_CaptionServiceCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_Svc\\_CaptionInfoList\\_t](#) Svc\_CaptionInfoList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the MFP closed caption descriptor settings.*

- void [MFPB\\_DD\\_MetaDecStatusGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_ServiceDD\\_MetaDecStatusList\\_t](#) StatusList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get Dolby meta data status on the decoder.*

- void [MFPB\\_MetaDataCfgSetL](#) (in unsigned short BoardNr, in [MFPB\\_ServiceMetaDataCfgList\\_t](#) MetaDataCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported, LicenseError)

*Set the audio meta data configuration.*

- void [MFPB\\_MetaDataCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [MFPB\\_ServiceMetaDataCfgList\\_t](#) MetaDataCfgList) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the audio meta data configuration.*

- void [TC\\_GetBoardCfg](#) (in unsigned short BoardNr, out [TC\\_BoardCfg\\_t](#) BoardCfg) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the current configuration of the transcoder.*

- void [TC\\_GetBoardCfg\\_V2](#) (in unsigned short BoardNr, out [TC\\_BoardCfg\\_V2\\_t](#) BoardCfg) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the current configuration of the transcoder.*

- void [TC\\_GetPossibleBoardCfgL](#) (in unsigned short BoardNr, out [TC\\_PossibleBoardCfgList\\_t](#) BoardCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of all board configurations whether they can be applied or not.*

- void [TC\\_GetPossibleBoardCfgL\\_V2](#) (in unsigned short BoardNr, out [TC\\_PossibleBoardCfgList\\_V2\\_t](#) BoardCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of all board configurations whether they can be applied or not.*

- void [TC\\_SetBoardCfg](#) (in unsigned short SlotNbr, in [TC\\_BoardCfg\\_t](#) BoardCfg) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Apply a new Board Configuration on a Transcoder board.*

- void [TC\\_SetBoardCfg\\_V2](#) (in unsigned short SlotNbr, in [TC\\_BoardCfg\\_V2\\_t](#) BoardCfg) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Apply a new Board Configuration on a Transcoder board.*

- void [TC\\_ServiceComponentsGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_ServiceComponentsList\\_t](#) ServiceComponentsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list of components which can be transcoded.*

- void [TC\\_ServiceCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_ServiceCfgList\\_t](#) ServiceCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the transcoder service settings.*

- void [TC\\_ServiceCfgSetL](#) (in unsigned short BoardNr, in [TC\\_ServiceCfgList\\_t](#) ServiceCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update the transcoder service settings.*

- void [TC\\_VideoCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_VideoCfgList\\_t](#) VideoCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the video transcoding settings.*

- void [TC\\_VideoCfgSetL](#) (in unsigned short BoardNr, in [TC\\_VideoCfgList\\_t](#) VideoCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the video transcoding settings.*

- void [TC\\_VideoCfgDeleteL](#) (in unsigned short BoardNr, in [TC\\_ServiceTrackingID\\_List\\_t](#) ToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove video transcoding settings.*

- void [TC\\_PipCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_PipCfgList\\_t](#) PipCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the PIP transcoding settings.*

- void [TC\\_PipCfgSetL](#) (in unsigned short BoardNr, in [TC\\_PipCfgList\\_t](#) PipCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the PIP transcoding settings.*

- void [TC\\_PipCfgDeleteL](#) (in unsigned short BoardNr, in [TC\\_ServiceTrackingID\\_List\\_t](#) ToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove PIP transcoding settings.*

- void [TC\\_VideoInformationGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_VideoServiceInformationList\\_t](#) VideoInfoList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get video status information.*

- void [TC\\_AudioCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_AudioCfgList\\_t](#) AudioCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the audio transcoding settings.*

- void [TC\\_AudioCfgSetL](#) (in unsigned short BoardNr, in [TC\\_AudioCfgList\\_t](#) AudioCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the audio transcoding settings.*

- void [TC\\_AudioCfgDeleteL](#) (in unsigned short BoardNr, in [TC\\_ServiceTrackingID\\_List\\_t](#) ToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)



*Remove audio transcoding settings.*

- void [TC\\_AudioInformationGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_AudioServiceInformationList\\_t](#) AudioInfoList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get audio status information.*

- [ServiceBitRateMeasurementList\\_t](#) [MM\\_GetTC\\_ServiceBitRate](#) (in [IPS\\_RefTS\\_t](#) RefTS) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the service bitrate information of transcoded services.*

- [ServiceCompBitRateMeasurementList\\_t](#) [MM\\_GetTC\\_SvcComponentBitRate](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) IstServices) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the component bitrate information of transcoded services.*

- void [TC\\_CaptionServiceCfgSetL](#) (in unsigned short BoardNr, in [TC\\_Svc\\_CaptionInfoList\\_t](#) Svc\_CaptionInfoList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the transcoder caption service settings.*

- void [TC\\_CaptionServiceCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_Svc\\_CaptionInfoList\\_t](#) Svc\_CaptionInfoList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the transcoder caption service settings.*

- void [TC\\_VideoDecodeCfgSetL](#) (in unsigned short BoardNr, in [TC\\_VideoDecodeCfgList\\_t](#) VideoDecodeCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the video decoding settings.*

- void [TC\\_VideoDecodeCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_VideoDecodeCfgList\\_t](#) VideoDecodeCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the video decoding settings.*

- void [TC\\_VideoDecodeCfgDeleteL](#) (in unsigned short BoardNr, in [TC\\_ServiceTrackingID\\_List\\_t](#) -ToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove the video decoding settings.*

- void [TC\\_VideoEncodeCfgSetL](#) (in unsigned short BoardNr, in [TC\\_VideoEncodeCfgList\\_t](#) VideoEncodeCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the video encoding settings.*

- void [TC\\_VideoEncodeCfgGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_VideoEncodeCfgList\\_t](#) VideoEncodeCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the video encoding settings.*

- void [TC\\_VideoEncodeCfgDeleteL](#) (in unsigned short BoardNr, in [TC\\_ServiceTrackingID\\_List\\_t](#) -ToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove the video encoding settings.*

- void [LogoLibrary\\_Add](#) (in [LogoCfg\\_t](#) LogoCfg, in string FileFormat, in [ByteStream](#) Logo) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add a logo to the logo library.*

- void [LogoLibrary\\_ExportLogo](#) (in [LogoCfgID\\_t](#) LogoCfgID, in string FileFormat, out [ByteStream](#) Logo) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Export (=download) a logo from the logo library.*

- void [LogoLibrary\\_LogoCfgGetL](#) (in [LogoCfgID\\_List\\_t](#) LogoCfgID\_List, out [LogoCfgList\\_t](#) LogoCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get information about logos in the logo library.*

- void [LogoLibrary\\_LogoCfgSetL](#) (in [LogoCfgList\\_t](#) LogoCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update about certain logos in the logo library.*

- void [LogoLibrary\\_LogoCfgDeleteL](#) (in [LogoCfgID\\_List\\_t](#) LogoCfgID\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove one or more logos from the logo library.*

- void [LogoLibrary\\_LogoCfgFileNrGetL](#) (in [LogoCfgID\\_List\\_t](#) LogoCfgID\_List, out [LogoCfgFileNumberList\\_t](#) LogoCfgFileNumbers) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the mapping between LogoCfgID and LogoFileName.*

- void [LogoLibrary\\_LogoCfgFileNrSetL](#) (in [LogoCfgFileNumberList\\_t](#) LogoCfgFileNumbers) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the mapping between LogoCfgID and LogoFileName.*

- void [LogoLibrary\\_SetMaxLogoSize](#) (in [MaximumLogoSize\\_t](#) MaxLogoSize) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set device-wide maximum logo size.*

- void [LogoLibrary\\_GetMaxLogoSize](#) (out [MaximumLogoSize\\_t](#) MaxLogoSize) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the device-wide maximum logo size.*

- void [FontLibrary\\_Add](#) (in [FontCfg\\_t](#) FontCfg, in string FileFormat, in [ByteStream](#) Font) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add a Font to the Font library.*

- void [FontLibrary\\_FontCfgGetL](#) (in [FontCfgID\\_List\\_t](#) FontCfgID\_List, out [FontCfgList\\_t](#) FontCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get information about fonts in the font library.*

- void [FontLibrary\\_FontCfgSetL](#) (in [FontCfgList\\_t](#) FontCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update certain Fonts in the Font library.*

- void [FontLibrary\\_FontCfgDeleteL](#) (in [FontCfgID\\_List\\_t](#) FontCfgID\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Remove one or more Fonts from the Font library.*

- void [BannerLibrary\\_Add](#) (in [BannerCfg\\_t](#) BannerCfg) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add a Banner to the Banner library.*

- void [BannerLibrary\\_V2\\_Add](#) (in [BannerCfg\\_V2\\_t](#) BannerCfg) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add a Banner to the Banner library.*

- void [BannerLibrary\\_BannerCfgGetL](#) (in [BannerCfgID\\_List\\_t](#) BannerCfgID\_List, out [BannerCfgList\\_t](#) BannerCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get information about Banners in the Banner library.*

- void [BannerLibrary\\_BannerCfg\\_V2\\_GetL](#) (in [BannerCfgID\\_List\\_t](#) BannerCfgID\_List, out [BannerCfg\\_V2\\_List\\_t](#) BannerCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get information about Banners in the Banner library.*

- void [BannerLibrary\\_BannerCfgSetL](#) (in [BannerCfgList\\_t](#) BannerCfgList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Update certain Banners in the Banner library.*

- void [BannerLibrary\\_BannerCfg\\_V2\\_SetL](#) (in [BannerCfg\\_V2\\_List\\_t](#) BannerCfgList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Update certain Banners in the Banner library.*
- void [BannerLibrary\\_BannerCfgDeleteL](#) (in [BannerCfgID\\_List\\_t](#) BannerCfgID\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Remove one or more Banners from the Banner library.*
- void [TC\\_GetBoardMode](#) (in unsigned short BoardNr, out [enTC\\_BoardMode\\_t](#) enBoardMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the processor board mode.*
- void [TC\\_SetBoardMode](#) (in unsigned short BoardNr, in [enTC\\_BoardMode\\_t](#) enBoardMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the processor board mode.*
- void [TC\\_LogoCfgSetL](#) (in unsigned short BoardNr, in [TC\\_LogoCfgList\\_t](#) LogoCfgList) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Update the logo settings on the logo processing board.*
- void [TC\\_LogoKeyerGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) SvcList, out [TC\\_LogoKeyerID\\_List\\_t](#) LogoKeyerIDs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the current logo ID to keyer ID mapping.*
- void [TC\\_LogoKeyerUpdateL](#) (in unsigned short BoardNr, in [TC\\_LogoKeyerID\\_List\\_t](#) LogoKeyerIDs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Update the LogoID <-> Keyer ID mapping .*
- void [TC\\_LogoAddL](#) (in unsigned short BoardNr, in [TC\\_ServiceLogoCfgID\\_List\\_t](#) LogoToAdd) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Add one or more logo configurations to one or more services.*
- void [TC\\_LogoDeleteL](#) (in unsigned short BoardNr, in [TC\\_ServiceLogoCfgID\\_List\\_t](#) LogosToDelete) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Remove one or more logo configurations from one or more services.*
- void [TC\\_LogoGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_LogoList\\_t](#) LogoList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get logo transcoding settings.*
- void [TC\\_LogoDisplayL](#) (in unsigned short BoardNr, in [TC\\_ServiceLogoDisplayList\\_t](#) LogoDisplayList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Update the display status of logos.*
- void [TC\\_BannerSettingsGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_BannerSettingsList\\_t](#) BannerSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the banner configuration.*
- void [TC\\_BannerSettingsSetL](#) (in unsigned short BoardNr, in [TC\\_BannerSettingsList\\_t](#) BannerSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Update the banner configuration.*
- void [TC\\_StartBanner](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, in [TC\\_Banner\\_t](#) Banner) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Start a banner.*
- void [TC\\_StartBanner\\_V2](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, in [TC\\_Banner\\_V2\\_t](#) Banner) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Start a banner.*



- void [TC\\_BannerStatusGetL](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList, out [TC\\_ServiceBannerStatusList\\_t](#) Banners) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Retrieve the list of banner statuses.*

- void [StartEAS](#) (in string SAME, in string AlertText, in unsigned long BannerTimeout) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Start an EAS message.*

- void [StartEAS\\_V2](#) (in string SAME, in string AlertText, in unsigned long BannerTimeout, in [en-BannerTextEncoding\\_t](#) AlertTextEncoding) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Start an EAS message.*

- void [StartEAS\\_V3](#) (in string SAME, in string AlertText, in unsigned long BannerTimeout, in [en-BannerTextEncoding\\_t](#) AlertTextEncoding, in unsigned short TextLoopCount) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Start an EAS message.*

- void [TC\\_StopBanner](#) (in unsigned short BoardNr, in [IPS\\_Service\\_List\\_t](#) ServiceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Stop any banner in the service This will stop any active banner (and EAS) in all of the listed services.*

- void [StopBanners](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Stop all banners on all services This will stop any active banner (and EAS) on any logo insertion board.*

- unsigned short [TC\\_GetDSP\\_Number](#) (in unsigned short SlotNbr, in [IPS\\_RefPid\\_t](#) RefPid) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the DSP currently processing a certain PID.*

- void [TR\\_SetGuaranteedSplicesEnabled](#) (in unsigned short BoardNr, in boolean bEnabled) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Enable/disable denying of splice\_request based on available resources.*

- void [TR\\_GetGuaranteedSplicesEnabled](#) (in unsigned short BoardNr, out boolean bEnabled) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Query whether denying of splice\_request based on available resources is enabled/disabled.*

- void [TR\\_ResetMaximumReachedLoad](#) (in unsigned short BoardNr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Resets the maximum reached load on a TR board.*

- void [TR\\_SetResourceCountingSettings](#) (in unsigned short BoardNr, in [TR\\_ResourceCountingSettings\\_t](#) TR\_ResourceCountingSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set settings needed to calculate different loads on TR board.*

- void [TR\\_GetResourceCountingSettings](#) (in unsigned short BoardNr, out [TR\\_ResourceCountingSettings\\_t](#) TR\_ResourceCountingSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get settings needed to calculate different loads on TR board.*

- void [TR\\_GetResourceCountingLoads](#) (in unsigned short BoardNr, out [TR\\_ResourceCountingLoads\\_t](#) TR\_ResourceCountingLoads) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get calculated loads on TR board.*

- void [TR\\_SetStopStreamingReducesLoad](#) (in unsigned short BoardNr, in boolean bStopStreaming-ReducesLoad) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set flag to take/don't take load into account depending on streaming state of service.*

- void [TR\\_GetStopStreamingReducesLoad](#) (in unsigned short BoardNr, out boolean bStopStreaming-ReducesLoad) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get flag to take/don't take load into account depending on streaming state of service.*

- void [TR\\_SetBoardFunction](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [enTR\\_Function\\_t](#) enTR\_Function) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the transrater board function.*

- void [TR\\_GetBoardFunction](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [enTR\\_Function\\_t](#) enTR\_Function) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the transrater board function.*

- void [TR\\_SetBoardAlgorithm](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [eTR\\_Algorithm](#) TR\_Algorithm) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the transrating algorithm.*

- void [TR\\_GetBoardAlgorithm](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [eTR\\_Algorithm](#) TR\_Algorithm) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the transrating algorithm.*

- void [TR\\_SetBoardDelay](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [eTR\\_Delay](#) TR\_Delay) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the transrating board delay.*

- void [TR\\_GetBoardDelay](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [eTR\\_Delay](#) TR\_Delay) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the transrating board delay.*

- void [TR\\_SetBoardDelayExtend](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_DelayMode\\_t](#) TR\_Delay) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the transrating board delay.*

- void [TR\\_SetBoardDelayExtend\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_DelayMode\\_V2\\_t](#) TR\_Delay) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Set the transrating board delay.*

- void [TR\\_GetBoardDelayExtend](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [TR\\_DelayMode\\_t](#) TR\_Delay) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the transrating board delay.*

- void [TR\\_GetBoardDelayExtend\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [TR\\_DelayMode\\_V2\\_t](#) TR\_Delay) raises (TimeOut, OpNotAllowed, OpNotSupported)

*Get the transrating board delay.*

- [TR\\_GroupID\\_List\\_t](#) [TR\\_GroupAddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupSettings\\_List\\_t](#) GroupList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Request to add a list of new transrater groups.*

- [TR\\_GroupSettings\\_List\\_t](#) [TR\\_GroupGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupID\\_List\\_t](#) GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the list of transrater group IDs.*

- [TR\\_GroupID\\_List\\_t](#) [TR\\_GroupChangeL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupSettings\\_List\\_t](#) GroupList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Change the settings of (multiple) transrater group(s).*

- [TR\\_GroupID\\_List\\_t](#) [TR\\_GroupDeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupID\\_List\\_t](#) GroupList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete transrater group(s).*

- [TR\\_TSAdd\\_List\\_t](#) [TR\\_TS\\_AddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_TSAdd\\_List\\_t](#) GroupTSList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add complete mux output transport stream(s) to transrater group(s).*

- [TR\\_TSAdd\\_List\\_t](#) [TR\\_TS\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupID\\_List\\_t](#) GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets a list of TSs that are completely part of the transrater group(s).*

- [TR\\_TSAdd\\_List\\_t TR\\_TS\\_DeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_TSAdd\\_List\\_t](#) GroupTSList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete TS(s) from transrater group(s).*
- [TR\\_GroupServiceSettings\\_List\\_t TR\\_ServiceAddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupServiceSettings\\_List\\_t](#) GroupServiceSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Add a sequence of service(s) to transrater group(s).*
- [TR\\_GroupServiceSettings\\_List\\_t TR\\_ServiceGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupID\\_List\\_t](#) GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets a sequence of service(s) that are added to transrater group(s).*
- [TR\\_GroupServiceSettings\\_List\\_t TR\\_ServiceChangeL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupServiceSettings\\_List\\_t](#) GroupServiceSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Change a sequence of service setting(s) that were previously added to transrater group(s).*
- [TR\\_GroupServiceSettings\\_List\\_t TR\\_ServiceDeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupServiceSettings\\_List\\_t](#) GroupServiceSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete a sequence of service setting(s) that were previously added to transrater group(s).*
- [TR\\_BitRateMeasurementList\\_t MM\\_GetTR\\_BitRate](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [TR\\_GroupID\\_List\\_t](#) GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the bitrate information of transrater groups.*
- [void TR\\_GetBoardPcrContinuity](#) (in [IPS\\_Ref\\_t](#) RefPhys, out boolean PcrContinuity) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the PCR continuity setting.*
- [void TR\\_SetBoardPcrContinuity](#) (in [IPS\\_Ref\\_t](#) RefPhys, in boolean PcrContinuity) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the PCR continuity setting.*
- [void TR\\_GetSpliceWindowAccuracy](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [enTR\\_SpliceWindowAccuracy](#) - Accuracy) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the splice window accuracy setting.*
- [void TR\\_SetSpliceWindowAccuracy](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [enTR\\_SpliceWindowAccuracy](#) - Accuracy) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the splice window accuracy setting.*
- [TR\\_GroupServiceSettings\\_V2\\_List\\_t TR\\_ServiceAddL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupServiceSettings\\_V2\\_List\\_t](#) GroupServiceSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Add a sequence of service(s) to transrater group(s).*
- [TR\\_GroupServiceSettings\\_V2\\_List\\_t TR\\_ServiceGetL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupID\\_List\\_t](#) GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets a sequence of service(s) that are added to transrater group(s).*
- [TR\\_GroupServiceSettings\\_V2\\_List\\_t TR\\_ServiceChangeL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupServiceSettings\\_V2\\_List\\_t](#) GroupServiceSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Change a sequence of service setting(s) that were previously added to transrater group(s).*
- [TR\\_GroupServiceSettings\\_V2\\_List\\_t TR\\_ServiceDeleteL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_GroupServiceSettings\\_V2\\_List\\_t](#) GroupServiceSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete a sequence of service setting(s) that were previously added to transrater group(s).*
- [void TR\\_RestartBoard](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded)

*The transrater board will be restarted.*

- void [RMX\\_SetRealignmentBoardMode](#) (in unsigned short BoardNr, in boolean Enable) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Enable/disable Realignment Mode on a specific board.*

- void [RMX\\_GetRealignmentBoardMode](#) (in unsigned short BoardNr, out boolean IsEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Query the Realignment Mode of a specific board.*

- void [RMX\\_GroupCreate](#) (in unsigned short BoardNr, in [RMX\\_GroupSettings\\_List\\_t](#) GroupSettingsList, out [RMX\\_GroupID\\_List\\_t](#) CreatedGroupIDs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Create a set of Realignment Mux groups.*

- void [RMX\\_GroupGet](#) (in [IPS\\_RefTS\\_t](#) Location, in [RMX\\_GroupID\\_List\\_t](#) GroupIDList, out [RMX\\_GroupSettings\\_List\\_t](#) GroupSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of Realignment Mux group settings.*

- void [RMX\\_GroupChange](#) (in unsigned short BoardNr, in [RMX\\_GroupSettings\\_List\\_t](#) GroupList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Change the settings of one or more Realignment Mux groups.*

- void [RMX\\_GroupDelete](#) (in unsigned short BoardNr, in [RMX\\_GroupID\\_List\\_t](#) GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete one or more Realignment Mux groups.*

- void [RMX\\_ServiceAdd](#) (in unsigned short BoardNr, in [RMX\\_GroupSvcs\\_List\\_t](#) GroupServicesList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Add services to a Realignment Mux group.*

- void [RMX\\_ServiceGet](#) (in unsigned short BoardNr, in [RMX\\_GroupID\\_List\\_t](#) GroupIDList, out [RMX\\_GroupSvcs\\_List\\_t](#) GroupServicesList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of services that were added explicitly.*

- void [RMX\\_ServiceDelete](#) (in unsigned short BoardNr, in [RMX\\_GroupSvcs\\_List\\_t](#) GroupServicesList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete a subset of the services that were previously added explicitly to one or more Realignment Mux groups.*

- void [SMX\\_MFP\\_GroupCreate](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_GroupSettings\\_List\\_t](#) GroupSettingsList, out [SMX\\_MFP\\_GroupID\\_List\\_t](#) CreatedGroupIDs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Request to create a list of statmux groups.*

- void [SMX\\_MFP\\_GroupGet](#) (in [IPS\\_RefTS\\_t](#) RefTs, in [SMX\\_MFP\\_GroupID\\_List\\_t](#) GroupIDList, out [SMX\\_MFP\\_GroupSettings\\_List\\_t](#) GroupSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the list of statmux group settings.*

- void [SMX\\_MFP\\_GroupChange](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_GroupSettings\\_List\\_t](#) GroupList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Change the settings of statmux group(s).*

- void [SMX\\_MFP\\_GroupDelete](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_GroupID\\_List\\_t](#) GroupIDList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete statmux group(s).*

- void [SMX\\_MFP\\_TSAdd](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_Group\\_TSSettings\\_List\\_t](#) - GroupTSLList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Add complete mux output transport stream(s) to statmux group(s).*

- void [SMX\\_MFP\\_TSGet](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_GroupID\\_List\\_t](#) GroupIDList, out [SMX\\_MFP\\_Group\\_TSSettings\\_List\\_t](#) GroupTSList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets a list of TSs settings that are part of the statmux group(s).*

- void [SMX\\_MFP\\_TSChange](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_Group\\_TSSettings\\_List\\_t](#) GroupTSList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Change a list of TSs settings that are part of the statmux group(s).*

- void [SMX\\_MFP\\_TSDelete](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_Group\\_TS\\_List\\_t](#) GroupTSList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete TS(s) from statmux group(s).*

- void [SMX\\_MFP\\_SvcSettingGet](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_GroupID\\_List\\_t](#) GroupIDList, out [SMX\\_MFP\\_Group\\_SvcSettings\\_List\\_t](#) GroupSvcList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Retrieve the Service settings from a group.*

- void [SMX\\_MFP\\_SvcSettingGet\\_V2](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_GroupID\\_List\\_t](#) GroupIDList, out [SMX\\_MFP\\_Group\\_SvcSettings\\_V2\\_List\\_t](#) GroupSvcList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Retrieve the Service settings from a group.*

- void [SMX\\_MFP\\_SvcSettingChange](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_Group\\_SvcSettings\\_List\\_t](#) GroupSvcList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Update the Service settings from a group.*

- void [SMX\\_MFP\\_SvcSettingChange\\_V2](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_Group\\_SvcSettings\\_V2\\_List\\_t](#) GroupSvcList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Update the Service settings from a group.*

- void [SMX\\_MFP\\_ServiceAdd](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_Group\\_Svc\\_List\\_t](#) GroupServiceList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Add services to a SingleTS\_SelectedSvc statmux group.*

- void [SMX\\_MFP\\_ServiceGet](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_GroupID\\_List\\_t](#) GroupIDList, out [SMX\\_MFP\\_Group\\_Svc\\_List\\_t](#) GroupServiceList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the list of services added explicitly (eSMX\_MFP\_SingleTS\_SelectedSvc group)*

- void [SMX\\_MFP\\_ServiceDelete](#) (in unsigned short BoardNr, in [SMX\\_MFP\\_Group\\_Svc\\_List\\_t](#) GroupServiceList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete a sequence of service that were previously added to statmux group(s).*

- void [IPS\\_OutServiceGetSyncL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutSidList, out [IPS\\_OutServiceSyncList\\_t](#) SyncList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the PID sync settings.*

- void [IPS\\_OutServiceGetSyncL\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutSidList, out [IPS\\_OutServiceSyncList\\_V2\\_t](#) SyncList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the PID sync settings.*

- void [IPS\\_OutServiceSetSyncL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [IPS\\_OutServiceSyncList\\_t](#) SyncList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the PID sync settings.*

- void [IPS\\_OutServiceSetSyncL\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [IPS\\_OutServiceSyncList\\_V2\\_t](#) SyncList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set the PID sync settings.*

- void [TR\\_SlateServiceSetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [SlateServiceList\\_t](#) SlateServiceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Enable slate insertion.*

- void [TR\\_SlateServiceGetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList, out [SlateServiceList\\_t](#) SlateServiceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of all slate services.*

- void [TR\\_SlateServiceDeleteL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (-Timeout, OpNotAllowed, OpNotSupported)

*Disable slate insertion.*

- void [TR\\_AudioLevelGetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList, out [TR\\_ServiceAudioLevelList\\_t](#) AudioLevels) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of all audio leveling settings.*

- void [TR\\_AudioLevelSetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [TR\\_ServiceAudioLevelList\\_t](#) AudioLevels) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set audio leveling settings.*

- void [TR\\_TsDelaySetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TR\\_TsDelay\\_List\\_t](#) TsDelayList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded, OperationFailed)

*Enable/Disable the TS delay mode of Loophrough TS's.*

- void [TR\\_TsDelayGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) TS\_List, out [TR\\_TsDelay\\_List\\_t](#) TsDelayList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded, OperationFailed)

*Gets the TS delay mode of Loophrough TS's.*

- void [ETV\\_ManipulationSettings\\_SetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ETV\\_ManipulationSettings\\_List\\_t](#) ETV\_ManipulationSettings\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Apply ETV Manipulation settings to a number of output services.*

- [ETV\\_ManipulationSettings\\_List\\_t](#) [ETV\\_ManipulationSettings\\_GetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the current settings for ETV Manipulation.*

- void [ETV\\_GetDefaultSettings](#) (in unsigned short BoardNbr, out boolean ETV\_PidsBlocked) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the default settings for ETV Manipulation.*

- void [ETV\\_SetDefaultSettings](#) (in unsigned short BoardNbr, in boolean ETV\_PidsBlocked) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set the default settings for ETV Manipulation.*

- void [ETV\\_ManipulationSettings\\_SetL\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ETV\\_ManipulationSettings\\_List\\_V2\\_t](#) ETV\_ManipulationSettings\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Apply ETV Manipulation settings to a number of output services.*

- [ETV\\_ManipulationSettings\\_List\\_V2\\_t](#) [ETV\\_ManipulationSettings\\_GetL\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)



*Get the current settings for ETV Manipulation.*

- void [ETV\\_EissFilter\\_SetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ETV\\_EissFilter\\_List\\_t](#) ETV\_EissFilter\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Apply ETV EISS filter settings to a number of output services.*

- [ETV\\_EissFilter\\_List\\_t](#) [ETV\\_EissFilter\\_GetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the current settings for ETV EISS filters.*

- void [DPI\\_SRT\\_Set](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DPI\\_SpliceRequestTime\\_t](#) SpliceRequestTime) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Defines the minimum time required between the reception of a splicerequest and the actual splice moment.*

- [DPI\\_SpliceRequestTime\\_t](#) [DPI\\_SRT\\_Get](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the currently set minimum time required between the reception of a splicerequest and the actual splice moment.*

- void [DPI\\_SpliceRequest](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DPI\\_SpliceRequest\\_t](#) SpliceRequest) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Trigger a splice request in manual mode for a spliceable channel.*

- void [DPI\\_ResetStatistics](#) (in unsigned short SlotNbr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Reset the DPI Scheduler statistics.*

- void [DPI\\_ChannelSetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DPI\\_ChannelSettings\\_List\\_t](#) ChannelSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add new splice-able channels or change the settings of existing channels.*

- void [DPI\\_ChannelSetL2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DPI\\_ChannelSettings2\\_List\\_t](#) ChannelSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add new splice-able channels or change the settings of existing channels.*

- void [DPI\\_ChannelSetL3](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DPI\\_ChannelSettings3\\_List\\_t](#) ChannelSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

*Add new splice-able channels or change the settings of existing channels.*

- [DPI\\_ChannelSettings\\_List\\_t](#) [DPI\\_ChannelGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_t](#) RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of all splice-able channels which are part of a specific output TS.*

- [DPI\\_ChannelSettings2\\_List\\_t](#) [DPI\\_ChannelGetL2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_t](#) RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of all splice-able channels which are part of a specific output TS.*

- [DPI\\_ChannelSettings3\\_List\\_t](#) [DPI\\_ChannelGetL3](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_t](#) RefTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get a list of all splice-able channels which are part of a specific output TS.*

- [DPI\\_ChannelStatus\\_List\\_t](#) [DPI\\_ChannelStatusL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DPI\\_ChannelStatus\\_List\\_t](#) ChannelStatusList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get current status information of all specified splice-able channels.*

- void [DPI\\_ChannelDeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DPI\\_ChannelSettings\\_List\\_t](#) ChannelSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete a list of splice-able channels.*

- void [DPI\\_ChannelDeleteL3](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DPI\\_ChannelSettings3\\_List\\_t](#) ChannelSettingsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete a list of splice-able channels.*

- void [DPI\\_GetSpliceCouples](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DPI\\_ChannelName\\_t](#) channel, out [DPI\\_Pid-CoupleList\\_t](#) couples) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the custom splice couples.*

- void [DPI\\_SetSpliceCouples](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DPI\\_ChannelName\\_t](#) channel, in [DPI\\_PidCoupleList\\_t](#) couples) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the custom splice couples.*

- void [DPI\\_PmtSpliceModeSetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DPI\\_PmtSpliceModeSettingList\\_t](#) lst) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set Pmt Splice Mode for given channels.*

- void [DPI\\_PmtSpliceModeGetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, out [DPI\\_PmtSpliceModeSettingList\\_t](#) lst) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get Pmt Splice Mode for given TS('s).*

- void [DPI\\_ClearPidBitratesSetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ClearPidBitratesList\\_t](#) ClearPidBitratesList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Clear pid bitrates from the main Service if the pid is not spliced.*

- [ClearPidBitratesList\\_t](#) [DPI\\_ClearPidBitratesGetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the current setting for Clear Pid Bitrates.*

- void [DPI\\_AddPidsFromSpliceSetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [AddPidsFromSpliceList\\_t](#) AddPidsFromSpliceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add pids from the splice if there are more pids in the splice than in the main service.*

- [AddPidsFromSpliceList\\_t](#) [DPI\\_AddPidsFromSpliceGetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the current setting for AddPidsFromSplice.*

- void [AlternateSourcesAdd](#) (in [IPS\\_Service\\_t](#) SvcOut, in [AlternateSourceList\\_t](#) AlternateSourceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Add alternate source settings to an output service.*

- void [AlternateSourcesGet](#) (in [IPS\\_Service\\_t](#) SvcOut, out [AlternateSourceSettings\\_t](#) AlternateSourceSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the alternate source settings for a specific output service.*

- void [AlternateSourcesDelete](#) (in [IPS\\_Service\\_t](#) SvcOut, in [AlternateSrcIdList\\_t](#) AlternateSrcIdList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Delete alternate source settings for output services.*

- void [SwitchToAlternateSource](#) (in [IPS\\_Service\\_t](#) SvcOut, in [AlternateSrcId\\_t](#) AlternateSrcId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Set a specific alternate source as active.*

- void [DPI\\_Scte35SourceSetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [Scte35SourceList\\_t](#) Scte35SourceList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the SCTE35 Source settings.*

- [Scte35SourceList\\_t](#) [DPI\\_Scte35SourceGetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the current SCTE35 Source settings.*

- void [DPI\\_Scte35ToggleOutOfNetworkSetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [Scte35ToggleOutOfNetworkList\\_t](#) Scte35ToggleOutOfNetworkList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the SCTE35 Toggle Out Of Network settings.*

- [Scte35ToggleOutOfNetworkList\\_t](#) [DPI\\_Scte35ToggleOutOfNetworkGetL](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) OutputSidList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the SCTE35 Toggle Out Of Network settings.*



- void [OutTS\\_RTP\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_OutTS\\_RTP\\_List\\_t](#) RTPList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set RTP setting for some OutTS.*
- void [OutTS\\_RTP\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) TSList, out [IPS\\_OutTS\\_RTP\\_List\\_t](#) RTPList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get RTP setting for some OutTS.*
- void [SetDefault\\_RTP](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [eRTP](#) RTPOnOff) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set default RTP setting to be used for new OutTS.*
- void [GetDefault\\_RTP](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [eRTP](#) RTPOnOff) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default RTP setting used for new OutTS.*
- void [OutTS\\_VLAN\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_VLAN\\_List\\_t](#) VLANList) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set VLAN settings for some OutTS.*
- void [OutTS\\_VLAN\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_VLAN\\_List\\_t](#) VLANList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get VLAN settings for some OutTS.*
- void [SetDefault\\_VLAN](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [VLAN\\_Settings\\_t](#) VLAN\_Settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set default VLAN settings to be used for new OutTS.*
- void [GetDefault\\_VLAN](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [VLAN\\_Settings\\_t](#) VLAN\_Settings) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default VLAN settings that are used for new OutTS.*
- void [OutTS\\_TOS\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_TOS\\_List\\_t](#) TOS\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set TOS settings for some OutTS.*
- void [OutTS\\_TOS\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_TOS\\_List\\_t](#) TOS\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get TOS settings for some OutTS.*
- void [SetDefault\\_TOS](#) (in unsigned short Board, in unsigned short TOS\_Value) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set default TOS settings to be used for new OutTS.*
- void [GetDefault\\_TOS](#) (in unsigned short Board, out unsigned short TOS\_Value) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default TOS settings that are used for new OutTS.*
- void [OutTS\\_SrcAddr\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_SrcAddr\\_List\\_t](#) SrcAddr\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set Source Address settings for some OutTS.*
- void [OutTS\\_SrcAddr\\_V2\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_SrcAddr\\_V2\\_List\\_t](#) SrcAddr\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [OutTS\\_SrcAddr\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_SrcAddr\\_List\\_t](#) SrcAddr\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get Source Address settings for some OutTS.*
- void [OutTS\\_SrcAddr\\_V2\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_SrcAddr\\_V2\\_List\\_t](#) SrcAddr\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

- void [OutTS\\_TTL\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_TTL\\_List\\_t](#) TTL\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set TTL settings for some OutTS.*
- void [OutTS\\_TTL\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_TTL\\_List\\_t](#) TTL\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get TTL settings for some OutTS.*
- void [SetDefault\\_TTL](#) (in unsigned short Board, in unsigned short TTL\_Value) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set default TTL settings to be used for new OutTS.*
- void [GetDefault\\_TTL](#) (in unsigned short Board, out unsigned short TTL\_Value) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default TTL settings that are used for new OutTS.*
- void [OutTS\\_VBR\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_VBR\\_List\\_t](#) VBRList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set VBR setting for some OutTS.*
- void [OutTS\\_VBR\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_VBR\\_List\\_t](#) VBRList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get VBR setting for some OutTS.*
- void [SetDefault\\_VBR](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [eVBR](#) VBROnOff) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set default VBR setting to be used for new OutTS.*
- void [GetDefault\\_VBR](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [eVBR](#) VBROnOff) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default VBR setting used for new OutTS.*
- void [SetDefault\\_UdpSize](#) (in unsigned short BoardNr, in unsigned short UdpSize) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set default UdpSize to be used for new output TSs.*
- void [GetDefault\\_UdpSize](#) (in unsigned short BoardNr, out unsigned short UdpSize) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default UdpSize that are used for new output TSs.*
- void [OutTS\\_UdpSize\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_UdpSize\\_List\\_t](#) UdpSizeList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set UdpSize per output TS.*
- void [OutTS\\_UdpSize\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_UdpSize\\_List\\_t](#) UdpList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get UdpSize per output TS.*
- void [IPS\\_GBE\\_UdpBndrySet](#) (in [IPS\\_Ref\\_t](#) RefPhys, in unsigned short UDP\_Boundary) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Specifies the range of UDP ports for which traffic will be sent to the CPU instead of being processed by the firmware.*
- void [IPS\\_GBE\\_UdpBndryGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out unsigned short UDP\_Boundary) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Query the board-specific UDP threshold.*
- void [IPS\\_GBE\\_FilterSet](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [PortFilter\\_t](#) PortFilter) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the PPC/MPEG filter settings of a GBE port.*
- void [IPS\\_GBE\\_FilterGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ePortFilterType](#) Type, out [PortFilter\\_t](#) PortFilter) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the PPC/MPEG filter settings of a GBE port.*

- void [ArpEntryAddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ArpEntryList\\_t](#) ArpEntryList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add an ARP entry on the specified board.*
- void [ArpEntryDeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ArpEntryList\\_t](#) ArpEntryList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Removes the specified static ARP entries.*
- [ArpEntryList\\_t](#) [ArpEntryGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the ARP entry list with status indication.*
- [ArpEntryList\\_t](#) [ArpEntryGetFilterL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [eArpStatus](#) ArpStatusFilter) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Get a filtered ARP entry list with status indication.*
- void [RouteEntryAddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_RouteList\\_t](#) RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add or replace static routes on the specified board and port.*
- void [RouteEntryIPv6AddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_RouteList\\_t](#) RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add or replace static routes on the specified board and port.*
- void [RouteEntryDeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_RouteList\\_t](#) RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete a list of routes.*
- void [RouteEntryIPv6DeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_RouteList\\_t](#) RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete a list of routes.*
- [IP\\_RouteList\\_t](#) [RouteEntryGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the routing entries for the specified board and port.*
- [IP\\_RouteList\\_t](#) [RouteEntryGetFilterL](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the static route entries.*
- [IP\\_RouteList\\_t](#) [RouteEntryIPv6GetFilterL](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the static route entries.*
- void [RouteEntrySetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_RouteList\\_t](#) RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add or replace the specified static routes.*
- void [RouteEntryAddL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_RouteList\\_t\\_V2](#) RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Add or replace static routes on the specified board and port.*
- void [RouteEntryDeleteL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_RouteList\\_t\\_V2](#) RouteList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Delete a list of routes.*
- [IP\\_RouteList\\_t\\_V2](#) [RouteEntryGetFilterL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get the static route entries.*
- [EndDeviceList\\_t](#) [EndDeviceEntryGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get a list of end devices.*

- void [PassPacketsWithCRC\\_Error\\_Set](#) (in unsigned short BoardNr, in boolean bPass) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Drop or pass IP input packets with CRC error.*
- void [PassPacketsWithCRC\\_Error\\_Get](#) (in unsigned short BoardNr, out boolean bPass) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Query if IP input packets with CRC error are being passed or dropped.*
- void [InTS\\_FEC\\_Dec\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [InTS\\_FEC\\_Dec\\_Setting\\_List\\_t](#) InTS\_FEC\_Dec\_Setting\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Set FEC decoder settings for some input TS.*
- void [InTS\\_FEC\\_Dec\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [InTS\\_FEC\\_Dec\\_Setting\\_List\\_t](#) InTS\_FEC\_Dec\_Setting\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get FEC decoder settings for some input TS.*
- void [InTS\\_FEC\\_Dec\\_DeL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Delete the FEC decoder settings for some input TS.*
- void [SetDefaultRule\\_FEC\\_Dec](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [InTS\\_FEC\\_Dec\\_DefRuleSetting\\_t](#) FEC\_Dec\_DefRuleSetting) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set FEC Dec default rule settings to be used for all InTS without FEC settings Defaults are attached to a (logical) port.*
- void [GetDefaultRule\\_FEC\\_Dec](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [InTS\\_FEC\\_Dec\\_DefRuleSetting\\_t](#) FEC\_Dec\_DefRuleSetting) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get FEC Dec default rule settings to be used for all InTS without FEC settings Defaults are attached to a (logical) port.*
- void [InTS\\_FEC\\_Dec\\_Get\\_Statistics](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [InTS\\_FEC\\_Dec\\_Statistics\\_List\\_t](#) InTS\_FEC\_Dec\_Statistics\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get FEC Dec statistics for a list of input TS.*
- void [InTS\\_FEC\\_Dec\\_Reset\\_Statistics](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Reset the FEC Dec statistics for a list of input TS.*
- void [InTS\\_FEC\\_Dec\\_Get\\_Status](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [InTS\\_FEC\\_Dec\\_Status\\_List\\_t](#) InTS\_FEC\_Dec\_Status\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the FEC Dec status for a list of input TS.*
- void [RTP\\_ReorderBufferSize\\_Set](#) (in unsigned short Board, in unsigned long Size) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the RTP reorder buffer size for all input TSs configured in RTP reorder mode.*
- void [RTP\\_ReorderBufferSize\\_Get](#) (in unsigned short Board, out unsigned long Size) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the RTP reorder buffer size (of all input TSs configured in RTP reorder mode)*
- void [OutTS\\_FEC\\_Enc\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_FEC\\_Enc\\_Setting\\_List\\_t](#) OutTS\_FEC\_Enc\_Setting\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)  
*Set FEC encoder settings for some output TS.*
- void [OutTS\\_FEC\\_Enc\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_FEC\\_Enc\\_Setting\\_List\\_t](#) OutTS\_FEC\_Enc\_Setting\_List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get FEC encoder settings for some output TS.*

- void [OutTS\\_FEC\\_Enc\\_V2\\_SetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_List\\_t](#) OutTS\_FEC\_Enc\_Setting\_V2\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*For IPGW.*

- void [OutTS\\_FEC\\_Enc\\_V2\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_List\\_t](#) OutTS\_FEC\_Enc\_Setting\_V2\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [SetDefault\\_FEC\\_Enc](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [OutTS\\_FEC\\_Enc\\_DefSetting\\_t](#) FEC\_Enc\_DefSetting) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set default FEC Enc settings to be used for new OutTS.*

- void [GetDefault\\_FEC\\_Enc](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [OutTS\\_FEC\\_Enc\\_DefSetting\\_t](#) FEC\_Enc\_DefSetting) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get default FEC Enc settings that are used for new OutTS.*

- void [SetErrorGen\\_FEC\\_Enc](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [eFECErrorMode](#) ErrorMode, in unsigned short NrGoodPackets, in unsigned short NrErrorPackets) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set FEC Error generator mode for OutTS.*

- void [SetErrorGen\\_FEC\\_Enc\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [OutTS\\_FEC\\_Enc\\_ErrorGen\\_t](#) OutTS\_FEC\_Enc\_ErrorGen) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set FEC Error generator mode for OutTS.*

- void [GetErrorGen\\_FEC\\_Enc](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [OutTS\\_FEC\\_Enc\\_ErrorGen\\_t](#) OutTS\_FEC\_Enc\_ErrorGen) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the active FEC Error generator mode.*

- void [OutTS\\_FEC\\_Enc\\_Overhead\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [OutTS\\_FEC\\_Enc\\_Overhead\\_List\\_t](#) OutTS\_FEC\_Enc\_Overhead\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get FEC encoder Row/Col overhead for some OutTS.*

- void [GetHitlessMergeModeEnabled](#) (in unsigned short BoardNr, out boolean HitlessMergeEnabled) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the Hitless Merge over Separate Port Pairs Enabled setting of an GbE Board.*

- void [SetHitlessMergeModeEnabled](#) (in unsigned short BoardNr, in boolean HitlessMergeEnable) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set the Hitless Merge over Separate Port Pairs Enabled setting of an GbE Board.*

- void [InTS\\_HitlessMergeSetL](#) (in unsigned short BoardNr, in [InTS\\_HitlessMergeSettingList\\_t](#) InTS\_HitlessMergeSettingList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed, LicenseError)

*Set Hitless merge settings for some input TS.*

- void [InTS\\_HitlessMergeGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [InTS\\_HitlessMergeSettingList\\_t](#) InTS\_HitlessMergeSettingList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get Hitless merge settings for some input TS.*

- void [GetDefaultRule\\_HM\\_Mode](#) (in unsigned short BoardNr, out [enHitlessMergeDefaultMode\\_t](#) HitlessMergeDefaultMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the Hitless Merge default mode for hitless merge input TSs of an GbE Board.*

- void [SetDefaultRule\\_HM\\_Mode](#) (in unsigned short BoardNr, in [enHitlessMergeDefaultMode\\_t](#) HitlessMergeDefaultMode) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set the Hitless Merge default mode for hitless merge input TSs of an GbE Board.*

- void [GetDefaultRule\\_HM\\_PacketWindow](#) (in unsigned short BoardNr, out unsigned short Hitless-MergeDefaultPacketWindow) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the Hitless Merge default packet window for hitless merge input TSs of an GbE Board.*

- void [SetDefaultRule\\_HM\\_PacketWindow](#) (in unsigned short BoardNr, in unsigned short Hitless-MergeDefaultPacketWindow) raises (Timeout, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set the Hitless Merge default packet window for hitless merge input TSs of an GbE Board.*

- void [IPS\\_GBE\\_StatisticsReSet](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Reset statistics.*

- void [IPS\\_GBE\\_StatisticsGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [GbEStatistics\\_t](#) Stats) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get statistics.*

- void [IPS\\_GBE\\_RatesGet](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [GbEStatistics\\_t](#) Stats) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get statistics rates per second.*

- void [IPS\\_GBE\\_StatisticsGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [GbEStatisticsEntryList\\_t](#) Stats) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get statistics as a list of [GbEStatisticsEntry\\_t](#).*

- void [IPS\\_GBE\\_RatesGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [GbEStatisticsEntryList\\_t](#) Stats) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get statistics rates per second.*

- void [IGMPv2JoinMulticastGroupL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IGMPv2MulticastGroupList\\_t](#) Groups) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Join zero or more multicast groups.*

- void [IGMPv2LeaveMulticastGroupL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IGMPv2MulticastGroupList\\_t](#) Groups) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Leave zero or more multicast groups.*

- [IGMPv2MulticastGroupList\\_t](#) [IGMPv2GetMulticastGroupL](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list with currently joined multicast groups.*

- void [IGMPv2SetMulticastGroupL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IGMPv2MulticastGroupList\\_t](#) Groups) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Specify the multicast groups to be joined.*

- [enumIGMP\\_Version](#) [GetIGMP\\_Version](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the highest supported IGMP version.*

- void [SetIGMP\\_Version](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [enumIGMP\\_Version](#) enVersion) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the highest IGMP version to be supported.*

- [IGMPv3GroupList\\_t](#) [IGMPv3GetMulticastGroupL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IGMPv3GroupList\\_t](#) Groups) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the list of multicast groups and filter specifications.*

- void [IGMPv3JoinLeaveL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IGMPv3GroupList\\_t](#) Groups) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Join and/or leave multiple multicast groups.*

- void [SetIGMP\\_IndividualMode](#) (in unsigned short BoardNumber, in boolean bModeOn) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)



*(Un)set individual join mode for this board.*

- void [GetIGMP\\_IndividualMode](#) (in unsigned short BoardNumber, out boolean bModeOn) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the individual join mode for this board.*

- void [PCTM\\_SetBoardDefThresholds](#) (in unsigned short BoardNr, in [PCTM\\_ThresholdValues\\_t](#) - BoardDefaultSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set board default threshold settings for each packet type.*

- void [PCTM\\_GetBoardDefThresholds](#) (in unsigned short BoardNr, out [PCTM\\_ThresholdValues\\_t](#) - BoardDefaultSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get board default threshold settings for each packet type.*

- void [PCTM\\_SetStreamThresholds](#) (in unsigned short BoardNr, in [PCTM\\_StreamThresholdSettings\\_List\\_t](#) StreamSpecificSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set or unset stream specific packet type thresholds settings that overwrite the board default settings.*

- void [PCTM\\_GetStreamThresholds](#) (in [IPS\\_Ref\\_t](#) Location, in [IPS\\_RefTS\\_List\\_t](#) Streams, out [PCTM\\_StreamThresholdSettings\\_List\\_t](#) StreamSpecificSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get stream specific packet type thresholds settings.*

- void [PCTM\\_GetPacketCounters](#) (in [IPS\\_Ref\\_t](#) Location, in [IPS\\_RefTS\\_List\\_t](#) Streams, out [PCTM\\_StreamPacketCounters\\_List\\_t](#) PacketCounters) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get packet counters of one, multiple or all streams.*

- void [PCTM\\_Reset](#) (in unsigned short BoardNr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Reset all packet counters, clear all threshold alarms and restart all threshold measurement windows.*

- void [UninstallFeature](#) (in unsigned short BoardNr, in string Name) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*UnInstalls the license of a feature.*

- void [SetFeatureState](#) (in unsigned short BoardNr, in string Name, in [eFeatureState](#) State) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the state of a feature.*

- void [GetHostId](#) (in unsigned short BoardNr, out string HostId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*GetHostId.*

- void [GetFamilyName](#) (in unsigned short BoardNr, out string FamilyName) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*GetFamilyName.*

- [FeatureList\\_t](#) [GetFeatureSettings](#) (in unsigned short BoardNr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the settings of all the registered features.*

- [LicenseValidation\\_t](#) [GetLicenseValidation](#) (in unsigned short BoardNr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*GetVersionAndValidationKey.*

- [eDeviceState](#) [GetDeviceState](#) (in unsigned short BoardNr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*GetDeviceState.*

- [TempLicenseData GetTempLicenseData](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the data of the Temporary Licenses.*

- void [ExpireTempLicenses](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Makes sure the temporary licenses are expired at the time the users wants it.*

- [BoardFeatureUsageList\\_t GetBoardFeatureUsageL](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Returns the licenses in use per feature and per board.*

- void [SetDefaultServiceLossTriggers](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [TriggerBitmap\\_t](#) TriggerBitmap) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default Service Loss Alarm triggers.*

- void [GetDefaultServiceLossTriggers](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [TriggerBitmap\\_t](#) TriggerBitmap) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default Service Loss Alarm triggers.*

- void [SetDefaultTS\\_LossTriggers](#) (in unsigned short Board, in [TriggerBitmap\\_t](#) TriggerBitmap) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default TS Loss Alarm triggers.*

- void [GetDefaultTS\\_LossTriggers](#) (in unsigned short Board, out [TriggerBitmap\\_t](#) TriggerBitmap) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default TS Loss Alarm triggers.*

- void [SetServiceLossTriggers](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceLossTriggerList\\_t](#) TriggerList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the service loss triggers for specified services on given TS.*

- void [ResetServiceLossTriggers](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) InputSidList) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Reset the service loss triggers for specified services on given TS.*

- void [GetServiceLossTriggers](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ServiceIdList\\_t](#) InputSidList, out [ServiceLossTriggerList\\_t](#) TriggerList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the service loss triggers for all or specified input services on given Port and TS.*

- void [SetTS\\_LossTriggers](#) (in [IPS\\_Ref\\_t](#) Ref, in [TS\\_LossTriggerList\\_t](#) TriggerList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the TS loss triggers for specified TS's on given port.*

- void [ResetTS\\_LossTriggers](#) (in [IPS\\_Ref\\_t](#) Ref, in [Ref\\_List\\_t](#) RefList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Reset the TS loss triggers for specified TS's on given port.*

- void [GetTS\\_LossTriggers](#) (in [IPS\\_Ref\\_t](#) Ref, in [Ref\\_List\\_t](#) RefList, out [TS\\_LossTriggerList\\_t](#) -TriggerList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the TS loss triggers for all or specified input TS's on given Port.*

- void [SetDeviceActiveMode](#) (in [eDeviceActiveMode](#) DeviceActiveMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the device mode.*

- void [GetDeviceActiveMode](#) (out [eDeviceActiveMode](#) DeviceActiveMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Query the device mode.*

- void [SetPowerupDeviceActiveMode](#) (in [eDeviceActiveMode](#) DeviceActiveMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the power-up device mode.*



- void [GetPowerupDeviceActiveMode](#) (out [eDeviceActiveMode](#) DeviceActiveMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the power-up device mode.*
- void [GetPeerDeviceActiveMode](#) (out [eDeviceActiveMode](#) DeviceActiveMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the peer device mode.*
- void [SetDeviceBU\\_Params](#) (in [DeviceBackupParams\\_t](#) DeviceBackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the parameters to be used by Device Backup.*
- void [GetDeviceBU\\_Params](#) (out [DeviceBackupParams\\_t](#) DeviceBackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the parameters used by Device Backup.*
- void [SetDeviceBU\\_ParamsV2](#) (in [DeviceBackupParamsV2\\_t](#) DeviceBackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the parameters to be used by Device Backup.*
- void [GetDeviceBU\\_ParamsV2](#) (out [DeviceBackupParamsV2\\_t](#) DeviceBackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the parameters used by Device Backup.*
- void [DeviceBU\\_ActivateDevice](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Instructs this device to gracefully become the active device.*
- void [SetIP\\_AliasMode](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [eActivationMode](#) ActivationMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set activation mode for the list of IP aliases associated with a specific network interface.*
- void [GetIP\\_AliasMode](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [eActivationMode](#) ActivationMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get activation mode for the list of IP aliases associated with a specific network interface.*
- void [SetIP\\_AliasList](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IP\\_List\\_t](#) IP\_Addresses) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the list of IP aliases associated with a specific network interface.*
- void [GetIP\\_AliasList](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [IP\\_List\\_t](#) IP\_Addresses) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the list of IP aliases associated with a specific network interface.*
- void [SetDeviceBackupTriggers](#) (in [MM\\_IDList](#) Triggers) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the list of triggers that define when a backup is needed.*
- void [GetDeviceBackupTriggers](#) (out [MM\\_IDList](#) Triggers) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the list of triggers that define when a backup is needed.*
- void [SetCardNotOperationalTriggers](#) (in unsigned short Board, in [AlarmTriggerRuleList](#) Rules) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set list alarm trigger rules for CardNotOperational.*
- void [GetCardNotOperationalTriggers](#) (in unsigned short Board, out [AlarmTriggerRuleList](#) Rules) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get list alarm trigger rules for CardNotOperational.*
- void [GetActiveCardNotOperTriggers](#) (in unsigned short Board, out [MM\\_IDList](#) ActiveAlarms) raises (TimeOut, OpNotAllowed, OpNotSupported)  
*Get list measurement references of all active alarms configured as trigger for backup.*

- void [GetSettingsRestoreOptions](#) (out [RestoreOptions](#) options) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the restore options.*
- void [SetSettingsRestoreOptions](#) (in [RestoreOptions](#) options) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set restore options.*
- void [BackupSettings](#) (out [ByteStream](#) settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieve settings from the device.*
- void [RestoreSettings](#) (in [ByteStream](#) settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Restore settings onto the device.*
- void [BackupSettings2](#) (in unsigned short scope, out [ByteStream](#) settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieve settings from the device.*
- void [RestoreSettings2](#) (in unsigned short scope, in [ByteStream](#) settings) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Restore settings onto the device.*
- void [RestoreSettings3](#) (in unsigned short scope, in [ByteStream](#) settings, in boolean bReturnEarly, out [eRestoreSettingsResult](#) Result) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Restore settings onto the device and try to do this seamless.*
- void [PollRestoreSettingsResult](#) (out [eRestoreSettingsResult](#) Result) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Check if the asynchronously launched RestoreSettingsAsync call has finished its job (poll for its status).*
- void [GetSettingsRestoreOptions\\_V2](#) (out [RestoreOptions\\_V2](#) options) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the restore options.*
- void [SetSettingsRestoreOptions\\_V2](#) (in [RestoreOptions\\_V2](#) options) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set restore options.*
- void [SetTS\\_BU\\_Params](#) (in [IPS\\_RefTS\\_t](#) InTS, in [TS\\_BackupParams\\_t](#) TS\_BackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the Backup parameters for an Input TS.*
- void [GetTS\\_BU\\_Params](#) (in [IPS\\_RefTS\\_t](#) InTS, out [TS\\_BackupParams\\_t](#) TS\_BackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the Backup parameters for an Input TS.*
- void [SetActiveInputTS](#) (in [IPS\\_RefTS\\_t](#) InTS, in [IPS\\_RefTS\\_t](#) ActiveInTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Let the user manually set the active InputTS.*
- void [GetActiveInputTS](#) (in [IPS\\_RefTS\\_t](#) InTS, out [IPS\\_RefTS\\_t](#) ActiveInTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the active InputTS.*
- void [SetTS\\_BU\\_SwitchToGoodSrcOnly](#) (in unsigned short Board, in boolean Enabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets for TS backup that the switch to the backup TS will only happen if this TS is not in alarm.*
- void [GetTS\\_BU\\_SwitchToGoodSrcOnly](#) (in unsigned short Board, out boolean Enabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets for TS backup if the switch to the backup TS will only happen if this TS is not in alarm.*

- void [GetMIP\\_SyncDeviceRole](#) (out [enMIP\\_Sync\\_DeviceRole](#) MIP\_Sync\_DeviceRole) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the MIP Synchronization role of a device.*
- void [SetMIP\\_SyncDeviceRole](#) (in [enMIP\\_Sync\\_DeviceRole](#) MIP\_Sync\_DeviceRole) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the MIP Synchronization role of a device.*
- void [GetMIP\\_SyncTargetSettings](#) (out [MIP\\_SyncTargetSettings\\_t](#) TargetSettings) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the settings of the MIP Synchronization Target.*
- void [SetMIP\\_SyncTargetSettings](#) (in [MIP\\_SyncTargetSettings\\_t](#) TargetSettings) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the settings of the MIP Synchronization Target.*
- void [ASI\\_SFN\\_MKII\\_GetMIP\\_SyncEnable](#) (in unsigned short BoardNr, out boolean MIP\_Sync-Enabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the MIP Synchronization Enabled setting of an ASI SFN MKII Board.*
- void [ASI\\_SFN\\_MKII\\_SetMIP\\_SyncEnable](#) (in unsigned short BoardNr, in boolean MIP\_SyncEnable) raises (TimeOut, OperationFailed, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the MIP Synchronization Enabled setting of an ASI SFN MKII Board.*
- void [SetASIBoardType](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [eASI\\_BoardType](#) ASIBoardType) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Configures the ASI board in either regular or DTF mode.*
- void [GetASIBoardType](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [eASI\\_BoardType](#) ASIBoardType) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Reads the current ASI board sub-type.*
- [ASI\\_DTF\\_OutputTS\\_t ASI\\_DTF\\_OutTS\\_Get](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the current DTF settings.*
- [ASI\\_DTF\\_OutputTS\\_Ex\\_t ASI\\_DTF\\_OutTS\\_GetEx](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the current DTF settings.*
- [ASI\\_DTF\\_OutputTS\\_RDSCS\\_t ASI\\_DTF\\_OutTS\\_RDSCS\\_Get](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the DTF RDSCS settings.*
- void [ASI\\_DTF\\_Change](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ASI\\_DTF\\_OutputTS\\_t](#) OutputTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the DTF settings.*
- void [ASI\\_DTF\\_ChangeEx](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ASI\\_DTF\\_OutputTS\\_Ex\\_t](#) OutputTS) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the DTF settings.*
- void [ASI\\_DTF\\_RDSCS\\_Change](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ASI\\_DTF\\_OutputTS\\_RDSCS\\_t](#) OutputTS) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)  
*Sets DTF RDSCS settings.*
- unsigned long [ASI\\_DTF\\_OutTS\\_GetStuffingBitRate](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the bit rate of the stuffing packets in the DTF output stream.*
- [ASI\\_DTF\\_ScramblingKeyList ASI\\_DTF\\_GetKeyList](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the list of 64 scrambling key pairs.*

- void [ASI\\_DTF\\_SetKeyList](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [ASI\\_DTF\\_ScramblingKeyList](#) KeyList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets up the list with 64 scrambling key pairs.*
- void [ASI\\_DTF\\_SetKeyList\\_V2](#) (in unsigned short BoardNumber, in [ASI\\_DTF\\_KeyList\\_t](#) KeyList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Replace DTF BISS scrambling keys.*
- void [ASI\\_DTF\\_ClearCredentials](#) (in unsigned short BoardNumber) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Clear all DTF related credentials.*
- void [ASI\\_DTF\\_SetSWDK](#) (in unsigned short BoardNumber, in string SWDK) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Enter a SWDF decryption key.*
- [MM\\_MessageList](#) [MM\\_GetMessageList](#) (in unsigned long StartMsgNbr, in unsigned long EndMsgNbr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Used to get the a sequence of messages from the device.*
- [MessageBufferInfo](#) [GetMessageBufferInfo](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the current status of the MsgBuffer.*
- void [GenerateTestMsg](#) () raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*causes a test message to be sent.*
- void [UpdatePendingTestAlarm](#) (in unsigned short Board, in octet Action, in string Detail) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*update a test alarm via user input.*
- void [MM\\_GetAllOpenMsgStatus](#) (out unsigned short OldestSeqNumber, out unsigned short LatestSeqNumber, out [MM\\_Message](#) OldestMessage, out [MM\\_Message](#) LatestMessage, out [MM\\_MessageList](#) OpenMessageList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets all messages with open status plus current message buffer info.*
- void [MM\\_SetMsgTypeSettingL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [MM\\_MessageTypeSettingList](#) List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set settings per message-type.*
- void [MM\\_GetMsgTypeSettingL](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [MM\\_MessageTypeSettingList](#) List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get settings per message-type.*
- void [MM\\_SetMsgSettingL](#) (in [MM\\_MessageSettingList](#) List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set settings per message.*
- void [MM\\_GetMsgSettingL](#) (out [MM\\_MessageSettingList](#) List) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get settings per message.*
- void [SetAllMsgEnabled](#) (in octet AllMsgEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Specify whether all messages are enabled.*
- void [GetAllMsgEnabled](#) (out octet AllMsgEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get Specification whether all messages are enabled.*
- [MM\\_TypeInfoList](#) [MM\\_GetTypeInfo](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [MM\\_ID\\_Category](#) ID\_Cat, in [DeviceLevel](#) Level) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get static info of measurements according to category and level.*

- [MM\\_TypeInfoList\\_V2 MM\\_GetTypeInfo\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [MM\\_ID\\_Category](#) ID\_Cat, in [DeviceLevel](#) Level) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get static info of measurements according to category and level (V2: field added).*
- [MM\\_TypeInfoList MM\\_GetTypeInfoForTypeIDs](#) (in unsigned short Board, in [MM\\_TypeIDList](#) M-MM\_TypeIDs) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get static info of measurements according MM\_TypeID.*
- [MM\\_MeasurementStatList MM\\_GetNbrOpenMeasurements](#) (in [IPS\\_RefTS\\_t](#) TSref, in [MM\\_ID\\_Category](#) ID\_Cat, in [DeviceLevel](#) Level) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get number of open measurements according to category and level.*
- [MM\\_MeasurementStatList MM\\_GetNbrOpenMeasurementsOnLevel](#) (in [IPS\\_RefTS\\_t](#) TSref, in [MM\\_ID\\_Category](#) ID\_Cat, in [DeviceLevel](#) Level) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get number of open measurements according to category and level.*
- [MM\\_MeasurementList MM\\_GetAllMeasurements](#) (in [IPS\\_RefTS\\_t](#) TSref, in [MM\\_ID\\_Category](#) ID\_Cat, in [DeviceLevel](#) Level) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get all measurements according to category and level.*
- [MM\\_MeasurementList MM\\_GetOpenMeasurements](#) (in [IPS\\_RefTS\\_t](#) TSref, in [MM\\_ID\\_Category](#) ID\_Cat, in [DeviceLevel](#) Level) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get all open measurements according to category and level.*
- [MM\\_MeasurementList MM\\_GetMeasurements](#) (in [IPS\\_RefTS\\_t](#) TSref, in [MM\\_IDList](#) List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get measurements according to a list of references.*
- void [SetBitrateErrorThreshold](#) (in unsigned short BoardNr, in [BoardBitrateThreshold](#) BitrateThreshold) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the service loss bitrate threshold (for video, audio and data) on the given board.*
- void [GetBitrateErrorThreshold](#) (in unsigned short BoardNr, out [BoardBitrateThreshold](#) BitrateThreshold) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the service loss bitrate threshold (for video, audio and data) on the given board.*
- void [MM\\_SetErrorInterval](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [MM\\_MessageTypeErrorIntervalList](#) List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the intervals for the given messages on the given board.*
- void [MM\\_GetErrorInterval](#) (in [IPS\\_Ref\\_t](#) RefPhys, out [MM\\_MessageTypeErrorIntervalList](#) List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the error intervals for all error types on the given board.*
- void [SetGenerateAlarmsIfGroomed](#) (in [IPS\\_Ref\\_t](#) RefPhys, in boolean GenerateGroomedOnly) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set whether alarms will only be generated if groomed.*
- void [GetGenerateAlarmsIfGroomed](#) (in [IPS\\_Ref\\_t](#) RefPhys, out boolean GenerateGroomedOnly) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get whether alarms will only be generated for groomed services.*
- void [SetNtpAlarmOffset](#) (in long Offset) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the NTP offset alarm threshold value.*
- void [GetNtpAlarmOffset](#) (out long Offset) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the NTP offset alarm threshold value.*

- void [SetCardOperFailureTriggers](#) (in [CofTriggerList\\_t](#) TriggerList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the trigger for card not operational failure alarms for one or more cards.*
- void [GetCardOperFailureTriggers](#) (out [CofTriggerList\\_t](#) TriggerList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the triggers for card not operational failure alarms for all cards.*
- void [OutTsSetBitrateThresholdL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [OutTS\\_AlarmSettingList\\_t](#) AlarmList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets bitrate threshold alarm parameters for a (number of) TS(s).*
- [OutTS\\_AlarmSettingList\\_t](#) [OutTsGetBitrateThresholdL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [RefList\\_t](#) Ts-Idxs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves the bitrate threshold alarm parameters for a (number of) TS(s).*
- void [SetBitrateAlarmDefaults](#) (in unsigned short Board, in [BitrateAlarmSetting\\_t](#) BitrateAlarm) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets bitrate threshold alarm default parameters.*
- [BitrateAlarmSetting\\_t](#) [GetBitrateAlarmDefaults](#) (in unsigned short Board) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves bitrate threshold alarm default parameters.*
- void [SetServiceBU\\_Params](#) (in [IPS\\_Service\\_t](#) OutService, in [ServiceBackupParams\\_t](#) ServiceBackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the ServiceBackup parameters for an output service.*
- void [GetServiceBU\\_Params](#) (in [IPS\\_Service\\_t](#) OutService, out [ServiceBackupParams\\_t](#) ServiceBackupParams) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the ServiceBackup parameters of an output service.*
- void [SetServiceBU\\_Params2](#) (in [IPS\\_Service\\_t](#) OutService, in [ServiceBackupParams2\\_t](#) ServiceBackupParams2) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the ServiceBackup parameters for an output service.*
- void [GetServiceBU\\_Params2](#) (in [IPS\\_Service\\_t](#) OutService, out [ServiceBackupParams2\\_t](#) ServiceBackupParams2) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the ServiceBackup parameters of an output service.*
- void [SetServiceBU\\_BackupL](#) (in [IPS\\_Service\\_t](#) OutService, in [BackupSrvTableList\\_t](#) BackupSrvList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets the ServiceBackupList of an output service.*
- void [GetServiceBU\\_BackupL](#) (in [IPS\\_Service\\_t](#) OutService, out [BackupSrvTableList\\_t](#) BackupSrvList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets the ServiceBackupList of an output service.*
- void [SetActiveInputService](#) (in [IPS\\_Service\\_t](#) OutService, in [IPS\\_Service\\_t](#) InMergeSvcSource, in [IPS\\_Service\\_t](#) ActiveInService) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Lets the user activate for a certain output service, the input service to be used.*
- void [GetActiveInputService](#) (in [IPS\\_Service\\_t](#) OutService, in [IPS\\_Service\\_t](#) InMergeSvcSource, out [IPS\\_Service\\_t](#) ActiveInService) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Gets for a certain output service, the active input service.*
- void [SetServiceBU\\_SwitchToGoodSrcOnly](#) (in unsigned short Board, in boolean Enabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Sets for service backup that the switch to the backup service will only happen if this service is not in alarm.*
- void [GetServiceBU\\_SwitchToGoodSrcOnly](#) (in unsigned short Board, out boolean Enabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)



*Gets for service backup if the switch to the backup service will only happen if this service is not in alarm.*

- void [SetServiceBU\\_BackupL\\_V2](#) (in [IPS\\_Service\\_t](#) OutService, in [AltSrcBU\\_Setting\\_t](#) AltSrcBU\_Setting) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the ServiceBackupList of an output service for a certian alternate source.*

- void [GetServiceBU\\_BackupL\\_V2](#) (in [IPS\\_Service\\_t](#) OutService, in [AlternateSrcIdList\\_t](#) AlternateSrcIdList, out [AltSrcBU\\_SettingList\\_t](#) AltSrcBU\_SettingList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the Backup services for all alternate sources of an output service.*

- void [SetActiveInputService\\_V2](#) (in [IPS\\_Service\\_t](#) OutService, in [AltSrcMergeActiveInSvc\\_t](#) AltSrcMergeActiveInSvc) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Lets the user activate for a certain output service, the input service to be used.*

- void [GetActiveInputServices\\_V2](#) (in [IPS\\_Service\\_t](#) OutService, in [AlternateSrcIdList\\_t](#) AlternateSrcIdList, out [AltSrcMergeActiveInSvcList\\_t](#) AltSrcMergeActiveInSvcList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets for a certain output service, the active input services for all its alternate sources.*

- void [BoardBU\\_SvcSourcesActivate](#) (in unsigned short BoardNr, in [ServiceSourcePriority\\_t](#) SourcePrio) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Lets the user activate for a all active alternate output services on a board the main or backup service sources.*

- void [OutTS\\_BU\\_SvcSource\\_ActivateL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [TsOutSvcSourceSelectionList\\_t](#) - TsOutSvcSourceSelectionList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Lets the user activate for all active alternate output services of one or more output transport streams, the main or backup service sources.*

- [SMX\\_StatMuxPoolList](#) [SMX\\_StatMuxPools\\_GetL](#) (in [SMX\\_PoolRef\\_t](#) PoolRef) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- [SMX\\_StatMuxPoolList\\_V2](#) [SMX\\_StatMuxPools\\_GetL\\_V2](#) (in [SMX\\_PoolRef\\_t](#) PoolRef) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [SMX\\_StatMuxPools\\_SetL](#) (in unsigned short BoardNr, in [SMX\\_StatMuxPoolList](#) PoolList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [SMX\\_StatMuxPools\\_SetL\\_V2](#) (in unsigned short BoardNr, in [SMX\\_StatMuxPoolList\\_V2](#) - PoolList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- [SMX\\_EncoderList](#) [SMX\\_Encoders\\_GetL](#) (in [SMX\\_PoolRef\\_t](#) PoolRef) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- [IP\\_List\\_t](#) [SMX\\_EncoderBlackList\\_GetL](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [SMX\\_EncoderBlackList\\_AddL](#) (in unsigned short BoardNr, in [IP\\_List\\_t](#) EncoderList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [SMX\\_EncoderBlackList\\_DeleteL](#) (in unsigned short BoardNr, in [IP\\_List\\_t](#) EncoderList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- [SMX\\_ServiceList](#) [SMX\\_Service\\_GetL](#) (in [SMX\\_PoolRef\\_t](#) PoolRef) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- string [SMX\\_BoardSetup\\_Get](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [SMX\\_BoardSetup\\_Set](#) (in unsigned short BoardNr, in string MulticastIP) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- [BackupType](#) [SMX\\_BackupType\\_Get](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [SMX\\_BackupType\\_Set](#) (in unsigned short BoardNr, in [BackupType](#) Type) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)

- boolean [SMX\\_GetStatmux](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- void [SMX\\_SetStatmux](#) (in unsigned short BoardNr, in boolean Enabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- [SMX\\_EnablingMode\\_e](#) [SMX\\_GetStatmux\\_V2](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*SMX\_GetStatmux(in unsigned short BoardNr) Get the statmux enabling mode.*
- void [SMX\\_SetStatmux\\_V2](#) (in unsigned short BoardNr, in [SMX\\_EnablingMode\\_e](#) EnableMode) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*SMX\_SetStatmux(in unsigned short BoardNr, in SMX\_EnablingMode\_e EnableMode) Sets the statmux enabling mode.*
- void [SMX\\_GetStatmuxPoolBitrates](#) (in [SMX\\_PoolRef\\_t](#) PoolRef, out [SMX\\_EncVideoBitRateList](#) EncBitRatesList, out [BitRateSampleList\\_t](#) NullRateList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)
- [SMX36\\_NetworkQoS\\_t](#) [SMX36\\_QoS\\_Get](#) () raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*SMX36\_QoS\_Get() Reads the QoS parameters for all statmux communication in the Device.*
- void [SMX36\\_QoS\\_Set](#) (in [SMX36\\_NetworkQoS\\_t](#) QoS) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*SMX36\_QoS\_Set(in SMX36\_NetworkQoS\_t QoS) Sets the QoS parameters for all statmux communication in the Device.*
- [SMX36\\_Community\\_t](#) [SMX36\\_Community\\_Get](#) () raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*SMX36\_Community\_Get() Reads the community parameters for the device i.e.*
- void [SMX36\\_Community\\_Set](#) (in [SMX36\\_Community\\_t](#) Community) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*SMX36\_Community\_Set(in SMX36\_Community\_t Community) Sets the community parameters for the device i.e.*
- unsigned short [SMX36\\_PortPairSetup\\_Get](#) (in unsigned short BoardNr) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*SMX36\_PortPairSetup\_Get(in unsigned short BoardNr ) Reads the used Physical PortPair number 0=pairA 2=pairB.*
- void [SMX36\\_PortPairSetup\\_Set](#) (in unsigned short BoardNr, in unsigned short PortNumber) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*SMX36\_PortPairSetup\_Set(in unsigned short BoardNr, in unsigned short PortNumber) Sets the used Physical PortPair [0,2].*
- [SMX36\\_StatmuxControllerList\\_t](#) [SMX36\\_Controllers\\_GetL](#) (in long Id) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*SMX36\_StatmuxControllerList\_t SMX36\_Controllers\_GetL( in long Id ) Reads the statmux controller parameters.*
- unsigned short [SMX36\\_GetStartingUdpPort](#) () raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*SMX36\_GetStartingUdpPort() Reads the starting UDP port number given to the SPS to be used for communication with the SPSs.*
- void [SMX36\\_SetStartingUdpPort](#) (in unsigned short StartingUdpPort) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*SMX36\_SetStartingUdpPort(in unsigned short StartingUdpPort) Sets the starting UDP port number given to the SPS to be used for communication with the SPSs.*
- [SMX36\\_PoolList\\_t](#) [SMX36\\_Pool\\_GetL](#) (in long poolid) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*SMX36\_Pool\_GetL(in long poolid) Reads the Pool parameters.*



- [SMX36\\_PoolList\\_V2\\_t SMX36\\_Pool\\_V2\\_GetL](#) (in long poolid) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- void [SMX36\\_Pool\\_SetL](#) (in [SMX36\\_PoolList\\_t](#) Poollist) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
  - SMX36\_Pool\_SetL(in SMX36\_PoolList\_t Poollist) Sets the parameters for the pool in the list.*
- void [SMX36\\_Pool\\_V2\\_SetL](#) (in [SMX36\\_PoolList\\_V2\\_t](#) Poollist) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- long [SMX36\\_Pool\\_Create](#) (in string PoolName, in unsigned long PoolBandwidth, in unsigned short PoolMaxVSECapacity) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
  - SMX36\_Pool\_Create(in string PoolName) creates a pool and return the Id.*
- void [SMX36\\_Pool\\_DeleteL](#) (in [SMX36\\_PoolIdList\\_t](#) PoolIdlist) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- [SMX36\\_AlgorithmIdentifierList\\_t SMX36\\_SupportedAlgorithm\\_GetL](#) () raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
  - SMX36\_SupportedAlgorithm\_GetL() Retrieve the supported D9036 statmux algorithms.*
- [SMX36\\_AlgorithmIdentifier\\_t SMX36\\_DefaultAlgorithm\\_Get](#) () raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
  - SMX36\_DefaultAlgorithm\_Get() Retrieve the default selected algorithm for a pool.*
- void [SMX36\\_DefaultAlgorithm\\_Set](#) (in [SMX36\\_AlgorithmIdentifier\\_t](#) DefaultAlgorithm) raises (-TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
  - SMX36\_DefaultAlgorithm\_Set( in SMX36\_AlgorithmIdentifier\_t DefaultAlgorithm ) Set the algorithm to be used by all pools.*
- [SMX36\\_EncoderList\\_t SMX36\\_Encoder\\_GetL](#) (in long Encoderid) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
  - SMX36\_Encoder\_GetL( in long Encoderid) Reads the Encoder parameters.*
- long [SMX36\\_Encoder\\_Create](#) (in string EncoderIPAddress) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
  - SMX36\_Encoder\_Create( in string EncoderIPAddress ) creates an encoder and return the Id.*
- void [SMX36\\_Encoder\\_DeleteL](#) (in [SMX36\\_EncoderIdList\\_t](#) EncoderIdlist) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- [SMX36\\_VSEList\\_t SMX36\\_VSE\\_GetL](#) (in long VSEid) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
  - SMX36\_VSE\_GetL( in long VSEid) Reads the VSE parameters.*
- [SMX36\\_VSEList\\_V2\\_t SMX36\\_VSE\\_V2\\_GetL](#) (in long VSEid) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- [SMX36\\_VSEList\\_V3\\_t SMX36\\_VSE\\_V3\\_GetL](#) (in long VSEid) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- [SMX36\\_VSEList\\_V4\\_t SMX36\\_VSE\\_V4\\_GetL](#) (in long VSEid) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- void [SMX36\\_VSE\\_SetL](#) (in [SMX36\\_VSEList\\_t](#) VSE) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
  - SMX36\_VSE\_SetL( in SMX36\_VSEList\_t VSE) Sets the VSE parameters.*
- void [SMX36\\_VSE\\_V2\\_SetL](#) (in [SMX36\\_VSEList\\_V2\\_t](#) VSE) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- void [SMX36\\_VSE\\_V3\\_SetL](#) (in [SMX36\\_VSEList\\_V3\\_t](#) VSE) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- void [SMX36\\_VSE\\_V4\\_SetL](#) (in [SMX36\\_VSEList\\_V4\\_t](#) VSE) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- long [SMX36\\_VSE\\_Create](#) (in long EncoderId, in string VSEName) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*SMX36\_VSE\_Create( in long EncoderId, in string VSEName ) creates an VSE and return the Id.*

- void **SMX36\_VSE\_DeleteL** (in **SMX36\_VSEIdList\_t** VSEIdlist) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- **SMX36\_VSE\_CalculatedRatesList\_t** **SMX36\_VSE\_CalculateDefaultRates** (in **SMX\_Pool\_Calculate\_t** Pool, in **SMX36\_VSEList\_V2\_t** VSElist) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*SMX36\_VSE\_CalculateDefaultRates Calculate the VSE default rates using the in data.*

- **SMX36\_VSE\_CalculatedRatesList\_t** **SMX36\_VSE\_CalcDefaultRates\_V2** (in **SMX\_Pool\_Calculate\_t** Pool, in **SMX36\_VSEList\_V3\_t** VSElist) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*SMX36\_VSE\_CalcDefaultRates\_V2 Calculate the VSE default rates using the VSE data with support for code/format.*

- void **SMX36\_SwapEncoder** (in string MainEncoderIPAddress, in string BackupEncoderIPAddress) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*SMX36\_SwapEncoder(in string MainEncoderIPAddress, in string BackupEncoderIPAddress) Replaces all the main encoder VSE's with the backup encoder VSE's in the cases where the VSE name's matches between the main and backup encoder.*

- **SMX36\_VSEBackupList\_t** **SMX36\_VSEBackupList\_GetL** () raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*SMX36\_VSEBackupList\_GetL( ) Get the VSE Backup list.*

- **SMX36\_VSEBackupList\_V2\_t** **SMX36\_VSEBackupList\_V2\_GetL** () raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- void **SMX36\_VSEBackupList\_AddL** (in **SMX36\_VSEBackupList\_t** BackupList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*SMX36\_VSEBackupList\_AddL( in SMX36\_VSEBackupList\_t VSEBackupList ) Add entry's to the VSE backup list.*

- void **SMX36\_VSEBackupList\_V2\_AddL** (in **SMX36\_VSEBackupList\_V2\_t** BackupList) raises (-TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- void **SMX36\_VSEBackupList\_DeleteL** (in **SMX36\_VSEBackupList\_t** BackupList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*SMX36\_VSEBackupList\_DeleteL( in SMX36\_VSEBackupList\_t BackupList ) Remove entry's from the backup list (based on Main Enc IP, Main VSE info).*

- void **SMX36\_VSEBackupList\_V2\_DeleteL** (in **SMX36\_VSEBackupList\_V2\_t** BackupList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- void **SMX36\_VSEBackupList\_FlushL** () raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*SMX36\_VSEBackupList\_FlushL( ) Deletes all entry's the entire VSE backup list.*

- void **SMX36\_VSEBackupList\_SetL** (in **SMX36\_VSEBackupList\_t** BackupList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*SMX36\_VSEBackupList\_SetL( in SMX36\_VSEBackupList\_t VSEBackupList ) Set the VSE backup state and backup VSE for a certain Main VSE identified by the MainEncoderIPAddress and MainVSEName.*

- void **SMX36\_VSEBackupList\_V2\_SetL** (in **SMX36\_VSEBackupList\_V2\_t** BackupList) raises (-TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
- void **IPSec\_HostAddL** (in **IPSecHostList** HostList) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Adds a host for which DCM requires IPSec to be used in order to communicate over the management network.*

- void **IPSec\_HostDeleteL** (in **IPSecHostList** HostList) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Removes a host for which DCM requires IPSec to be used in order to communicate over the management network.*

- void [IPSec\\_HostChangeL](#) (in [IPSecHostList](#) HostList) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Changes the pre-shared key for a host.*
- void [IPSec\\_HostGetL](#) (out [IPSecHostList](#) HostList) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Returns the list of hosts for which DCM requires IPSec to be used in order to communicate over the management network.*
- void [IPSec\\_SetRequireIPSec](#) (in [IPS\\_Ref\\_t](#) PhysPort, in boolean enabled) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Enables or disables non-IPSec IP data for the given management interface.*
- void [IPSec\\_GetRequireIPSec](#) (in [IPS\\_Ref\\_t](#) PhysPort, out boolean enabled) raises (TimeOut, OutOfRange, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Indicates whether non-IPSec IP data is allowed to go through the given management port.*
- void [SetExternalIpServicesL](#) (in [ExtIpServiceCtrlList](#) Services) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Enable/disable a number of externally visible IP services.*
- void [GetExternalIpServicesL](#) (out [ExtIpServiceCtrlList](#) Services) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieve a list of services that can be enabled/disabled on the mainboard together with the current status of that service.*
- void [GetListeningIpServicesL](#) (in unsigned short Board, out [IpServiceDisplayDataList](#) Listeners) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieves a list of active and listening TCP/IP ports, alike netstat.*
- void [IsScrambler](#) (out boolean bScrambler) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Notifies the client whether it is a scrambler or not.*
- void [SetDeviceAsBackup](#) (in boolean bIsBackup) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set the device (DCM) as backup device or not.*
- void [SetScsSettings](#) (in boolean ScrambleOnlyAV, in boolean CheckElementsAtProvisionTime, in unsigned long ScgAcceptDelay) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set global SCS settings.*
- void [GetScsSettings](#) (out boolean ScrambleOnlyAV, out boolean CheckElementsAtProvisionTime, out unsigned long ScgAcceptDelay) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get global SCS settings.*
- void [SetClearStrongPairingEnforceBit](#) (in boolean bClearStrongPairingEnforcementBit) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set strong pairing enforcement bit clear flag (NDS specific).*
- void [GetClearStrongPairingEnforceBit](#) (out boolean bClearStrongPairingEnforcementBit) raises (-TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get strong pairing enforcement bit clear flag (NDS specific).*
- void [SetJclConfig](#) (in [JclInitialValue\\_t](#) InitialValue, in [JclSystemId\\_t](#) SystemId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set JCL configuration.*
- void [GetJclConfig](#) (out [JclInitialValue\\_t](#) InitialValue, out [JclSystemId\\_t](#) SystemId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get JCL configuration.*

- void [GetInterfaceList](#) (out [IdList](#) EcmgIds, out [IdList](#) EmmgIds, out [IdList](#) EisIds, out [IdList](#) PsigIds, out [IdList](#) MCrptEisIds, out [IdList](#) MCrptPsigIds) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get list of configured proxies.*

- void [GetInterfaceList\\_V2](#) (out [IdList](#) EcmgIds, out [IdList](#) EmmgIds, out [IdList](#) EisIds, out [IdList](#) PsigIds, out [IdList](#) CwgIds) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get list of configured proxies.*

- void [CreateEcmg](#) (out unsigned long EcmgId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create an ECMG proxy.*

- void [DeleteEcmg](#) (in unsigned long EcmgId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Delete an ECMG proxy.*

- void [SetEcmgConfig](#) (in unsigned long EcmgId, in string Name, in [eEcmgType](#) EcmgType, in unsigned short CasId, in unsigned short SubCasId, in [eEcmPidSource](#) EcmPidSource, in unsigned short EcmPidLowerLimit, in unsigned short EcmPidUpperLimit, in [eEcmgChannelIdMode](#) EcmgChannelIdMode) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set ECMG proxy configuration settings.*

- void [GetEcmgConfig](#) (in unsigned long EcmgId, out string Name, out [eEcmgType](#) EcmgType, out unsigned short CasId, out unsigned short SubCasId, out [eEcmPidSource](#) EcmPidSource, out unsigned short EcmPidLowerLimit, out unsigned short EcmPidUpperLimit, out [eEcmgChannelIdMode](#) EcmgChannelIdMode) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get ECMG proxy configuration settings.*

- void [SetEcmgConfig\\_V2](#) (in unsigned long EcmgId, in string Name, in [eEcmgType\\_V2](#) EcmgType, in unsigned short CasId, in unsigned short SubCasId, in [eEcmPidSource](#) EcmPidSource, in unsigned short EcmPidLowerLimit, in unsigned short EcmPidUpperLimit, in [eEcmgChannelIdMode](#) EcmgChannelIdMode) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set ECMG proxy configuration settings.*

- void [GetEcmgConfig\\_V2](#) (in unsigned long EcmgId, out string Name, out [eEcmgType\\_V2](#) EcmgType, out unsigned short CasId, out unsigned short SubCasId, out [eEcmPidSource](#) EcmPidSource, out unsigned short EcmPidLowerLimit, out unsigned short EcmPidUpperLimit, out [eEcmgChannelIdMode](#) EcmgChannelIdMode) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get ECMG proxy configuration settings.*

- void [SetEcmgBackup](#) (in unsigned long EcmgId, in boolean BackupRevertive, in long RevertTime, in boolean HotStandby) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set ECMG backup settings (obsolete!).*

- void [GetEcmgBackup](#) (in unsigned long EcmgId, out boolean BackupRevertive, out long RevertTime, out boolean HotStandby) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get ECMG backup settings (obsolete!).*

- void [RevertNow](#) (in unsigned long EcmgId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

???

- void [GetEcmgStatus](#) (in unsigned long EcmgId, out unsigned long NoOfRequestedStreams, out unsigned long NoOfOpenStreams) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of ECMG proxy.*

- void [GetConnList](#) (in unsigned long EcmgId, out [IdList](#) ConnIds) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get list of available connections (channels) for an ECMG proxy.*

- void [GetEcmgConnList](#) (in unsigned long EcmgId, out [IdList](#) ConnIds) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get list of available connections (channels) for an ECMG proxy.*

- void [CreateEcmgConn](#) (in unsigned long EcmgId, out unsigned long ConnId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create a new connection (channel) for an ECMG proxy.*

- void [DeleteEcmgConn](#) (in unsigned long EcmgId, in unsigned long ConnId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete a connection (channel) for an ECMG proxy.*

- void [SetEcmgConnConfig](#) (in unsigned long EcmgId, in unsigned long ConnId, in unsigned long IpAddress, in unsigned short Port, in unsigned short [ChannelId](#), in long Priority) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set connection (channel) configuration settings.*

- void [GetEcmgConnConfig](#) (in unsigned long EcmgId, in unsigned long ConnId, out unsigned long IpAddress, out unsigned short Port, out unsigned short [ChannelId](#), out long Priority) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Get connection (channel) configuration settings.*

- void [SetEcmgConnConfig\\_V2](#) (in unsigned long EcmgId, in unsigned long ConnId, in string IP-Address, in unsigned short Port, in unsigned short [ChannelId](#), in long Priority) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set connection (channel) configuration settings.*

- void [GetEcmgConnConfig\\_V2](#) (in unsigned long EcmgId, in unsigned long ConnId, out string IP-Address, out unsigned short Port, out unsigned short [ChannelId](#), out long Priority) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get connection (channel) configuration settings.*

- void [GetEcmgConnStatus](#) (in unsigned long EcmgId, in unsigned long ConnId, out [eEcmgConnection-Status](#) EcmgConnectionStatus, out unsigned short UsedChannelId, out unsigned short NoOfOpenStreams) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of connection (channel) in ECMG proxy.*

- void [SetEcmgOverride](#) (in unsigned long EcmgId, in boolean OverrideMaxCompTime, in short -MaxCompTime, in boolean OverrideMinimumCPDuration, in unsigned long MinimumCPDuration, in boolean OverrideTransitionStartDelay, in short TransitionStartDelay, in boolean OverrideTransitionStopDelay, in short TransitionStopDelay, in boolean OverrideStartDelay, in short StartDelay, in boolean OverrideStopDelay, in short StopDelay, in boolean OverrideAcStartDelay, in short AcStartDelay, in boolean OverrideAcStopDelay, in short AcStopDelay) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set ECMG proxy advanced settings (part 1).*

- void [GetEcmgOverride](#) (in unsigned long EcmgId, out boolean OverrideMaxCompTime, out short -MaxCompTime, out boolean OverrideMinimumCPDuration, out unsigned long MinimumCPDuration, out boolean OverrideTransitionStartDelay, out short TransitionStartDelay, out boolean OverrideTransitionStopDelay, out short TransitionStopDelay, out boolean OverrideStartDelay, out short StartDelay, out boolean OverrideStopDelay, out short StopDelay, out boolean OverrideAcStartDelay, out short AcStartDelay, out boolean OverrideAcStopDelay, out short AcStopDelay) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get ECMG proxy advanced settings (part 1).*



- void [SetEcmgOverrideExt](#) (in unsigned long EcmgId, in boolean OverrideMaxStreams, in unsigned short MaxStreams, in boolean OverrideEcmRepPeriod, in unsigned short EcmRepPeriod) raises (-Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set ECMG proxy advanced settings (part 2).*
- void [GetEcmgOverrideExt](#) (in unsigned long EcmgId, out boolean OverrideMaxStreams, out unsigned short MaxStreams, out boolean OverrideEcmRepPeriod, out unsigned short EcmRepPeriod) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Get ECMG proxy advanced settings (part 2).*
- void [GetEcmgDescList](#) (in unsigned long EcmgId, out [IdList](#) DescRuleIds) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Get list of available descriptor rules for ECMG proxy.*
- void [CreateEcmgDescriptor](#) (in unsigned long EcmgId, out unsigned long DescRuleId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Create a new descriptor rule for an ECMG proxy.*
- void [DeleteEcmgDescriptor](#) (in unsigned long EcmgId, in unsigned long DescRuleId) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Delete a descriptor rule for an ECMG proxy.*
- void [SetEcmgDescriptor](#) (in unsigned long EcmgId, in unsigned long DescRuleId, in string DescRuleName, in [eEcmgDescRuleType](#) Type, in [eDescInsertionLevel](#) InsertionLevel, in string DescriptorData, in [EcmIdList](#) EcmIds) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set descriptor rule (on ECMG proxy) configuration settings.*
- void [GetEcmgDescriptor](#) (in unsigned long EcmgId, in unsigned long DescRuleId, out string DescRuleName, out [eEcmgDescRuleType](#) Type, out [eDescInsertionLevel](#) InsertionLevel, out string -DescriptorData, out [EcmIdList](#) EcmIds) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Get descriptor rule (on ECMG proxy) configuration settings.*
- void [SetEcmgDescriptor\\_V2](#) (in unsigned long EcmgId, in unsigned long DescRuleId, in string -DescRuleName, in [eEcmgDescRuleType](#) Type, in [eDescInsertionLevel\\_V2](#) InsertionLevel, in string DescriptorData, in [EcmIdList](#) EcmIds) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set descriptor rule (on ECMG proxy) configuration settings.*
- void [GetEcmgDescriptor\\_V2](#) (in unsigned long EcmgId, in unsigned long DescRuleId, out string DescRuleName, out [eEcmgDescRuleType](#) Type, out [eDescInsertionLevel\\_V2](#) InsertionLevel, out string DescriptorData, out [EcmIdList](#) EcmIds) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Get descriptor rule (on ECMG proxy) configuration settings.*
- void [SetHotEcmgConnection](#) (in unsigned long EcmgId, in boolean bBackupHotStandby) raises (-Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set ECMG hot connection backup setting(override ECMG disconnection).*
- void [GetHotEcmgConnection](#) (in unsigned long EcmgId, out boolean bBackupHotStandby) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Get ECMG hot connection backup setting(override ECMG disconnection).*
- void [SetEcmgNotifyCPEExtension](#) (in unsigned long EcmgId, in boolean NotifyCPEExtension) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set ECMG notify CP extension.*
- void [GetEcmgNotifyCPEExtension](#) (in unsigned long EcmgId, out boolean NotifyCPEExtension) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Get ECMG notify CP extension.*

- void [CreateEmmg](#) (out unsigned long EmmgId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Create an EMMG proxy.*
- void [DeleteEmmg](#) (in unsigned long EmmgId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Delete an EMMG proxy.*
- void [SetEmmgConfig](#) (in unsigned long EmmgId, in string Name, in long ClientId, in [eDataSocket](#) DataSocket, in unsigned short TcpPort, in unsigned short UdpPort, in unsigned long MaxBandwidth, in [eEmmPidSource](#) EmmPidSource, in unsigned short EmmPidLowerLimit, in unsigned short EmmPidUpperLimit, in [eEmmSectionGrouping](#) SectionGrouping) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set EMMG proxy configuration settings.*
- void [GetEmmgConfig](#) (in unsigned long EmmgId, out string Name, out long ClientId, out [eDataSocket](#) DataSocket, out unsigned short TcpPort, out unsigned short UdpPort, out unsigned long MaxBandwidth, out [eEmmPidSource](#) EmmPidSource, out unsigned short EmmPidLowerLimit, out unsigned short EmmPidUpperLimit, out [eEmmSectionGrouping](#) SectionGrouping) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Get EMMG proxy configuration settings.*
- void [GetEmmgStatus](#) (in unsigned long EmmgId, out [eConnectionState](#) EmmgConnectionState, out unsigned long NoOfOpenStreams, out unsigned long CurrentBandwidth, out unsigned long - ConnectionPeer) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)  
*Get status of EMMG proxy.*
- void [GetEmmgStatus\\_V2](#) (in unsigned long EmmgId, out [eConnectionState](#) EmmgConnectionState, out unsigned long NoOfOpenStreams, out unsigned long CurrentBandwidth, out string ConnectionPeer) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Get status of EMMG proxy.*
- void [GetEmmgDescList](#) (in unsigned long EmmgId, out [IdList](#) DescRuleIds) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Get list of available descriptor rules for EMMG proxy.*
- void [CreateEmmgDescriptor](#) (in unsigned long EmmgId, out unsigned long DescRuleId) raises (-TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Create a new descriptor rule for an EMMG proxy.*
- void [DeleteEmmgDescriptor](#) (in unsigned long EmmgId, in unsigned long DescRuleId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Delete a descriptor rule for an EMMG proxy.*
- void [SetEmmgDescriptor](#) (in unsigned long EmmgId, in unsigned long DescRuleId, in string DescRuleName, in [eEmmgDescRuleType](#) Type, in string DescriptorData, in [DataIdList](#) DataIds) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)  
*Set descriptor rule (on EMMG proxy) configuration settings.*
- void [GetEmmgDescriptor](#) (in unsigned long EmmgId, in unsigned long DescRuleId, out string - DescRuleName, out [eEmmgDescRuleType](#) Type, out string DescriptorData, out [DataIdList](#) DataIds) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Get descriptor rule (on EMMG proxy) configuration settings.*
- void [CreateEis](#) (out unsigned long EisId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Create an EIS proxy.*
- void [DeleteEis](#) (in unsigned long EisId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)  
*Delete an EIS proxy.*

- void [CreateMCryptEis](#) (out unsigned long EisId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create a MCrypt EIS proxy.*

- void [DeleteMCryptEis](#) (in unsigned long EisId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete a MCrypt EIS proxy.*

- void [SetEisConfig](#) (in unsigned long EisId, in string Name, in [eEisType](#) EisType, in unsigned short TcpPort, in boolean OverruleRecommendedCpDuration, in unsigned long RecommendedCpDuration) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set EIS proxy configuration settings.*

- void [GetEisConfig](#) (in unsigned long EisId, out string Name, out [eEisType](#) EisType, out unsigned short TcpPort, out boolean OverruleRecommendedCpDuration, out unsigned long RecommendedCpDuration) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get EIS proxy configuration settings.*

- void [GetEisStatus](#) (in unsigned long EisId, out [eConnectionState](#) EisConnectionState, out unsigned long ConnectionPeer) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Get status of EIS proxy.*

- void [GetEisStatus\\_V2](#) (in unsigned long EisId, out [eConnectionState](#) EisConnectionState, out string ConnectionPeer) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of EIS proxy.*

- void [CreatePsig](#) (out unsigned long PsigId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create a PSIG proxy.*

- void [DeletePsig](#) (in unsigned long PsigId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete a PSIG proxy.*

- void [CreateMCryptPsig](#) (out unsigned long PsigId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create a MCrypt PSIG proxy.*

- void [DeleteMCryptPsig](#) (in unsigned long PsigId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete a MCrypt PSIG proxy.*

- void [SetPsigConfig](#) (in unsigned long PsigId, in string Name, in [ePsigType](#) PsigType, in unsigned short TcpPort, in unsigned long MaxBandwidth) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set PSIG proxy configuration settings.*

- void [GetPsigConfig](#) (in unsigned long PsigId, out string Name, out [ePsigType](#) PsigType, out unsigned short TcpPort, out unsigned long MaxBandwidth) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Set PSIG proxy configuration settings.*

- void [SetPsigConfig2](#) (in unsigned long PsigId, in string Name, in [ePsigType](#) PsigType, in unsigned short TcpPort, in unsigned long MaxBandwidth, in boolean DoNotModify) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set PSIG proxy configuration settings.*



- void [GetPsigConfig2](#) (in unsigned long PsigId, out string Name, out ePsigType PsigType, out unsigned short TcpPort, out unsigned long MaxBandwidth, out boolean DoNotModify) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Set PSIG proxy configuration settings.*

- void [SetPsigConfig3](#) (in unsigned long PsigId, in string Name, in ePsigType PsigType, in unsigned short TcpPort, in unsigned long MaxBandwidth, in boolean DoNotModify, in boolean AllowMultipleNITa) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set PSIG proxy configuration settings.*

- void [GetPsigConfig3](#) (in unsigned long PsigId, out string Name, out ePsigType PsigType, out unsigned short TcpPort, out unsigned long MaxBandwidth, out boolean DoNotModify, out boolean - MultipleNITa) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get PSIG proxy configuration settings.*

- void [GetPsigStatus](#) (in unsigned long PsigId, out eConnectionState PsigConnectionState, out unsigned long NoOfStreams, out unsigned long CurrentBandwidth, out unsigned long ConnectionPeer) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Get status of PSIG proxy.*

- void [GetPsigStatus\\_V2](#) (in unsigned long PsigId, out eConnectionState PsigConnectionState, out unsigned long NoOfStreams, out unsigned long CurrentBandwidth, out string ConnectionPeer) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of PSIG proxy.*

- void [CreateCwg](#) (out unsigned long CwgId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create an CWG proxy.*

- void [DeleteCwg](#) (in unsigned long CwgId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Delete an CWG proxy.*

- void [SetCwgConfig](#) (in unsigned long CwgId, in string Name, in eCwgType Type, in unsigned short CasId, in unsigned short SubCasId, in eCwgChannelIdMode ChannelIdMode) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set CWG proxy configuration settings.*

- void [GetCwgConfig](#) (in unsigned long CwgId, out string Name, out eCwgType Type, out unsigned short CasId, out unsigned short SubCasId, out eCwgChannelIdMode ChannelIdMode) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get CWG proxy configuration settings.*

- void [GetCwgStatus](#) (in unsigned long CwgId, out unsigned long NoOfRequestedStreams, out unsigned long NoOfOpenStreams) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of CWG proxy.*

- void [GetCwgConnList](#) (in unsigned long CwgId, out IdList ConnIds) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get list of available connections (channels) for an CWG proxy.*

- void [CreateCwgConn](#) (in unsigned long CwgId, out unsigned long ConnId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Create a new connection (channel) for an CWG proxy.*

- void [DeleteCwgConn](#) (in unsigned long CwgId, in unsigned long ConnId) raises (TimeOut, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Delete a connection (channel) for an CWG proxy.*

- void [SetCwgConnConfig](#) (in unsigned long CwgId, in unsigned long ConnId, in unsigned long - IpAddress, in unsigned short Port, in unsigned short [ChannelId](#), in long Priority) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set connection (channel) configuration settings.*

- void [GetCwgConnConfig](#) (in unsigned long CwgId, in unsigned long ConnId, out unsigned long Ip-Address, out unsigned short Port, out unsigned short [ChannelId](#), out long Priority) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Get connection (channel) configuration settings.*

- void [SetCwgConnConfig\\_V2](#) (in unsigned long CwgId, in unsigned long ConnId, in string Ip-Address, in unsigned short Port, in unsigned short [ChannelId](#), in long Priority) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set connection (channel) configuration settings.*

- void [GetCwgConnConfig\\_V2](#) (in unsigned long CwgId, in unsigned long ConnId, out string Ip-Address, out unsigned short Port, out unsigned short [ChannelId](#), out long Priority) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get connection (channel) configuration settings.*

- void [GetCwgConnStatus](#) (in unsigned long CwgId, in unsigned long ConnId, out [eCwgConnection-Status](#) ConnectionStatus, out unsigned short UsedChannelId, out unsigned short NoOfOpenStreams) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get status of connection (channel) in CWG proxy.*

- void [SetCwgOverride](#) (in unsigned long CwgId, in boolean OverrideMaxCompTime, in short Max-CompTime, in boolean OverrideMaxStreams, in unsigned short MaxStreams) raises (Timeout, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported, OutOfRange)

*Set CWG proxy advanced settings.*

- void [GetCwgOverride](#) (in unsigned long CwgId, out boolean OverrideMaxCompTime, out short MaxCompTime, out boolean OverrideMaxStreams, out unsigned short MaxStreams) raises (Time-Out, OpNotSucceeded, InvalidSelection, OpNotAllowed, OpNotSupported)

*Get CWG proxy advanced settings.*

- void [SCR\\_SetEncryptionAlgorithm](#) (in unsigned short BoardNr, in [enEncryptionAlgorithm](#) eEncryption-Algorithm) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the encryption algorithm.*

- void [SCR\\_GetEncryptionAlgorithm](#) (in unsigned short BoardNr, out [enEncryptionAlgorithm](#) eEncryption-Algorithm) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the encryption algorithm.*

- void [SCR\\_SetScramblingAction](#) (in unsigned short BoardNr, in [enScramblingAction](#) eScrambling-Action) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the scrambling/descrambling mode.*

- void [SCR\\_GetScramblingAction](#) (in unsigned short BoardNr, out [enScramblingAction](#) eScrambling-Action) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the scrambling/descrambling mode.*

- void [SCR\\_SetDefaultScramblingMode](#) (in unsigned short BoardNr, in [enScramblingMode](#) eScrambling-Mode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default scrambling mode.*

- void [SCR\\_GetDefaultScramblingMode](#) (in unsigned short BoardNr, out [enScramblingMode](#) eScrambling-Mode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Get the default scrambling mode.*

- void [SCR\\_SetDefaultSessionWord](#) (in unsigned short BoardNr, in [ByteStream](#) SessionWord) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Set the default session word.*

- void [SCR\\_GetDefaultSessionWord](#) (in unsigned short BoardNr, out [ByteStream](#) SessionWord, out boolean FollowDefault) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the default session word.*
- void [SCR\\_SetDefaultParityBit](#) (in unsigned short BoardNr, in octet ParityBit) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the default parity bit.*
- void [SCR\\_GetDefaultParityBit](#) (in unsigned short BoardNr, out octet ParityBit) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the default parity bit.*
- void [SCR\\_SetDefaultOperatingMode](#) (in unsigned short BoardNr, in [enOperatingMode\\_t](#) enOperatingMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the default operating mode.*
- void [SCR\\_GetDefaultOperatingMode](#) (in unsigned short BoardNr, out [enOperatingMode\\_t](#) enOperatingMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the default operating mode.*
- void [SCR\\_SetScramblingMode](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [enScramblingMode](#) eScramblingMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the scrambling mode on TS.*
- void [SCR\\_GetScramblingMode](#) (in [IPS\\_RefTS\\_t](#) RefTS, out [enScramblingMode](#) eScramblingMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the scrambling mode on TS.*
- void [SCR\\_SetSessionWord](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [ByteStream](#) SessionWord) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the session word on TS.*
- void [SCR\\_GetSessionWord](#) (in [IPS\\_RefTS\\_t](#) RefTS, out [ByteStream](#) SessionWord, out boolean - FollowDefault) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the session word on TS.*
- void [SCR\\_SetParityBit](#) (in [IPS\\_RefTS\\_t](#) RefTS, in octet ParityBit) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the parity bit on TS.*
- void [SCR\\_GetParityBit](#) (in [IPS\\_RefTS\\_t](#) RefTS, out octet ParityBit) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the parity bit on TS.*
- void [SCR\\_SetOperatingMode](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [enOperatingMode\\_t](#) enOperatingMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the operating mode on TS.*
- void [SCR\\_GetOperatingMode](#) (in [IPS\\_RefTS\\_t](#) RefTS, out [enOperatingMode\\_t](#) enOperatingMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the operating mode on TS.*
- void [SCR\\_StartBissScrambling](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [SidList\\_t](#) lstSIDs, in [PidList\\_t](#) lstPIDs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Start BISS scrambling/descrambling on a TS.*
- void [SCR\\_StopBissScrambling](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [SidList\\_t](#) lstSIDs, in [PidList\\_t](#) lstPIDs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Stop BISS scrambling/descrambling on a TS.*
- void [SCR\\_GetBissScrambled](#) (in [IPS\\_RefTS\\_t](#) RefTS, out [SidList\\_t](#) lstSIDs, out [PidList\\_t](#) lstPIDs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get BISS scrambled/descrambled services on a TS.*

- void [SCR\\_SetDefaultScramblingMode\\_V2](#) (in unsigned short BoardNr, in [enScramblingMode\\_V2](#) eScramblingMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the default scrambling mode.*
- void [SCR\\_GetDefaultScramblingMode\\_V2](#) (in unsigned short BoardNr, out [enScramblingMode\\_V2](#) eScramblingMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the default scrambling mode.*
- void [SCR\\_SetDefaultScramblingEnabled](#) (in unsigned short BoardNr, in boolean bEnable) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Default enable scrambling behavior for services.*
- void [SCR\\_GetDefaultScramblingEnabled](#) (in unsigned short BoardNr, out boolean bEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get default enable scrambling behavior for services.*
- void [SCR\\_SetScramblingMode\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, in [enScramblingMode\\_V2](#) eScramblingMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the scrambling mode on TS.*
- void [SCR\\_GetScramblingMode\\_V2](#) (in [IPS\\_RefTS\\_t](#) RefTS, out [enScramblingMode\\_V2](#) eScramblingMode) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the scrambling mode on TS.*
- void [SCR\\_GetTierList](#) (in unsigned short BoardNr, out [IdList](#) TierIds) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get list of configured tiers.*
- void [SCR\\_CreateTier](#) (in unsigned short BoardNr, out unsigned long TierId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Create tier.*
- void [SCR\\_DeleteTier](#) (in unsigned short BoardNr, in unsigned long TierId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Delete tier.*
- void [SCR\\_SetTierData](#) (in unsigned short BoardNr, in [TierData\\_t](#) TierData) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Configure access criteria for tier.*
- void [SCR\\_GetTierData](#) (in unsigned short BoardNr, in unsigned long TierId, out [TierData\\_t](#) TierData) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get configured access criteria for tier.*
- void [SCR\\_SetDefaultTier](#) (in unsigned short BoardNr, in unsigned long TierId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set the default tier.*
- void [SCR\\_GetDefaultTier](#) (in unsigned short BoardNr, out unsigned long TierId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the default tier.*
- void [SCR\\_SetTier](#) (in [IPS\\_RefTS\\_t](#) RefTS, in unsigned long TierId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set tier for TS.*
- void [SCR\\_GetTier](#) (in [IPS\\_RefTS\\_t](#) RefTS, out unsigned long TierId) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get tier for TS.*
- void [SCR\\_SetScramblingEnabled](#) (in [IPS\\_Service\\_t](#) RefSvc, in boolean bEnable) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Enable scrambling for service.*

- void [SCR\\_GetScramblingEnabled](#) (in [IPS\\_Service\\_t](#) RefSvc, out boolean bEnabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get scrambling enabled status for service.*
- void [DescrResourceGetL](#) (in unsigned short BoardNr, out [DescrResource\\_List\\_t](#) DescrResourceList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Retrieve the list of available descrambling resources for a given board.*
- void [DescrResourceSetL](#) (in unsigned short BoardNr, in [DescrResource\\_List\\_t](#) ConfigList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Configure the name of one or more descrambling resources.*
- void [DescrServiceAddL](#) (in [IPS\\_Ref\\_t](#) DescramblerRef, in [IPS\\_RefSvc\\_List\\_t](#) InputRefSvcList, out [IPS\\_RefSvc\\_List\\_t](#) CreatedServicesL) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add a list of services to a descrambling resource.*
- void [DescrServiceDeleteL](#) (in unsigned short BoardNr, in [IPS\\_RefSvc\\_List\\_t](#) RefSvcList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Removes a list of services from a descrambling resource.*
- void [DescrServiceGetL](#) (in [IPS\\_Ref\\_t](#) DescramblerRef, in [IPS\\_RefSvc\\_List\\_t](#) RefSvcList, out [DescrServiceData\\_List\\_t](#) ServiceList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the list of services on a descrambling resource.*
- void [DescrServiceSetL](#) (in unsigned short BoardNr, in [DescrServiceData\\_List\\_t](#) ServiceDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set service details of services on a descrambler.*
- void [DescrTS\\_Add](#) (in [IPS\\_Ref\\_t](#) DescramblerRef, in [IPS\\_RefTS\\_t](#) RefTsIn, out [IPS\\_RefTS\\_t](#) CreatedTs) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Add a TS to a descrambler.*
- void [DescrTS\\_DeleteL](#) (in unsigned short BoardNr, in [IPS\\_RefTS\\_List\\_t](#) RefTsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Remove one or more TS's from a descrambler.*
- void [DescrTS\\_GetL](#) (in unsigned short BoardNr, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [DescrTS\\_Data\\_List\\_t](#) TsDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Get the list of transport streams passed to a descrambler board.*
- void [DescrTS\\_GetL\\_V2](#) (in unsigned short BoardNr, in [IPS\\_RefTS\\_List\\_t](#) RefTsList, out [DescrTS\\_Data\\_List\\_V2\\_t](#) TsDataList) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported)  
*Get the list of transport streams passed to a descrambler board.*
- void [DescrTS\\_SetL](#) (in unsigned short BoardNr, in [DescrTS\\_Data\\_List\\_t](#) TsDataList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported)  
*Set TS details of one or more TS's on a descrambler.*
- void [DescrTS\\_SetL\\_V2](#) (in unsigned short BoardNr, in [DescrTS\\_Data\\_List\\_V2\\_t](#) TsDataList) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported)  
*Set TS details of one or more TS's on a descrambler.*
- void [DescrEMM\\_AddL](#) (in [IPS\\_Ref\\_t](#) DescramblerRef, in [IPS\\_RefPidList\\_t](#) EmmList) raises (TimeOut, OpNotSucceeded, OpNotSupported, OpNotAllowed)  
*Add one or more EMM to a descrambler.*
- void [DescrEMM\\_DeleteL](#) (in unsigned short BoardNr, in [IPS\\_RefPidList\\_t](#) EmmList) raises (TimeOut, OpNotSucceeded, OpNotSupported, OpNotAllowed)  
*Deletes one or more EMMs routed to a CAM.*
- void [DescrEMM\\_GetL](#) (in [IPS\\_Ref\\_t](#) DescramblerRef, out [IPS\\_RefPidList\\_t](#) EmmList) raises (TimeOut, OpNotSucceeded, OpNotSupported, OpNotAllowed)

*Retrieve the list of EMMs routed to a CAM.*

- void [DescrSvcConfigSetL](#) (in unsigned short BoardNr, in [DescrSvcConfig\\_List\\_t](#) ConfigList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Start descrambling on services / components on the specified virtual TS.*

- void [DescrSvcConfigGetL](#) (in [IPS\\_Ref\\_t](#) DescramblerRef, in [IPS\\_RefSvc\\_List\\_t](#) SvcFilter, out [DescrSvcConfig\\_List\\_t](#) ConfigList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Returns the services / PIDs for which descrambling is configured.*

- void [DescrCAM\\_CfgSetL](#) (in unsigned short BoardNr, in [DescrCAM\\_Cfg\\_List\\_t](#) ConfigList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded, LicenseError)

*Configures one or more CAMs.*

- void [DescrCAM\\_CfgSetL\\_V2](#) (in unsigned short BoardNr, in [DescrCAM\\_Cfg\\_List\\_V2\\_t](#) ConfigList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded, LicenseError)

*Configures one or more CAMs.*

- void [DescrCAM\\_CfgGetL](#) (in [IPS\\_Ref\\_t](#) CamRef, out [DescrCAM\\_Cfg\\_List\\_t](#) ConfigList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieves the configuration of one or more CAMs.*

- void [DescrCAM\\_CfgGetL\\_V2](#) (in [IPS\\_Ref\\_t](#) CamRef, out [DescrCAM\\_Cfg\\_List\\_V2\\_t](#) ConfigList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieves the configuration of one or more CAMs.*

- void [DescrCAM\\_BackupCfg\\_SetL](#) (in unsigned short BoardNr, in [DescrCAM\\_BackupCfg\\_List\\_t](#) BackupConfigL) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Set backup configuration for one or more CAM pairs.*

- void [DescrCAM\\_BackupCfg\\_GetL](#) (in unsigned short BoardNr, out [DescrCAM\\_BackupCfg\\_List\\_t](#) BackupConfigL) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieve the CAM backup configuration for the given board.*

- void [DescrCAM\\_Status\\_GetL](#) (in [IPS\\_Ref\\_t](#) CamRef, out [DescrCAM\\_Status\\_List\\_t](#) StatusList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieves the CAM status and other information.*

- void [DescrCAM\\_CI\\_MMI\\_CLI\\_Cmd](#) (in [IPS\\_Ref\\_t](#) CamRef, in string Request, out string Response) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Sends a command to the command line interface of a CAM.*

- void [DescrCAM\\_Reset](#) (in [IPS\\_Ref\\_t](#) CamRef) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Resets the CAM.*

- void [DescrBISS\\_CfgSetL](#) (in unsigned short BoardNr, in [DescrBISS\\_Cfg\\_List\\_t](#) BissConfigList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Configure BISS descrambling on the DRD board.*

- void [DescrBISS\\_CfgGetL](#) (in [IPS\\_Ref\\_t](#) BissRef, in [IPS\\_RefTS\\_List\\_t](#) RefTsFilter, out [DescrBISS\\_Cfg\\_List\\_t](#) BissConfigList) raises (Timeout, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Retrieve BISS descrambling configuration on the DRD board for one or more transport streams.*

- void [CreateOutputSI\\_Tables](#) (in [IPS\\_RefTS\\_t](#) OutTs, in [TableGenerationDataList\\_t](#) TableGenerationDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)

*Create a list of OutputSiSubTables on one OutTs.*

- void [DeleteOutputSI\\_Tables](#) (in [IPS\\_RefTS\\_t](#) OutTs, in [TableKeys\\_List\\_t](#) TableRefList) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*delete a list of OutputSiSubTable on one OutTs.*



- [IPS\\_OutputTS\\_List\\_V2\\_t](#) [IPS\\_OutTS\\_GetFilteredL\\_V3](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList, in boolean ScrambledOnly, in [OperatingMode\\_List\\_t](#) OperatingModes) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
 

*Get a filtered list of outgoing transport streams and their parameters.*
- void [CreateEas](#) (out unsigned long EasId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Create an EAS proxy.*
- void [DeleteEas](#) (in unsigned long EasId) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Delete an EAS proxy.*
- void [SetEasConfig](#) (in [EasConfig\\_t](#) EasConfig) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Set EAS proxy configuration settings for one EAS proxy.*
- void [GetEasConfigL](#) (in [IdList](#) EasIds, out [EasConfigList\\_t](#) EasConfigList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get EAS proxy configuration settings.*
- void [ASI\\_SFN\\_GetGpsSettings](#) (in unsigned short BoardNr, out [GPS\\_Settings\\_t](#) GpsSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get the configuration of the GPS ports (10MHz and 1PPS)*
- void [ASI\\_SFN\\_SetGpsSettings](#) (in unsigned short BoardNr, in [GPS\\_Settings\\_t](#) GpsSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Set the configuration of the GPS ports (10MHz and 1PPS)*
- void [ASI\\_SFN\\_GetGpsStatus](#) (in unsigned short BoardNr, out [GPS\\_Status\\_t](#) GpsStatus) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get the status of the GPS ports (10MHz and 1PPS)*
- void [ASI\\_SFN\\_GetMipSettings](#) (in [IPS\\_RefTS\\_t](#) RefTsOut, out [MIP\\_Settings\\_t](#) MipSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get the parameters of a MIP packet.*
- void [ASI\\_SFN\\_SetMipSettings](#) (in [IPS\\_RefTS\\_t](#) RefTsOut, in [MIP\\_Settings\\_t](#) MipSettings) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Set the parameters of a MIP packet.*
- void [ASI\\_SFN\\_GetSfnMode](#) (in [IPS\\_RefTS\\_t](#) RefTsOut, out [enSFN\\_Mode](#) eSFN\_Mode) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)
 

*Get the SFN mode (SFN enabled/disabled)*
- void [ASI\\_SFN\\_SetSfnMode](#) (in [IPS\\_RefTS\\_t](#) RefTsOut, in [enSFN\\_Mode](#) eSFN\_Mode) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError)
 

*Set the SFN mode (Enable/disable SFN)*
- void [GetPacketIndexerSettings](#) (in [IPS\\_RefTS\\_t](#) RefTsOut, out [PacketIndexerSettings\\_t](#) PacketIndexerSettings) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*Get the Packet Indexer Settings of an output TS.*
- void [SetPacketIndexerSettings](#) (in [IPS\\_RefTS\\_t](#) RefTsOut, in [PacketIndexerSettings\\_t](#) PacketIndexerSettings) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*Set the Packet Indexer Settings of an output TS.*
- void [GetPacketIndexerId](#) (in unsigned short BoardNr, out unsigned short PacketIndexerId) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*Get the Packet Indexer Id of an ASI board.*
- void [SetPacketIndexerId](#) (in unsigned short BoardNr, in unsigned short PacketIndexerId) raises (-Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)
 

*Set the Packet Indexer Id of an ASI board.*

- [InTS\\_IPI\\_Settings\\_List\\_t InTS\\_IPI\\_SettingsGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) - RefTsList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the IndexPacketInterpreter settings of one or more input TS.*

- void [InTS\\_IPI\\_SettingsSetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [InTS\\_IPI\\_Settings\\_List\\_t](#) InTS\_IPI\_Settings\_List) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Change the IndexPacketInterpreter settings for one or more existing incoming TS.*

- void [InTS\\_IPI\\_SettingsDelL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefTsList) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Revert the IndexPacketInterpreter setting to default for a list of input TSs.*

- void [SetDefaultIPI\\_Settings](#) (in unsigned short SlotNbr, in boolean IPI\_Enabled) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Set default IndexPacketInterpreter setting for new input TS.*

- void [GetDefaultIPI\\_Settings](#) (in unsigned short SlotNbr, out boolean IPI\_Enabled) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get current default IndexPacketInterpreter setting.*

- void [GetTsPacketIndexerId](#) (in [IPS\\_RefTS\\_t](#) RefTsIn, out [TsPacketIndexerID\\_Data\\_t](#) TsPacketIndexerID\_Data) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the Packet Indexer Id of an input TS.*

- void [ASI\\_SFN\\_MKII\\_GetBoardMode](#) (in unsigned short BoardNr, out [enASI\\_SFN\\_MKII\\_Board\\_Mode](#) BoardMode) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get ASI SFN MKII board mode.*

- void [ASI\\_SFN\\_MKII\\_SetBoardMode](#) (in unsigned short BoardNr, in [enASI\\_SFN\\_MKII\\_Board\\_Mode](#) BoardMode) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Set ASI SFN MKII board mode.*

- void [ASI\\_SFN\\_MKII\\_GetTsOutputMode](#) (in [IPS\\_RefTS\\_t](#) RefTsOut, out [ASI\\_SFN\\_MKII\\_TS\\_Output\\_Mode\\_t](#) TS\_Mode) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the TS output mode.*

- void [ASI\\_SFN\\_MKII\\_SetTsOutputMode](#) (in [IPS\\_RefTS\\_t](#) RefTsOut, in [ASI\\_SFN\\_MKII\\_TS\\_Output\\_Mode\\_t](#) TS\_Mode) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Set the TS output mode.*

- void [ASI\\_SFN\\_MKII\\_GetMasterMuxId](#) (in unsigned short BoardNr, out unsigned short MasterMuxId) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the MasterMux ID of an ASI SFN MKII board.*

- void [ASI\\_SFN\\_MKII\\_SetMasterMuxId](#) (in unsigned short BoardNr, in unsigned short MasterMuxId) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

*Set the MasterMux ID of an ASI SFN MKII board.*

- void [ASI\\_SFN\\_MKII\\_GetRDCS\\_Settings](#) (in [IPS\\_RefTS\\_t](#) RefTsOut, out [ASI\\_SFN\\_MKII\\_RDCS\\_Settings\\_t](#) RDCS\_Settings) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported)

*Get the RDCS Settings of an output TS.*

- void [ASI\\_SFN\\_MKII\\_SetRDCS\\_Settings](#) (in [IPS\\_RefTS\\_t](#) RefTsOut, in [ASI\\_SFN\\_MKII\\_RDCS\\_Settings\\_t](#) RDCS\_Settings) raises (TimeOut, OperationFailed, OpNotAllowed, OpNotSupported)

*Set the RDCS Settings of an output TS.*



- void [BoardCfgSetSpeedMode](#) (in unsigned short SlotNumber, in [eGbeSpeedMode\\_t](#) SpeedMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

*Set Gbe port pair speed to be used.*

- void [BoardCfgGetSpeedMode](#) (in unsigned short SlotNumber, out [eGbeSpeedMode\\_t](#) SpeedMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the Gbe port pair speed that is currently used.*

- void [HotSwapIO\\_Board](#) (in unsigned short BoardNr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Prepare a board for hot swap.*

- void [SetMonitoredPort](#) (in unsigned short SlotNumber, in unsigned short SdiPortNbr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Mirror an (SDI) port, so that it can be monitored.*

- void [GetMonitoredPort](#) (in unsigned short SlotNumber, out unsigned short PortNbr) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get Mirror an (SDI) port, so that it can be monitored.*

- void [SetVideoClockSync](#) (in unsigned short SlotNumber, in boolean bUseExtRef) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Indicate if the external clock reference input should be used or not to synchronize the output video or audio signals on.*

- void [GetVideoClockSync](#) (in unsigned short SlotNumber, out boolean bUseExtRef) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Check if the external clock reference input is used or not to synchronize the output video or audio signals on.*

- void [SetStreamClockSync](#) (in unsigned short SlotNumber, in boolean bUseExtRef) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Indicate if the external clock reference input should be used or not to synchronize the output video or audio signals on.*

- void [GetStreamClockSync](#) (in unsigned short SlotNumber, out boolean bUseExtRef) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Check if the external clock reference input is used or not to synchronize the output video or audio signals on.*

- void [SetSDI\\_NoStreamMode](#) (in unsigned short SlotNumber, in [eSDI\\_NoStreamMode\\_t](#) Mode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Specify output SDI or AES no stream mode.*

- void [GetSDI\\_NoStreamMode](#) (in unsigned short SlotNumber, out [eSDI\\_NoStreamMode\\_t](#) Mode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the output SDI no stream mode.*

- void [DCG\\_GetBoardMode](#) (in unsigned short BoardNr, out [enDCG\\_BoardMode\\_t](#) enBoardMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the Gateway board mode.*

- void [DCG\\_SetBoardMode](#) (in unsigned short BoardNr, in [enDCG\\_BoardMode\\_t](#) enBoardMode) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set the gateway board mode.*

- void [DCG\\_SetMValue](#) (in unsigned short BoardNr, in [enMValue\\_t](#) enMValue) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

- [enMValue\\_t](#) [DCG\\_GetMValue](#) (in unsigned short BoardNr) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

- void [SDI\\_OutTS\\_ChangeL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_OutputTS\\_List\\_t](#) OutputTSList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

*Change the parameters of one or more existing outgoing SDI or AES streams.*

- [DCG\\_OutputTS\\_List\\_t SDI\\_OutTS\\_GetL](#) (in [IPS\\_Ref\\_t](#) RefPhys) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of outgoing SDI or AES streams and their parameters.*

- void [OutputRTP\\_StreamAddL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in unsigned long NbrOutTS, out [DCG\\_OutputRTP\\_StreamList\\_t](#) OutputStreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Create a number of output RTP streams on given Slot and Port based on the defined defaults (DCG\_OutDefaultsSet(), DCG\_OutDefaultsGet()).*

- void [OutputRTP\\_StreamChangeL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_OutputRTP\\_StreamList\\_t](#) OutputStreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

*Change the parameters of one or more existing outgoing RTP streams.*

- void [OutputRTP\\_V2\\_StreamChangeL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_OutputRTP\\_V2\\_StreamList\\_t](#) OutputStreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

*This function is similar to [OutputRTP\\_StreamChangeL\(\)](#) above, except for the list of elements returned is not a list of [DCG\\_OutputRTP\\_Stream\\_t](#) but a list of [DCG\\_OutputRTP\\_V2\\_Stream\\_t](#) which differs in that the latter does not contain the destination UDP socket, but a contain an enum saying whether the associated GbE ports with this OutRTP is a pair or individual port.*

- [DCG\\_OutputRTP\\_StreamList\\_t OutputRTP\\_StreamGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) - RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of outgoing RTP streams and their parameters.*

- [DCG\\_OutputRTP\\_V2\\_StreamList\\_t OutputRTP\\_V2\\_StreamGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of outgoing RTP streams and their parameters.*

- void [OutputGBE\\_ChangeL](#) (in unsigned short Board, in [DCG\\_OutputGBE\\_List\\_t](#) OutputGBE\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

*Change the parameters of one or more existing outgoing GBE streams.*

- [DCG\\_OutputGBE\\_List\\_t OutputGBE\\_GetL](#) (in unsigned short Board, in [IPS\\_RefTS\\_List\\_t](#) RefTsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of outgoing GBE streams and their parameters.*

- void [OutputFecGBE\\_ChangeL](#) (in unsigned short Board, in [DCG\\_OutputFecGBE\\_List\\_t](#) OutputFecGBE\_List) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

*Change the parameters of one or more existing outgoing FEC GBE streams.*

- [DCG\\_OutputFecGBE\\_List\\_t OutputFecGBE\\_GetL](#) (in unsigned short Board, in [IPS\\_RefTS\\_List\\_t](#) RefTsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of outgoing GBE streams and their parameters.*

- [DCG\\_InputTS\\_List\\_t SDI\\_InTS\\_GetL](#) (in [IPS\\_Ref\\_t](#) PhysRef) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of incoming SDI streams.*

- void [SDI\\_InTS\\_ChangeL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_InputTS\\_List\\_t](#) InputTSList) raises (-Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Change the parameters of one or more existing input SDI streams.*

- void [InputRTP\\_StreamChangeL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_InputRTP\\_StreamList\\_t](#) InputStreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

*Change the parameters of one or more existing input RTP streams.*

- void [InputRTP\\_StreamChangeL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_InputRTP\\_StreamList\\_V2\\_t](#) InputStreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)
- void [InputRTP\\_StreamChangeL\\_V3](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_InputRTP\\_StreamList\\_V3\\_t](#) InputStreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OperationFailed)

*Similar to the above, except the genlock value is specified in units of time.*

- [DCG\\_InputRTP\\_StreamList\\_t](#) [InputRTP\\_StreamGetL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of input RTP streams and their parameters.*

- [DCG\\_InputRTP\\_StreamList\\_V2\\_t](#) [InputRTP\\_StreamGetL\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
- [DCG\\_InputRTP\\_StreamList\\_V3\\_t](#) [InputRTP\\_StreamGetL\\_V3](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Similar to the above, except the genlock value is specified in units of time.*

- void [DCG\\_ApplyRoutings](#) (in unsigned short SlotNumber, in [RoutingDataList\\_t](#) RoutingDataList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OutOfRange, OperationFailed)

*Add a routing source to a number of output transport streams.*

- void [DCG\\_InTS\\_DeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete a list of input TSs.*

- void [DCG\\_OutTS\\_DeleteL](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [IPS\\_RefTS\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Delete a list of output TSs.*

- void [GetVideoSignalInfos](#) (in unsigned short SlotNumber, in [IPS\\_RefTS\\_List\\_t](#) RefList, out [VideoSignalInfoList\\_t](#) SignalInfoList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the (video) signal information from an input SDI signal or from an input RTP transport stream.*

- void [GetEndToEndDelaysL](#) (in unsigned short SlotNumber, in [IPS\\_RefTS\\_List\\_t](#) RefList, out [End2End\\_DelayList\\_t](#) DelayList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the end to end delay that was introduced for an output transport stream.*

- void [Pair3D\\_AddL](#) (in unsigned short Board, in [DCG\\_3D\\_pair\\_List\\_t](#) l) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Add 3D pairs, given in a list.*

- void [Out\\_Pair3D\\_AddL](#) (in unsigned short Board, in [DCG\\_3D\\_pair\\_List\\_t](#) l) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
- void [In\\_Pair3D\\_AddL](#) (in unsigned short Board, in [DCG\\_3D\\_pair\\_List\\_t](#) l) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
- void [Pair3D\\_DeleteL](#) (in unsigned short Board, in [DCG\\_3D\\_pair\\_List\\_t](#) l) raises (Timeout, OpNotSucceeded, OpNotAllowed, OperationFailed)

*Delete 3D pairs, given in a list.*

- void [Out\\_Pair3D\\_DeleteL](#) (in unsigned short Board, in [DCG\\_3D\\_pair\\_List\\_t](#) l) raises (Timeout, OpNotSucceeded, OpNotAllowed, OperationFailed)
- void [In\\_Pair3D\\_DeleteL](#) (in unsigned short Board, in [DCG\\_3D\\_pair\\_List\\_t](#) l) raises (Timeout, OpNotSucceeded, OpNotAllowed, OperationFailed)

- [DCG\\_3D\\_pair\\_List\\_t Pair3D\\_GetL](#) (in unsigned short Board) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get a list of 3d paired SDI streams input or output.*
- [DCG\\_3D\\_pair\\_List\\_t Out\\_Pair3D\\_GetL](#) (in unsigned short Board) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
- [DCG\\_3D\\_pair\\_List\\_t In\\_Pair3D\\_GetL](#) (in unsigned short Board) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)
- void [DCG\\_ASIG\\_Set\\_3D](#) (in unsigned short Board, in boolean enabled) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Set stream 1 and 2 to 3D paired on an ASI board.*
- boolean [DCG\\_ASIG\\_Get\\_3D](#) (in unsigned short Board) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Get whether stream 1 and 2 is 3D paired on an ASI board.*
- void [GetSDI\\_GeneratorConfigs](#) (in unsigned short BoardNbr, in [IPS\\_RefTS\\_List\\_t](#) RefList, out [DCG\\_G\\_GeneratorConfigList\\_t](#) ConfigList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Gets the list of available SDI test signal generators and their configuration Also returns the references for the SDI generators.*
- void [SetSDI\\_GeneratorConfigs](#) (in unsigned short BoardNbr, in [DCG\\_GeneratorConfigList\\_t](#) ConfigList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Configure a number of SDI test signal generators.*
- void [GetAES\\_GeneratorConfigs](#) (in unsigned short BoardNbr, in [IPS\\_RefTS\\_List\\_t](#) RefList, out [DCG\\_AES\\_GeneratorConfigList\\_t](#) ConfigList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Gets the list of available AES test signal generators and their configuration Also returns the references for the AES generators.*
- void [SetAES\\_GeneratorConfigs](#) (in unsigned short BoardNbr, in [DCG\\_AES\\_GeneratorConfigList\\_t](#) ConfigList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Configure a number of AES test signal generators.*
- void [NegotiatedGbePortSpeed\\_GetL](#) (in unsigned short BoardNumber, out [NegotiatedGbePortSpeed\\_List\\_t](#) NegotiatedGbePortSpeedList) raises (TimeOut, OpNotAllowed, OpNotSupported, OperationFailed)  
*Retrieves the negotiated GbE port speeds for each GbE port.*
- void [InTS\\_Statistic\\_GetL](#) (in unsigned short SlotNumber, in [IPS\\_RefTS\\_List\\_t](#) RefList, out [InTS\\_Statistic\\_List\\_t](#) StatisticList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Applicable for release 7.5.*
- void [InTS\\_Statistic\\_Reset](#) (in unsigned short SlotNumber) raises (TimeOut, OpNotAllowed, OpNotSupported, OperationFailed)  
*Applicable for release 7.5.*
- void [InTS\\_AES\\_Statistic\\_GetL](#) (in unsigned short SlotNumber, in [IPS\\_RefTS\\_List\\_t](#) RefList, out [InTS\\_AES\\_Statistic\\_List\\_t](#) StatisticList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)  
*Applicable for release 11.10.*
- void [InTS\\_AES\\_Statistic\\_Reset](#) (in unsigned short SlotNumber) raises (TimeOut, OpNotAllowed, OpNotSupported, OperationFailed)  
*Applicable for release 11.10.*
- void [DCG\\_SetStreamBU\\_Params](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_StreamBackupParamsList\\_t](#) StreamBackupParamsList) raises (TimeOut, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Sets the StreamBackup parameters for an output service.*

- [DCG\\_StreamBackupParamsList\\_t DCG\\_GetStreamBU\\_Params](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the StreamBackup parameters for an output service.*

- void [DCG\\_SetBU\\_Streams](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_BackupStreamList\\_t](#) BU\_StreamList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Sets the backup streams for each output stream.*

- [DCG\\_BackupStreamList\\_t DCG\\_GetBU\\_Streams](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the configured main/backup pairs for the requested reference.*

- void [DCG\\_SetActiveInputStream](#) (in [IPS\\_RefTS\\_t](#) OutStream, in [IPS\\_RefTS\\_t](#) ActiveInStream) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Sets the active stream for the specified output.*

- void [DCG\\_GetActiveInputStream](#) (in [IPS\\_RefTS\\_t](#) OutStream, out [IPS\\_RefTS\\_t](#) ActiveInStream) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get the active stream for the specified output.*

- void [BoardCfgSet3GTopology](#) (in unsigned short SlotNumber, in [enDCG\\_3G\\_Topology\\_t](#) BoardCfg\_3G) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set IPGW board configuration for 3G streams.*

- void [BoardCfgGet3GTopology](#) (in unsigned short SlotNumber, out [enDCG\\_3G\\_Topology\\_t](#) BoardCfg\_3G) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get IPGW board configuration for 3G streams.*

- void [GetPossible3GTopology](#) (in unsigned short SlotNumber, out [DCG\\_Possible3GBoardCfgList\\_t](#) BoardCfgList\_3G) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get a list of all board configurations and whether they can be applied or not.*

- void [DCG\\_GetAudioSignalInfo](#) (in unsigned short BoardNr, in [IPS\\_RefTS\\_List\\_t](#) RefList, out [DCG\\_AudioSignalInfoList\\_t](#) SignalInfoList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the (audio) signal information from an input AES signal.*

- void [DCG\\_GetCompressionMode](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList, out [DCG\\_CompressionEnableList\\_t](#) CompressionEnableList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the Compression setting for RTP streams.*

- void [DCG\\_SetCompressionMode](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_CompressionEnableList\\_t](#) CompressionEnableList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Sets the compression setting for RTP streams This function can be used for input as well as output streams.*

- void [DCG\\_GetJP2K\\_Params](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList, out [DCG\\_JP2K\\_paramsList\\_t](#) JP2K\_paramsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the JPEG2000 settings from an output JP2K stream.*

- void [DCG\\_GetJP2K\\_Params\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList, out [DCG\\_JP2K\\_paramsList\\_V2\\_t](#) JP2K\_paramsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*This function is similar to [DCG\\_GetJP2K\\_Params\(\)](#) above, except for the list of elements returned is not a list of [DCG\\_JP2K\\_paramsList\\_t](#) but a list of [DCG\\_JP2K\\_paramsList\\_V2\\_t](#) which differs in that the latter have an extra tributary, bEnableVPS.*



- void [DCG\\_GetJP2K\\_Params\\_V3](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList, out [DCG\\_JP2K\\_paramsList\\_V3\\_t](#) JP2K\_paramsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*This function is similar to [DCG\\_GetJP2K\\_Params\\_V2\(\)](#) above, except for the list of elements returned is not a list of [DCG\\_JP2K\\_paramsList\\_V2\\_t](#) but a list of [DCG\\_JP2K\\_paramsList\\_V3\\_t](#) which differs in that the latter have an extra element, [bSDI20BitAudio](#).*

- void [DCG\\_SetJP2K\\_Params](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_JP2K\\_paramsList\\_t](#) JP2K\_paramsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Sets the JPEG200 parameters for an output JP2K stream.*

- void [DCG\\_SetJP2K\\_Params\\_V2](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_JP2K\\_paramsList\\_V2\\_t](#) JP2K\_paramsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*This function is similar to [DCG\\_SetJP2K\\_Params\(\)](#) above, except for the list of elements returned is not a list of [DCG\\_JP2K\\_paramsList\\_t](#) but a list of [DCG\\_JP2K\\_paramsList\\_V2\\_t](#) which differs in that the latter have an extra tributary, [bEnableVPS](#).*

- void [DCG\\_SetJP2K\\_Params\\_V3](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_JP2K\\_paramsList\\_V3\\_t](#) JP2K\_paramsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*This function is similar to [DCG\\_SetJP2K\\_Params\\_V2\(\)](#) above, except for the list of elements input is not a list of [DCG\\_JP2K\\_paramsList\\_V2\\_t](#) but a list of [DCG\\_JP2K\\_paramsList\\_V3\\_t](#) which differs in that the latter have an extra element, [bSDI20BitAudio](#).*

- void [BoardCfgSetJP2KTopology](#) (in unsigned short SlotNumber, in [enDCG\\_JP2K\\_Topology\\_t](#) J-P2K\_BoardCfg) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Set JPEG 2000 board configuration.*

- void [BoardCfgGetJP2KTopology](#) (in unsigned short SlotNumber, out [enDCG\\_JP2K\\_Topology\\_t](#) J-P2K\_BoardCfg) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Get JPEG 2000 board configuration.*

- void [DCG\\_GetHitlessSwitchOverMode](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [Ref\\_List\\_t](#) RefList, out [DCG\\_HitlessSwitchOverEnable\\_List\\_t](#) HitlessSwitchOverEnableList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed)

*Gets the HitlessSwitchOver setting for RTP streams.*

- void [DCG\\_SetHitlessSwitchOverMode](#) (in [IPS\\_Ref\\_t](#) RefPhys, in [DCG\\_HitlessSwitchOverEnable\\_List\\_t](#) HitlessSwitchOverEnableList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OperationFailed, LicenseError)

*Sets the HitlessSwitchOver setting for RTP streams.*

- [GPI\\_SettingsList\\_t](#) [GetGpiSettings](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the settings for the 5 contacts.*

- void [SetGpiSettings](#) (in [GPI\\_SettingsList\\_t](#) GpiSettingsList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, LicenseError, OutOfRange)

*Sets the settings for the 5 contacts.*

- unsigned short [GetGpiRebootContact](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the number of the contact used for rebooting the device.*

- void [SetGpiRebootContact](#) (in unsigned short ContactNumber) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported, OutOfRange)

*Sets the number of the contact used for rebooting the device.*

- [GPI\\_StatusControllList\\_t](#) [GetGpi](#) () raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Queries the status of the 5 contacts.*

- void [SetGpi](#) (in [GPI\\_StatusControlList\\_t](#) GPIStatusList) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the status of the 5 contacts Only the Number and Status or Control member of [GPI\\_StatusControl\\_t](#) are taken into account, the other members are ignored in this call.*

- void [FCS\\_SetDeviceIdSelectGpiPin](#) (in unsigned short BoardNumber, in unsigned short GpiPin-Number) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Sets the Gpi Pin that is used to identify the device for customer specific Scte53 commands When the selected pin is asserted, the board will handle customer specific Scte35 commands targeted for the backup/secondary device.*

- void [FCS\\_GetDeviceIdSelectGpiPin](#) (in unsigned short BoardNumber, out unsigned short GpiPin-Number) raises (Timeout, OpNotSucceeded, OpNotAllowed, OpNotSupported)

*Gets the Gpi Pin that is used to identify the device for customer specific Scte53 commands.*

- void [AddNewScript](#) (in [ByteStream](#) ScriptContents) raises (Timeout, OpNotSucceeded, LicenseError)

*Add a new script to the the list of installed scripts.*

- void [DeleteScript](#) (in unsigned long ScriptId) raises (Timeout, OpNotSucceeded, LicenseError)

*Delete an existing script.*

- void [GetScriptsList](#) (out [ScriptEntryList\\_t](#) ScriptList) raises (Timeout, LicenseError)

*Get the list of currently installed scripts.*

- void [RunScript](#) (in unsigned long ScriptId) raises (Timeout, OpNotSucceeded, OpNotAllowed, LicenseError)

*Run an existing script.*

- void [UploadScriptResource](#) (in unsigned long ScriptId, in string FileName, in [ByteStream](#) FileContents) raises (Timeout, OpNotSucceeded, LicenseError)

*Upload a file to be used by the script (resource, config file,...)*

- void [StopScript](#) (in unsigned long ScriptId) raises (Timeout, OpNotSucceeded, LicenseError)

*Stop a running script.*

- void [SetAutorunScript](#) (in unsigned long ScriptId, in boolean AutoRun) raises (Timeout, OpNotSucceeded, LicenseError)

*Change the autorun property of a script, if set to true script will also start.*

- void [StopAllScripts](#) () raises (Timeout, LicenseError)

*Stop all running scripts.*

- void [GetScriptLogfile](#) (in unsigned long ScriptId, out string LogContents) raises (Timeout, OpNotSucceeded, LicenseError)

*Get a logfile of an installed script.*

- void [OutTS\\_SrcAddrScheme\\_SetL](#) (in unsigned short BoardNbr, in boolean UseScheme, in string IP, in string SubNetMask) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Set SourceIp Scheme for new TS created with [IPS\\_OutTS\\_AddL\(\)](#).*

- void [OutTS\\_SrcAddrScheme\\_GetL](#) (in unsigned short BoardNbr, out boolean UseScheme, out string IP, out string SubNetMask) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Get SourceIp Scheme for a new TS.*

- void [GetRipBoardSettings](#) (in unsigned short BoardNbr, out [RipBoardSettings](#) Settings) raises (-Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Get the board-wide RIP settings.*

- void [SetRipBoardSettings](#) (in unsigned short BoardNbr, in [RipBoardSettings](#) Settings) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Set the board-wide RIP settings.*

- void [GetRipInterfaceSettingsL](#) (in unsigned short BoardNbr, in [PortList\\_t](#) Ports, out [RipInterfaceSettingsList\\_t](#) Settings) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Get the RIP Interface settings.*

- void [SetRipInterfaceSettingsL](#) (in unsigned short BoardNbr, in [RipInterfaceSettingsList\\_t](#) Settings) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Get the RIP Interface settings.*

- void [GetRipTsSettingsL](#) (in unsigned short BoardNbr, in [IPS\\_RefTS\\_List\\_t](#) TSRefs, out [RipTsSettingsList\\_t](#) Settings) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Get RIP TS-specific Settings.*

- void [SetRipTsSettingsL](#) (in unsigned short BoardNbr, in [RipTsSettingsList\\_t](#) Settings) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Get RIP TS-specific Settings.*

- void [GetDefaultOutputTsLossTriggers](#) (in unsigned short BoardNbr, out [OutputTsLossTrigger\\_t](#) - Trigger) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Get the default Output TS Loss trigger.*

- void [SetDefaultOutputTsLossTriggers](#) (in unsigned short BoardNbr, in [OutputTsLossTrigger\\_t](#) - Trigger) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Set the default Output TS Loss trigger.*

- void [GetOutputTsLossTriggerL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [IPS\\_RefTS\\_List\\_t](#) TSRefs, out [OutputTsLossTriggerPerTsList\\_t](#) Triggers) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Get the Output TS Loss Triggers for the given TSs.*

- void [SetOutputTsLossTriggerL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [OutputTsLossTriggerPerTsList\\_t](#) Triggers) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Set the Output TS Loss Triggers for the given TSs.*

- void [GetDefaultOutputTsLossTriggerBmp](#) (in unsigned short BoardNbr, out [OutputTsLossTriggerBitmap\\_t](#) TriggerBitmap) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Get the default Output TS Loss trigger bitmap.*

- void [SetDefaultOutputTsLossTriggerBmp](#) (in unsigned short BoardNbr, in [OutputTsLossTriggerBitmap\\_t](#) TriggerBitmap) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Set the default Output TS Loss trigger bitmap.*

- void [GetOutputTsLossTriggerBitmapL](#) (in [IPS\\_Ref\\_t](#) PhysRef, in [IPS\\_RefTS\\_List\\_t](#) TSRefs, out [OutputTsLossTriggerBitmapPerTsList\\_t](#) TriggerBitmaps) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Get the Output TS Loss Triggers for the given TSs.*

- void [SetOutputTsLossTriggerBitmapL](#) (in unsigned short BoardNr, in [OutputTsLossTriggerBitmapPerTsList\\_t](#) TriggerBitmaps) raises (Timeout, OperationFailed, OpNotAllowed, OpNotSupported, OpNotSucceeded)

*Set the Output TS Loss Triggers for the given TSs.*

- void [ReturnOperationFailedException](#) (in unsigned short Type, in string Explanation) raises (OperationFailed)

*Return an OperationFailed Exception.*



## Public Attributes

- const unsigned short `INVALID_BOARD` = 0xffff  
*Undefined board.*
- const unsigned short `MAINBOARD` = 0
- const unsigned short `INVALID_PORT` = 0xffff  
*Undefined port.*
- const unsigned short `ANY_PORT` = 0xffff  
*Only for input parameters.*
- const unsigned long `INVALID_REF` = 0xffffffff  
*Undefined Ref.*
- const unsigned long `ANY_REF` = 0xffffffff  
*Only for input parameters.*
- const unsigned long `BITMAP_INPUT_TS_EMMS_PRESENT` = 0x1
- const unsigned long `BITMAP_INPUT_TS_UNREF_PIDS_PRESENT` = 0x2
- const unsigned long `BITMAP_INPUT_TS_PRIV_DATA_EMMG` = 0x4
- const unsigned long `BITMAP_INPUT_TS_RTP_ON` = 0x8
- const unsigned long `BITMAP_INPUT_TS_VLAN_ON` = 0x10  
*May be senseless on input but let's try to be symmetrically.*
- const unsigned long `BITMAP_INPUT_TS_VBR_ON` = 0x20  
*May be senseless on input but let's try to be symmetrically.*
- const unsigned long `BITMAP_INPUT_TS_ROUTED` = 0x40  
*Will be set when any component is routed to an output.*
- const unsigned long `BITMAP_INPUT_TS_INPUT_PRESENT` = 0x80  
*Will be set when there is signal detected.*
- const unsigned long `BITMAP_INPUT_TS_ALARM_ACTIVE` = 0x100  
*Will be set when Asi sync Loss of UDP Stream Loss detected.*
- const unsigned long `BITMAP_INPUT_TS_FEC_COL_PRESENT` = 0x200  
*Will be set when FEC column stream is present.*
- const unsigned long `BITMAP_INPUT_TS_FEC_ROW_PRESENT` = 0x400  
*Will be set when FEC row stream is present.*
- const unsigned long `BITMAP_INPUT_TS_IN_BACKUP` = 0x800  
*Will be set when TS is in Backup.*
- const unsigned long `BITMAP_INPUT_TS_UNREF_PIDS_ROUTED` = 0x1000  
*Will be set when unreferenced PIDs are routed.*
- const unsigned long `BITMAP_INPUT_TS_TSLOSS_ALARM_ACTIVE` = 0x2000  
*Will be set when TsLoss Alarm is active (backup trigger).*
- const unsigned long `BITMAP_OUTPUT_TS_EMMS_PRESENT` = 0x1
- const unsigned long `BITMAP_OUTPUT_TS_UNREF_PIDS_PRESENT` = 0x2
- const unsigned long `BITMAP_OUTPUT_TS_PRIV_DATA_EMMG` = 0x4
- const unsigned long `BITMAP_OUTPUT_TS_RTP_ON` = 0x8
- const unsigned long `BITMAP_OUTPUT_TS_VLAN_ON` = 0x10
- const unsigned long `BITMAP_OUTPUT_TS_VBR_ON` = 0x20
- const unsigned long `BITMAP_OUTPUT_TS_FEC_COL_PRESENT` = 0x200  
*Will be set when FEC column stream is enabled.*
- const unsigned long `BITMAP_OUTPUT_TS_FEC_ROW_PRESENT` = 0x400  
*Will be set when FEC row stream is enabled.*
- const `ServiceId_t` `INVALID_SID` = 0xffffffff

*Undefined sid.*

- const `ServiceId_t ANY_SID` = 0xffffffff

*Input parameter: Service creation: If you don't want any particular SID.*

- const unsigned long `BITMAP_INPUT_PRESENT` = 0x1
- const unsigned long `BITMAP_SCRAMBLLED_BY_DCM` = 0x2
- const unsigned long `BITMAP_ACTIVE` = 0x4
- const unsigned long `BITMAP_MERGED_SERVICE` = 0x8

*For output services.*

- const unsigned long `BITMAP_SERVICE_ALARM_ACTIVE` = 0x8

*For input services.*

- const unsigned long `BITMAP_SCRAMBLLED_ON_INPUT` = 0x10
- const unsigned long `BITMAP_OUTPUT_SERVICE_ALARM_ACTIVE` = 0x40

*For output services.*

- const unsigned long `BITMAP_INPUT_SIGNAL_PRESENT` = 0x80000000
- const unsigned short `INVALID_PID_VALUE` = 0xffff

*Undefined pid.*

- const unsigned short `ANY_PID_VALUE` = 0xffff

*Only for input parameters.*

- const unsigned short `INVALID_ISI` = 0xffff

*ISI value assigned to single stream (e.g. port in single stream mode).*

- const unsigned short `PSIP_REGENERATION_FOLLOW_INPUT` = 0xffff

*Number of tables follows input.*

- const unsigned long `SMX_MFP_MIN_GROUP_ID` = 10000

*GroupIDs for MFP Statmuxing uses between 10000 and 19999.*

- const unsigned long `SMX_MFP_MAX_GROUP_ID` = 19999
- const `TempLicenseState_t TEMP_LICENSE_NOT_ACTIVE` = 0

*no temporary licenses active*

- const `TempLicenseState_t TEMP_LICENSE_ACTIVE` = 1

*temporary licenses active*

- const `TempLicenseState_t TEMP_LICENSE_WAITING` = 2

*temporary licenses waiting for the start time to become active*

- const octet `PendingTestAlarm_Action_Set` = 1
- const octet `PendingTestAlarm_Action_Clear` = 2
- const octet `PendingTestAlarm_Action_SetClear` = 3
- const octet `PendingTestAlarm_Action_ClearSet` = 4
- const octet `PendingTestAlarm_Action_Register` = 5
- const octet `PendingTestAlarm_Action_Unregister` = 6
- const octet `PendingTestAlarm_Action_UnregisterRegisterSet` = 7
- const octet `AlarmAsBackupTriggerMethod_NotAllowed` = 0

*Alarm can not be used as backuptrigger.*

- const octet `AlarmAsBackupTriggerMethod_Default` = 1

*Alarm can be used as backuptrigger and will be displayed in the default way (non default presentations can be added)*

- const unsigned long `INVALID_TIER_ID` = 0xffffffff

*Invalid tier\_id.*

- const unsigned long `DCG_BITMAP_OUTPUT_TS_RTP_ON` = 0x8
- const unsigned long `DCG_BITMAP_OUTPUT_TS_VLAN_ON` = 0x10
- const unsigned long `DCG_BITMAP_OUTPUT_TS_VBR_ON` = 0x20

- const unsigned long [DCG\\_BITMAP\\_OUTPUT\\_TS\\_FEC\\_COL\\_PRESENT](#) = 0x200  
*Will be set when FEC column stream is enabled.*
- const unsigned long [DCG\\_BITMAP\\_OUTPUT\\_TS\\_FEC\\_ROW\\_PRESENT](#) = 0x400  
*Will be set when FEC row stream is enabled.*
- const unsigned long [CONTACT\\_COUNT](#) = 5
- const [OutputTsLossTrigger\\_t](#) [OutputTS\\_LossTrigger\\_Disabled](#) = 0
- const [OutputTsLossTrigger\\_t](#) [OutputTS\\_LossTrigger\\_OneService](#) = 1
- const [OutputTsLossTrigger\\_t](#) [OutputTS\\_LossTrigger\\_AllServices](#) = 2

### 10.98.1 Detailed Description

The only interface of DCM to the outside world.

Definition at line 334 of file DCM.idl.

### 10.98.2 Member Typedef Documentation

#### 10.98.2.1 typedef sequence<octet> DCM::DeviceControl::ByteStream

A sequence of bytes.

Definition at line 340 of file DCM.idl.

#### 10.98.2.2 typedef sequence<long> DCM::DeviceControl::LongStream

A sequence of longs.

Definition at line 343 of file DCM.idl.

#### 10.98.2.3 typedef sequence<MM\_ID\_t> DCM::DeviceControl::MM\_IDList

A sequence of [MM\\_ID\\_t](#).

Definition at line 440 of file DCM.idl.

#### 10.98.2.4 typedef sequence<unsigned short> DCM::DeviceControl::MM\_TypeIDList

A sequence of MM\_TypeID's.

Definition at line 443 of file DCM.idl.

#### 10.98.2.5 typedef sequence<SMX36\_AlgorithmIdentifier\_t> DCM::DeviceControl::SMX36\_AlgorithmIdentifierList\_t

Definition at line 23889 of file DCM.idl.

#### 10.98.2.6 typedef sequence<long> DCM::DeviceControl::SMX36\_EncoderIdList\_t

SMX36\_Encoder\_Delete(in SMX36\_EncoderIdList\_t EncoderIdlist) deletes the encoder.

### Version

release 9.0

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

Definition at line 23971 of file DCM.idl.

**10.98.2.7** `typedef sequence<SMX36_Encoder_t> DCM::DeviceControl::SMX36_EncoderList_t`

Definition at line 23943 of file DCM.idl.

**10.98.2.8** `typedef sequence<long> DCM::DeviceControl::SMX36_PoolIdList_t`

SMX36\_Pool\_Delete(in SMX36\_PoolIdList\_t PoolIdlist) deletes the pool.

**Version**

release 9.0

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

Definition at line 23861 of file DCM.idl.

**10.98.2.9** `typedef sequence<SMX36_Pool_t> DCM::DeviceControl::SMX36_PoolList_t`

Definition at line 23798 of file DCM.idl.

**10.98.2.10** `typedef sequence<SMX36_Pool_V2_t> DCM::DeviceControl::SMX36_PoolList_V2_t`

Definition at line 23817 of file DCM.idl.

**10.98.2.11** `typedef sequence<SMX36_StatmuxController_t> DCM::DeviceControl::SMX36_StatmuxControllerList_t`

Definition at line 23735 of file DCM.idl.

**10.98.2.12** `typedef sequence<SMX36_VSE_CalculatedRates_t> DCM::DeviceControl::SMX36_VSE_CalculatedRatesList_t`

Definition at line 24265 of file DCM.idl.

**10.98.2.13** `typedef sequence<SMX36_VSEBackup_t> DCM::DeviceControl::SMX36_VSEBackupList_t`

Definition at line 24360 of file DCM.idl.

**10.98.2.14** `typedef sequence<SMX36_VSEBackup_V2_t> DCM::DeviceControl::SMX36_VSEBackupList_V2_t`

**Version**

release 9.10 added suport for safeguard

Definition at line 24362 of file DCM.idl.

**10.98.2.15** `typedef sequence<long> DCM::DeviceControl::SMX36_VSEIdList_t`

`SMX36_VSE_Delete( in SMX36_VSEIdList_t VSEIdlist )` Delete VSEs.

#### Note

Only VSE with the status `SMX36_VSEStatus_Disconnected` will be deleted.

#### Version

release 9.0

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

Definition at line 24251 of file DCM.idl.

**10.98.2.16** `typedef sequence<SMX36_VSE_t> DCM::DeviceControl::SMX36_VSEList_t`

Definition at line 24061 of file DCM.idl.

**10.98.2.17** `typedef sequence<SMX36_VSE_V2_t> DCM::DeviceControl::SMX36_VSEList_V2_t`

Definition at line 24082 of file DCM.idl.

**10.98.2.18** `typedef sequence<SMX36_VSE_V3_t> DCM::DeviceControl::SMX36_VSEList_V3_t`

Definition at line 24142 of file DCM.idl.

**10.98.2.19** `typedef sequence<SMX36_VSE_V4_t> DCM::DeviceControl::SMX36_VSEList_V4_t`

Definition at line 24199 of file DCM.idl.

### 10.98.3 Member Enumeration Documentation

**10.98.3.1** `enum DCM::DeviceControl::eDeviceType`

The different device types, mechanical chassis types.

#### Enumerator:

*eDeviceType\_D9900* 2RU [DCM](#) MKI  
*eDeviceType\_D9901* 1RU [DCM](#) MKI  
*eDeviceType\_D9902* 2RU [DCM](#) MKII  
*eDeviceType\_D9036* 1RU MVP  
*eDeviceType\_Reserved1*  
*eDeviceType\_Reserved2*  
*eDeviceType\_Reserved3*  
*eDeviceType\_Reserved4*  
*eDeviceType\_Reserved5*

*eDeviceType\_Reserved6*  
*eDeviceType\_Reserved7*  
*eDeviceType\_Reserved8*  
*eDeviceType\_Reserved9*  
*eDeviceType\_Reserved10*

Definition at line 373 of file DCM.idl.

#### 10.98.3.2 enum DCM::DeviceControl::eSystemType

The different system types.

Enumerator:

*eDCM*  
*eDCM\_SuperCrypt*  
*eDCM\_Statmux*

Definition at line 346 of file DCM.idl.

#### 10.98.3.3 enum DCM::DeviceControl::eSystemType\_V2

The different product families.

Enumerator:

*eSystemType\_V2\_DCM*  
*eSystemType\_V2\_SuperCrypt*  
*eSystemType\_V2\_MVP*  
*eSystemType\_V2\_PCAM*  
*eSystemType\_V2\_Reserved1*  
*eSystemType\_V2\_Reserved2*  
*eSystemType\_V2\_Reserved3*  
*eSystemType\_V2\_Reserved4*  
*eSystemType\_V2\_Reserved5*  
*eSystemType\_V2\_Reserved6*  
*eSystemType\_V2\_Reserved7*  
*eSystemType\_V2\_Reserved8*  
*eSystemType\_V2\_Reserved9*  
*eSystemType\_V2\_Reserved10*

Definition at line 354 of file DCM.idl.

#### 10.98.3.4 enum DCM::DeviceControl::SMX36\_AlgorithmType\_e

Enumerator:

*SMX36\_AlgorithmType\_RateTable* pre-URC version  
*SMX36\_AlgorithmType\_URC* Unified Rate Control.

*SMX36\_AlgorithmType\_reserved1*  
*SMX36\_AlgorithmType\_reserved2*  
*SMX36\_AlgorithmType\_reserved3*  
*SMX36\_AlgorithmType\_reserved4*  
*SMX36\_AlgorithmType\_reserved5*  
*SMX36\_AlgorithmType\_reserved6*  
*SMX36\_AlgorithmType\_reserved7*  
*SMX36\_AlgorithmType\_reserved8*

Definition at line 23869 of file DCM.idl.

#### 10.98.3.5 enum DCM::DeviceControl::SMX36\_CoS\_e

Enumerator:

*SMX36\_CoS\_Routine*  
*SMX36\_CoS\_Priority*  
*SMX36\_CoS\_Immediate*  
*SMX36\_CoS\_Flash*  
*SMX36\_CoS\_FlashOverride*  
*SMX36\_CoS\_CriticECP*  
*SMX36\_CoS\_InternetnetworkControl*  
*SMX36\_CoS\_NetworkControl*

Definition at line 23628 of file DCM.idl.

#### 10.98.3.6 enum DCM::DeviceControl::SMX36\_EncoderStatus\_e

Enumerator:

*SMX36\_EncoderStatus\_Disconnected*  
*SMX36\_EncoderStatus\_Connected*

Definition at line 23928 of file DCM.idl.

#### 10.98.3.7 enum DCM::DeviceControl::SMX36\_PoolGuaranteeMinRateMode\_e

Enumerator:

*SMX36\_PoolGuaranteeMinRateOff*  
*SMX36\_PoolGuaranteeMinRateON*

Definition at line 23774 of file DCM.idl.

#### 10.98.3.8 enum DCM::DeviceControl::SMX36\_PoolSafeRateMode\_e

Enumerator:

*SMX36\_PoolSafeRateMode\_Default*  
*SMX36\_PoolSafeRateMode\_Min*  
*SMX36\_PoolSafeRateMode\_Reserved* Not used.

Definition at line 23767 of file DCM.idl.

**10.98.3.9 enum DCM::DeviceControl::SMX36\_QoSMode\_e**

QoS for D9036 Statmux Device.

**Note**

Placed at device level in the GUI.

**Version**

release 9.0

**Enumerator:**

*SMX36\_QoSMode\_ToS\_CoS\_Precedence*

*SMX36\_QoSMode\_Differentiated*

*SMX36\_QoSMode\_Custom*

Definition at line 23612 of file DCM.idl.

**10.98.3.10 enum DCM::DeviceControl::SMX36\_StatmuxControllerBackupState\_e****Enumerator:**

*SMX36\_StatmuxControllerBackupState\_Active*

*SMX36\_StatmuxControllerBackupState\_Inactive*

Definition at line 23716 of file DCM.idl.

**10.98.3.11 enum DCM::DeviceControl::SMX36\_ToS\_e****Enumerator:**

*SMX36\_ToS\_Normal*

*SMX36\_ToS\_MinCost*

*SMX36\_ToS\_MaxReliability*

*SMX36\_ToS\_MaxThroughput*

*SMX36\_ToS\_MinDelay*

Definition at line 23619 of file DCM.idl.

**10.98.3.12 enum DCM::DeviceControl::SMX36\_Video\_Rate\_Mode\_e****Enumerator:**

*SMX36\_Video\_Rate\_Mode\_Ignore* Do not enforce certain video rate mode when adding VSE to pool.

*SMX36\_Video\_Rate\_Mode\_Statmux* VSE is running in statmuxed rate mode.

*SMX36\_Video\_Rate\_Mode\_CBR* VSE is running in CBR rate mode.

*SMX36\_Video\_Rate\_Mode\_Capped\_VBR* VSE is running in Capped VBR rate mode.

*SMX36\_Video\_Rate\_Mode\_Reserved1* Reserved for future use.

*SMX36\_Video\_Rate\_Mode\_Reserved2* Reserved for future use.

*SMX36\_Video\_Rate\_Mode\_Reserved3* Reserved for future use.



*SMX36\_Video\_Rate\_Mode\_Reserved4* Reserved for future use.  
*SMX36\_Video\_Rate\_Mode\_Reserved5* Reserved for future use.  
*SMX36\_Video\_Rate\_Mode\_Reserved6* Reserved for future use.  
*SMX36\_Video\_Rate\_Mode\_Reserved7* Reserved for future use.  
*SMX36\_Video\_Rate\_Mode\_Reserved8* Reserved for future use.

Definition at line 24145 of file DCM.idl.

#### 10.98.3.13 enum DCM::DeviceControl::SMX36\_VSE\_Codec\_e

Enumerator:

*SMX36\_VSE\_Codec\_Unknown* Only possible in status case, when encoder is offline and thus Codec is unknown.  
*SMX36\_VSE\_Codec\_Mpeg2* MPEG2 standard.  
*SMX36\_VSE\_Codec\_Avc* H.264 / AVC standard.  
*SMX36\_VSE\_Codec\_Reserved1* Reserved for future use.  
*SMX36\_VSE\_Codec\_Reserved2* Reserved for future use.  
*SMX36\_VSE\_Codec\_Reserved3* Reserved for future use.  
*SMX36\_VSE\_Codec\_Reserved4* Reserved for future use.  
*SMX36\_VSE\_Codec\_Reserved5* Reserved for future use.  
*SMX36\_VSE\_Codec\_Reserved6* Reserved for future use.

Definition at line 24084 of file DCM.idl.

#### 10.98.3.14 enum DCM::DeviceControl::SMX36\_VSE\_Format\_e

Enumerator:

*SMX36\_VSE\_Format\_Unknown* Only possible in status case, when encoder is offline and thus - Format is unknown.  
*SMX36\_VSE\_Format\_SD* Standard definition.  
*SMX36\_VSE\_Format\_HD* High definition.  
*SMX36\_VSE\_Format\_Reserved1* Reserved for future use.  
*SMX36\_VSE\_Format\_Reserved2* Reserved for future use.  
*SMX36\_VSE\_Format\_Reserved3* Reserved for future use.  
*SMX36\_VSE\_Format\_Reserved4* Reserved for future use.  
*SMX36\_VSE\_Format\_Reserved5* Reserved for future use.  
*SMX36\_VSE\_Format\_Reserved6* Reserved for future use.

Definition at line 24097 of file DCM.idl.

#### 10.98.3.15 enum DCM::DeviceControl::SMX36\_VSEBackupState\_e

Enumerator:

*SMX36\_VSEBackupState\_inactive* The Backup is not activated the SafeRate is set on the backup VSE.  
*SMX36\_VSEBackupState\_active* The Backup is activated, backup VSE is active and the main VSE inactive.  
*SMX36\_VSEBackupState\_reserved* reserved for future use.

Definition at line 24315 of file DCM.idl.

**10.98.3.16 enum DCM::DeviceControl::SMX36\_VSEBackupState\_V2\_e****Version**

release 9.10 added suport for safeguard

**Enumerator:**

***SMX36\_VSEBackupState\_inactive\_V2*** The Backup is not activated the SafeRate is set on the backup VSE.

***SMX36\_VSEBackupState\_active\_V2*** The Backup is activated, backup VSE is active and the main VSE inactive.

***SMX36\_VSEBackupState\_inactive\_Safeguard*** Same as inactive but if communication is lost to - Main or Backup VSE the VSE will run saft rate.

***SMX36\_VSEBackupState\_active\_Safeguard*** Same as active but if communication is lost to Main or Backup VSE the VSE will run saft rate.

***SMX36\_VSEBackupState\_reserved\_5*** reserved for future use.

***SMX36\_VSEBackupState\_reserved\_6*** reserved for future use.

***SMX36\_VSEBackupState\_reserved\_7*** reserved for future use.

***SMX36\_VSEBackupState\_reserved\_8*** reserved for future use.

***SMX36\_VSEBackupState\_reserved\_9*** reserved for future use.

***SMX36\_VSEBackupState\_reserved\_10*** reserved for future use.

Definition at line 24323 of file DCM.idl.

**10.98.3.17 enum DCM::DeviceControl::SMX36\_VSEBitRateMode\_e****Enumerator:**

***SMX36\_VSEBitRateMode\_Manual*** User configures the default rates for the VSE.

***SMX36\_VSEBitRateMode\_Auto*** The system calculates the default rates for the VSE.

***SMX36\_VSEBitRateMode\_reserved*** reserved future use

Definition at line 24032 of file DCM.idl.

**10.98.3.18 enum DCM::DeviceControl::SMX36\_VSEDelay\_e****Enumerator:**

***SMX36\_VSEDelay\_Normal***

***SMX36\_VSEDelay\_Low***

***SMX36\_VSEDelay\_High***

Definition at line 23980 of file DCM.idl.

**10.98.3.19 enum DCM::DeviceControl::SMX36\_VSEDelay\_V2\_e****Enumerator:**

***SMX36\_VSEDelay\_V2\_Normal***

***SMX36\_VSEDelay\_V2\_Low***

***SMX36\_VSEDelay\_V2\_High***

*SMX36\_VSEDelay\_Reserved1*  
*SMX36\_VSEDelay\_Reserved2*  
*SMX36\_VSEDelay\_Reserved3*  
*SMX36\_VSEDelay\_Reserved4*  
*SMX36\_VSEDelay\_Reserved5*  
*SMX36\_VSEDelay\_Reserved6*

Definition at line 23987 of file DCM.idl.

#### 10.98.3.20 enum DCM::DeviceControl::SMX36\_VSEStatus\_e

Enumerator:

*SMX36\_VSEStatus\_Disconnected* Unable to communicate with VSE.  
*SMX36\_VSEStatus\_Running* Statmuxing.  
*SMX36\_VSEStatus\_Running\_Safe* Statmuxing but running with SAfe rate.  
*SMX36\_VSEStatus\_Not\_Running* Not configured to run statmux.  
*SMX36\_VSEStatus\_CBR* Constant bitrate mode.  
*SMX36\_VSEStatus\_Capped\_VBR* Varialbe bitrate mode.

Definition at line 24022 of file DCM.idl.

#### 10.98.3.21 enum DCM::DeviceControl::SMX\_VSEBackedupState\_e

Enumerator:

*SMX36\_VSEBackedupStat\_no* The VSE is not backedup by an other VSE.  
*SMX36\_VSEBackedupStat\_yes* The VSE is curently backedup by an other VSE see backuplist.

Definition at line 24039 of file DCM.idl.

### 10.98.4 Member Function Documentation

#### 10.98.4.1 SMX36\_Community\_t DCM::DeviceControl::SMX36\_Community\_Get ( ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_Community\\_Get\(\)](#) Reads the community parameters for the device i.e. all boards in the device.

#### Version

release 9.0

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.2** void DCM::DeviceControl::SMX36\_Community\_Set ( in SMX36\_Community\_t Community ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_Community\\_Set\(in SMX36\\_Community\\_t Community\)](#) Sets the community parameters for the device i.e.

all boards in the device.

#### Version

release 9.0

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.3** SMX36\_StatmuxControllerList\_t DCM::DeviceControl::SMX36\_Controllers\_GetL ( in long Id ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

SMX36\_StatmuxControllerList\_t [SMX36\\_Controllers\\_GetL\( in long Id \)](#) Reads the statmux controller parameters.

#### Note

If the Id equal or less than -1 all statmux controlers within the statmux community is listed.

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

#### Version

release 9.0

**10.98.4.4** SMX36\_AlgorithmIdentifier\_t DCM::DeviceControl::SMX36\_DefaultAlgorithm\_Get ( ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_DefaultAlgorithm\\_Get\(\)](#) Retrieve the default selected algorithm for a pool.

#### Note

Currently this is the algorithm as used by all pools.

#### Version

release 11.0

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.5** void DCM::DeviceControl::SMX36\_DefaultAlgorithm\_Set ( in SMX36\_Algorithm-Identifier\_t *DefaultAlgorithm* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_DefaultAlgorithm\\_Set\( in SMX36\\_AlgorithmIdentifier\\_t DefaultAlgorithm \)](#) Set the algorithm to be used by all pools.

#### Note

Currently this is a system wide enforcement. As such it will stop all pools and and restart them (service affecting!) if the new setting is different than the current one.

#### Version

release 11.0

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.6** long DCM::DeviceControl::SMX36\_Encoder\_Create ( in string *EncoderIPAddress* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_Encoder\\_Create\( in string EncoderIPAddress \)](#) creates an encoder and return the Id.

#### Note

If The EncoderIPAdress already have been used no encoder will be created and the return will be zero.

#### Version

release 9.0

#### Exceptions

|                       |                                             |
|-----------------------|---------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.  |
| <i>OpNotSucceeded</i> | unable to create encoder or Internal error. |

**10.98.4.7** void DCM::DeviceControl::SMX36\_Encoder\_DeleteL ( in SMX36\_EncoderIdList\_t *EncoderIdlist* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**10.98.4.8** SMX36\_EncoderList\_t DCM::DeviceControl::SMX36\_Encoder\_GetL ( in long *Encoderid* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_Encoder\\_GetL\( in long Encoderid\)](#) Reads the Encoder parameters.

#### Note

If the Id equal to -1 all Encoder's in the statmux community are listed.

**Version**

release 9.0

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.9** unsigned short DCM::DeviceControl::SMX36\_GetStartingUdpPort ( ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_GetStartingUdpPort\(\)](#) Reads the starting UDP port number given to the SPS to be used for communication with the SPSs.

**Version**

release 9.0

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.10** long DCM::DeviceControl::SMX36\_Pool\_Create ( in string *PoolName*, in unsigned long *PoolBandwidth*, in unsigned short *PoolMaxVSECapacity* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

SMX36\_Pool\_Create(in string PoolName) creates a pool and return the Id.

**Note**

If The Name already exist no pool will be created and the return Id will be zero. If it is not possible to allocate the resources for the Pool the call will return OperationFailed. The Pool will be created with the following parameter values: BandwidthOverhead = 0, STickLength = 30, SafeRateMode = SMX36\_PoolSafeRateMode\_Default, GuaranteeMinRateMode = SMX36\_PoolGuaranteeMinRateOff.

**Version**

release 9.0

**Exceptions**

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing.           |
| <i>OpNotSucceeded</i> | Unable to create pool or an internal error occurred. |

**10.98.4.11** void DCM::DeviceControl::SMX36\_Pool\_DeleteL ( in SMX36\_PoolIdList\_t *PoolIdlist* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**10.98.4.12** SMX36\_PoolList\_t DCM::DeviceControl::SMX36\_Pool\_GetL ( in long *poolid* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_Pool\\_GetL\(in long poolid\)](#) Reads the Pool parameters.

#### Note

If the Id is less or equal to -1 all pool's in the statmux community is listed.

#### Version

release 9.0 (V2->V11.00)

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.13** void DCM::DeviceControl::SMX36\_Pool\_SetL ( in SMX36\_PoolList\_t *Poollist* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_Pool\\_SetL\(in SMX36\\_PoolList\\_t Poollist\)](#) Sets the parameters for the pool in the list.

#### Version

release 9.0 (V2->V11.00)

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.14** SMX36\_PoolList\_V2\_t DCM::DeviceControl::SMX36\_Pool\_V2\_GetL ( in long *poolid* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**10.98.4.15** void DCM::DeviceControl::SMX36\_Pool\_V2\_SetL ( in SMX36\_PoolList\_V2\_t *Poollist* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**10.98.4.16** unsigned short DCM::DeviceControl::SMX36\_PortPairSetup\_Get ( in unsigned short *BoardNr* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_PortPairSetup\\_Get\(in unsigned short BoardNr\)](#) Reads the used Physical PortPair number 0=pairA 2=pairB.

#### Version

release 9.0

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.17** void DCM::DeviceControl::SMX36\_PortPairSetup\_Set ( in unsigned short *BoardNr*,  
in unsigned short *PortNumber* ) raises (Timeout, OpNotSucceeded, OperationFailed,  
OpNotAllowed, OpNotSupported)

[SMX36\\_PortPairSetup\\_Set](#)(in unsigned short *BoardNr*, in unsigned short *PortNumber*) Sets the used -  
Physical PortPair [0,2].

#### Version

release 9.0

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>Timeout</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.18** SMX36\_NetworkQoS\_t DCM::DeviceControl::SMX36\_QoS\_Get ( ) raises (Timeout,  
OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_QoS\\_Get](#)() Reads the QoS parameters for all statmux communication in the Device.

#### Version

release 9.0

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>Timeout</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.19** void DCM::DeviceControl::SMX36\_QoS\_Set ( in SMX36\_NetworkQoS\_t *QoS* ) raises  
(Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_QoS\\_Set](#)(in SMX36\_NetworkQoS\_t *QoS*) Sets the QoS parameters for all statmux communica-  
tion in the Device.

#### Version

release 9.0

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>Timeout</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Set failed.                                |

**10.98.4.20** void DCM::DeviceControl::SMX36\_SetStartingUdpPort ( in unsigned short  
*StartingUdpPort* ) raises (Timeout, OpNotSucceeded, OperationFailed, OpNotAllowed,  
OpNotSupported)

[SMX36\\_SetStartingUdpPort](#)(in unsigned short *StartingUdpPort*) Sets the starting UDP port number given  
to the SPS to be used for communication with the SPSs.



**Version**

release 9.0

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.21** **SMX36\_AlgorithmIdentifierList\_t DCM::DeviceControl::SMX36\_Supported-Algorithm\_GetL ( )** raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_SupportedAlgorithm\\_GetL\(\)](#) Retrieve the supported D9036 statmux algorithms.

**Version**

release 11.0

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.22** **void DCM::DeviceControl::SMX36\_SwapEncoder ( in string *MainEncoderIPAddress*, in string *BackupEncoderIPAddress* )** raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_SwapEncoder\(in string MainEncoderIPAddress, in string BackupEncoderIPAddress\)](#) Replaces all the main encoder VSE's with the backup encoder VSE's in the cases where the VSE name's matches between the main and backup encoder.

**Note**

For version 9.0 If an entry in the backup list the entry is deleted from the list before the VSE replacement is made. For version 9.10 If a swapped VSE matches an entry in the backup list i.e. both the main and backup name's in the backup entry, the backup entry will be reversed before the swap is made.

**Version**

release 9.10

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.23** SMX36\_VSE\_CalculatedRatesList\_t DCM::DeviceControl::SMX36\_VSE\_CalcDefaultRates\_V2 ( in SMX\_Pool\_Calculate\_t *Pool*, in SMX36\_VSEList\_V3\_t *VSElist* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

SMX36\_VSE\_CalcDefaultRates\_V2 Calculate the VSE default rates using the VSE data with support for code/format.

#### Version

release 10.20

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.24** SMX36\_VSE\_CalculatedRatesList\_t DCM::DeviceControl::SMX36\_VSE\_CalculateDefaultRates ( in SMX\_Pool\_Calculate\_t *Pool*, in SMX36\_VSEList\_V2\_t *VSElist* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

SMX36\_VSE\_CalculateDefaultRates Calculate the VSE default rates using the in data.

#### Version

release 9.10

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.25** long DCM::DeviceControl::SMX36\_VSE\_Create ( in long *EncoderId*, in string *VSEName* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

SMX36\_VSE\_Create( in long *EncoderId*, in string *VSEName* ) creates an VSE and return the Id.

#### Note

If The VSEName already have been used no VSE will be created and the return will be zero.

#### Version

release 9.0

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | unable to create VSE or Internal error.    |

**10.98.4.26** void DCM::DeviceControl::SMX36\_VSE\_DeleteL ( in SMX36\_VSEIdList\_t *VSEIdlist* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**10.98.4.27** SMX36\_VSEList\_t DCM::DeviceControl::SMX36\_VSE\_GetL ( in long *VSEid* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_VSE\\_GetL\( in long VSEid\)](#) Reads the VSE parameters.

#### Note

If the Id equal to -1 all VSE's the statmux community are listed.

#### Version

release 9.0 (V2->9.10) (V3->10.20) (V4->11.00)

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.28** void DCM::DeviceControl::SMX36\_VSE\_SetL ( in SMX36\_VSEList\_t *VSE* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_VSE\\_SetL\( in SMX36\\_VSEList\\_t VSE\)](#) Sets the VSE parameters.

#### Note

If a VSE is to be added the Id for the VSE must be -1.

#### Version

release 9.0 (V2->9.10) (V3->10.20) (V4->11.00)

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.29** SMX36\_VSEList\_V2\_t DCM::DeviceControl::SMX36\_VSE\_V2\_GetL ( in long *VSEid* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**10.98.4.30** void DCM::DeviceControl::SMX36\_VSE\_V2\_SetL ( in SMX36\_VSEList\_V2\_t *VSE* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**10.98.4.31** SMX36\_VSEList\_V3\_t DCM::DeviceControl::SMX36\_VSE\_V3\_GetL ( in long *VSEid* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**10.98.4.32** void DCM::DeviceControl::SMX36\_VSE\_V3\_SetL ( in SMX36\_VSEList\_V3\_t *VSE* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**10.98.4.33** SMX36\_VSEList\_V4\_t DCM::DeviceControl::SMX36\_VSE\_V4\_GetL ( in long *VSEid* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**10.98.4.34** void DCM::DeviceControl::SMX36\_VSE\_V4\_SetL ( in SMX36\_VSEList\_V4\_t VSE )  
raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

**10.98.4.35** void DCM::DeviceControl::SMX36\_VSEBackupList\_AddL ( in  
SMX36\_VSEBackupList\_t BackupList ) raises (TimeOut, OpNotSucceeded, OperationFailed,  
OpNotAllowed, OpNotSupported)

[SMX36\\_VSEBackupList\\_AddL\( in SMX36\\_VSEBackupList\\_t VSEBackupList \)](#) Add entry's to the VSE backup list.

#### Note

If the BackupState is active the main VSE is set inactive and the backup VSE is set active, using all the parameters from the main VSE on the backup VSE. If an entry already exists in the backup list the state of the existing entry is change according to the state of the new entry and the new entry is ignored. If a new entry contains a VSE already used by another entry the entry is ignored. If the backup VSE in a new entry is allocated to a pool the entry is ignored.

#### Version

release 9.0

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.36** void DCM::DeviceControl::SMX36\_VSEBackupList\_DeleteL ( in  
SMX36\_VSEBackupList\_t BackupList ) raises (TimeOut, OpNotSucceeded, OperationFailed,  
OpNotAllowed, OpNotSupported)

[SMX36\\_VSEBackupList\\_DeleteL\( in SMX36\\_VSEBackupList\\_t BackupList \)](#) Remove entry's from the backup list (based on Main Enc IP, Main VSE info).

#### Note

If backup-state is active the backup is reversed so that the backup VSE is set inactive and the main VSE to active. Only the main VSE data needs to be specified.

#### Version

release 9.0

#### Exceptions

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.37** void DCM::DeviceControl::SMX36\_VSEBackupList\_FlushL ( ) raises (TimeOut,  
OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_VSEBackupList\\_FlushL\( \)](#) Deletes all entry's the entire VSE backup list.

**Version**

release 9.0

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error. remove full list.          |

**10.98.4.38** `SMX36_VSEBackupList_t DCM::DeviceControl::SMX36_VSEBackupList_GetL ( )`  
raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_VSEBackupList\\_GetL\( \)](#) Get the VSE Backup list.

**Note**

entry's with backup state set to floating is removed and is therefore not in the list.

**Version**

release 9.0

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.39** `void DCM::DeviceControl::SMX36_VSEBackupList_SetL ( in SMX36_VSEBackupList_t BackupList )` raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

[SMX36\\_VSEBackupList\\_SetL\( in SMX36\\_VSEBackupList\\_t VSEBackupList \)](#) Set the VSE backup state and backup VSE for a certain Main VSE identified by the MainEncoderIPAddress and MainVSEName.

For example the BackupState.

**Note**

If the Main VSE is not already registered the entry is ignored.

**Version**

release 9.0

**Exceptions**

|                       |                                            |
|-----------------------|--------------------------------------------|
| <i>TimeOut</i>        | A timeout occurred during IIOP processing. |
| <i>OpNotSucceeded</i> | Internal error.                            |

**10.98.4.40** void DCM::DeviceControl::SMX36\_VSEBackupList\_V2\_AddL ( in SMX36\_VSEBackupList\_V2\_t *BackupList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

#### Version

release 9.10 added suport for safeguard

**10.98.4.41** void DCM::DeviceControl::SMX36\_VSEBackupList\_V2\_DeleteL ( in SMX36\_VSEBackupList\_V2\_t *BackupList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

#### Version

release 9.10 added suport for safeguard

**10.98.4.42** SMX36\_VSEBackupList\_V2\_t DCM::DeviceControl::SMX36\_VSEBackupList\_V2\_GetL ( ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

#### Version

release 9.10 added suport for safeguard

**10.98.4.43** void DCM::DeviceControl::SMX36\_VSEBackupList\_V2\_SetL ( in SMX36\_VSEBackupList\_V2\_t *BackupList* ) raises (TimeOut, OpNotSucceeded, OperationFailed, OpNotAllowed, OpNotSupported)

#### Version

release 9.10 added suport for safeguard

The documentation for this interface was generated from the following file:

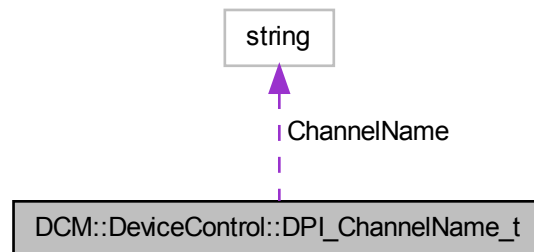
- [DCM.idl](#)

## 10.99 DCM::DeviceControl::DPI\_ChannelName\_t Struct Reference

A spliceable channel name.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DPI\_ChannelName\_t:



### Public Attributes

- string [ChannelName](#)  
*max 32 characters, must be 0 terminated*

### 10.99.1 Detailed Description

A spliceable channel name.

Definition at line 16988 of file DCM.idl.

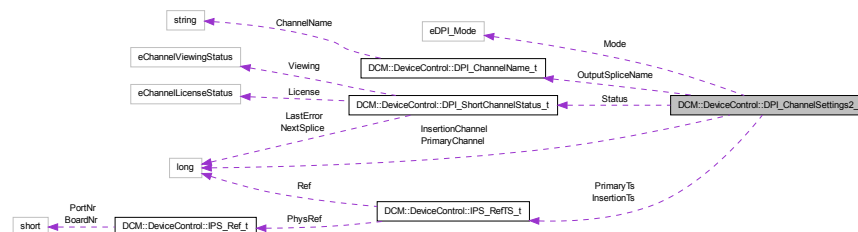
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.100 DCM::DeviceControl::DPI\_ChannelSettings2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DPI\_ChannelSettings2\_t:



## Public Attributes

- [DPI\\_ChannelName\\_t](#) OutputSpliceName
- [eDPI\\_Mode](#) Mode
- [IPS\\_RefTS\\_t](#) PrimaryTs
- unsigned long [PrimaryChannel](#)

*SID.*

- [IPS\\_RefTS\\_t](#) InsertionTs
- unsigned long [InsertionChannel](#)

*SID.*

- [DPI\\_ShortChannelStatus\\_t](#) Status

*The status information shown in the GUI on the overview page.*

## 10.100.1 Detailed Description

Definition at line 17032 of file DCM.idl.

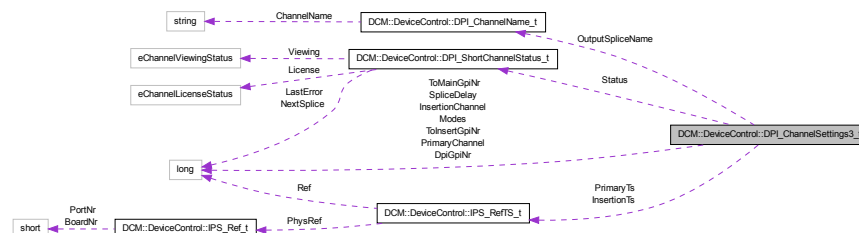
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.101 DCM::DeviceControl::DPI\_ChannelSettings3\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DPI\_ChannelSettings3\_t:



## Public Attributes

- [DPI\\_ChannelName\\_t](#) OutputSpliceName
- [IPS\\_RefTS\\_t](#) PrimaryTs
- unsigned long [PrimaryChannel](#)

*SID.*

- [IPS\\_RefTS\\_t](#) InsertionTs
- unsigned long [InsertionChannel](#)

*SID.*

- [DPI\\_ShortChannelStatus\\_t](#) Status

*The status information shown in the GUI on the overview page.*

- [DPI\\_ModeBitmap\\_t](#) Modes



*Modes bitmap allowing combined DPI modes.*

- unsigned long [ToInsertGpiNr](#)  
*Gpi pin used to switch to insertion.*
- unsigned long [ToMainGpiNr](#)  
*Gpi pin used to switch to main.*
- unsigned long [DpiGpiNr](#)  
*Gpi pin used for both, to insertion and to main.*
- unsigned long [SpliceDelay](#)  
*Splice delay in msec for both, to insertion and to main (0 means asap, max = 3600000 msec)*

### 10.101.1 Detailed Description

Definition at line 17047 of file DCM.idl.

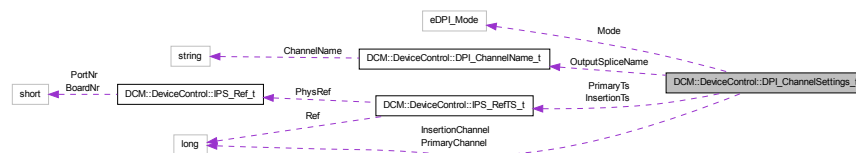
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.102 DCM::DeviceControl::DPI\_ChannelSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DPI\_ChannelSettings\_t:



### Public Attributes

- [DPI\\_ChannelName\\_t](#) OutputSpliceName
- [eDPI\\_Mode](#) Mode
- [IPS\\_RefTS\\_t](#) PrimaryTs
- unsigned long [PrimaryChannel](#)  
*SID.*
- [IPS\\_RefTS\\_t](#) InsertionTs
- unsigned long [InsertionChannel](#)  
*SID.*

### 10.102.1 Detailed Description

Definition at line 17018 of file DCM.idl.

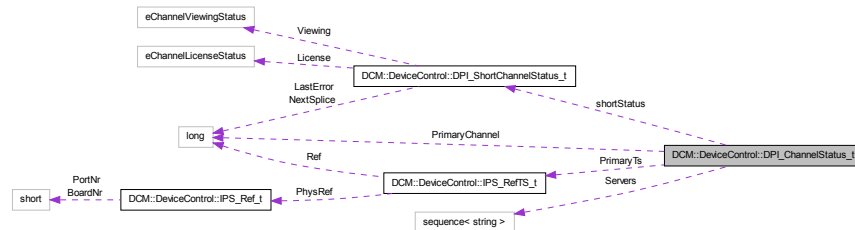
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.103 DCM::DeviceControl::DPI\_ChannelStatus\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DPI\_ChannelStatus\_t:



## Public Attributes

- [IPS\\_RefTS\\_t PrimaryTs](#)
- unsigned long [PrimaryChannel](#)  
*SID.*
- [DPI\\_ShortChannelStatus\\_t shortStatus](#)
- sequence< string > [Servers](#)

*Each string contains an IP address plus insertion channel information.*

## 10.103.1 Detailed Description

Definition at line 17065 of file DCM.idl.

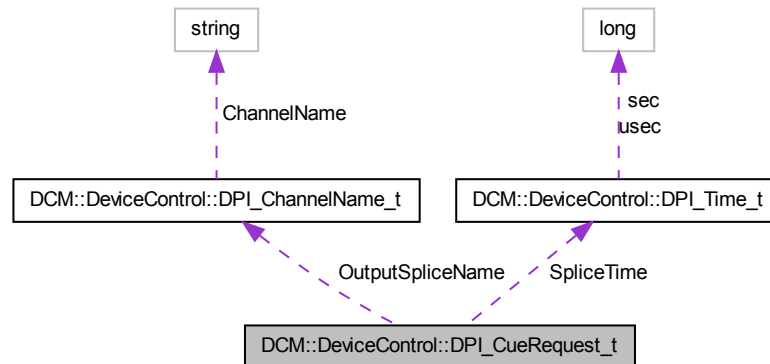
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.104 DCM::DeviceControl::DPI\_CueRequest\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DPI\_CueRequest\_t:



#### Public Attributes

- [DPI\\_ChannelName\\_t OutputSpliceName](#)
- [DPI\\_Time\\_t SpliceTime](#)

#### 10.104.1 Detailed Description

Definition at line 17083 of file DCM.idl.

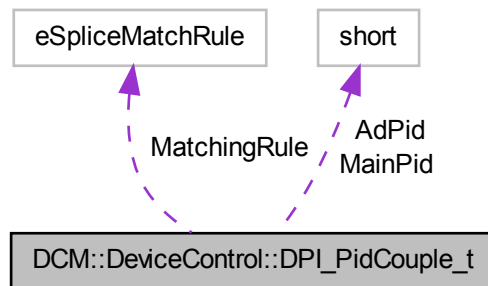
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.105 DCM::DeviceControl::DPI\_PidCouple\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DPI\_PidCouple\_t:



#### Public Attributes

- unsigned short [MainPid](#)  
*Main Input PID value.*
- unsigned short [AdPid](#)  
*Ad Input PID value - INVALID\_PID\_VALUE if rule == PassMain.*
- [eSpliceMatchRule](#) [MatchingRule](#)  
*Matching rule.*

#### 10.105.1 Detailed Description

Definition at line 17116 of file DCM.idl.

The documentation for this struct was generated from the following file:

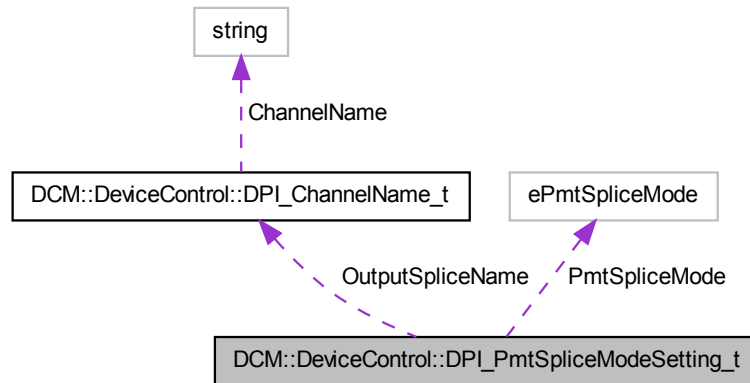
- [DCM.idl](#)

#### 10.106 DCM::DeviceControl::DPI\_PmtSpliceModeSetting\_t Struct Reference

Struct to set/get ePMT\_SpliceMode per channel.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DPI\_PmtSpliceModeSetting\_t:



#### Public Attributes

- [DPI\\_ChannelName\\_t](#) OutputSpliceName
- [ePmtSpliceMode](#) PmtSpliceMode

#### 10.106.1 Detailed Description

Struct to set/get ePMT\_SpliceMode per channel.

Definition at line 17133 of file DCM.idl.

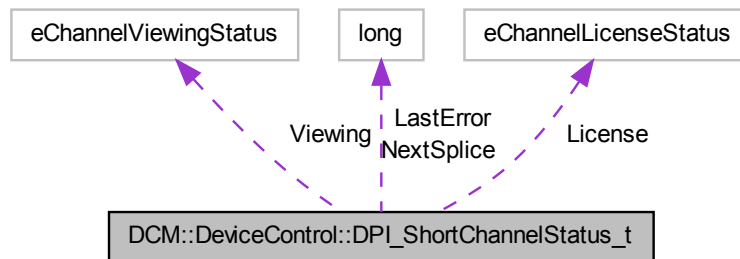
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.107 DCM::DeviceControl::DPI\_ShortChannelStatus\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DPI\_ShortChannelStatus\_t:



#### Public Attributes

- [eChannelLicenseStatus](#) License
- [eChannelViewingStatus](#) Viewing
- unsigned long [NextSplice](#)
- unsigned long [LastError](#)

#### 10.107.1 Detailed Description

Definition at line 17010 of file DCM.idl.

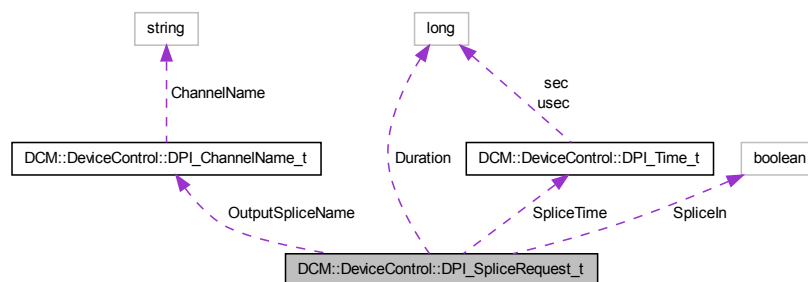
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.108 DCM::DeviceControl::DPI\_SpliceRequest\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DPI\_SpliceRequest\_t:



**Public Attributes**

- [DPI\\_ChannelName\\_t OutputSpliceName](#)  
*Identifies the spliceable output channel.*
- boolean [SpliceIn](#)  
*SpliceIn == true/false means switch to ad/main.*
- [DPI\\_Time\\_t SpliceTime](#)  
*SpliceTime == 0 means ASAP.*
- unsigned long [Duration](#)  
*Duration == 0 means FOREVER or until aborted.*

**10.108.1 Detailed Description**

Definition at line 17102 of file DCM.idl.

The documentation for this struct was generated from the following file:

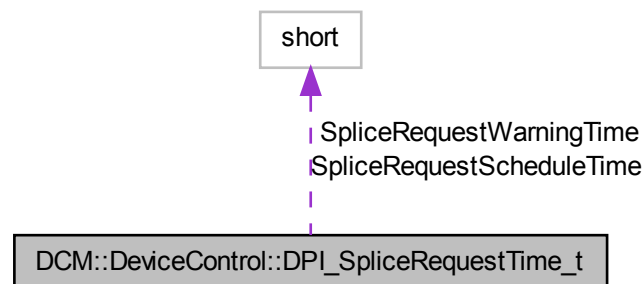
- [DCM.idl](#)

**10.109 DCM::DeviceControl::DPI\_SpliceRequestTime\_t Struct Reference**

A splice request is supposed to arrive a few seconds in advance of the actual splice time.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DPI\_SpliceRequestTime\_t:

**Public Attributes**

- unsigned short [SpliceRequestScheduleTime](#)  
*in seconds*
- unsigned short [SpliceRequestWarningTime](#)  
*in seconds*

### 10.109.1 Detailed Description

A splice request is supposed to arrive a few seconds in advance of the actual splice time.

If the request is not received at least "SpliceRequestScheduleTime" seconds in advance, the request will be refused. If the request is not received at least "SpliceRequestWarningTime" seconds in advance, a warning will be logged but the request will be accepted.

**Deprecated** Obsoleted in release 11.0

Definition at line 17096 of file DCM.idl.

The documentation for this struct was generated from the following file:

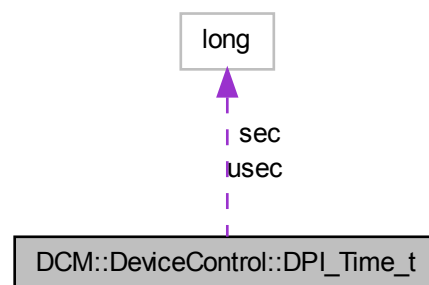
- [DCM.idl](#)

## 10.110 DCM::DeviceControl::DPI\_Time\_t Struct Reference

UTC since jan 1 1970.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DPI\_Time\_t:



### Public Attributes

- unsigned long [sec](#)
- unsigned long [usec](#)

### 10.110.1 Detailed Description

UTC since jan 1 1970.

Definition at line 17077 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

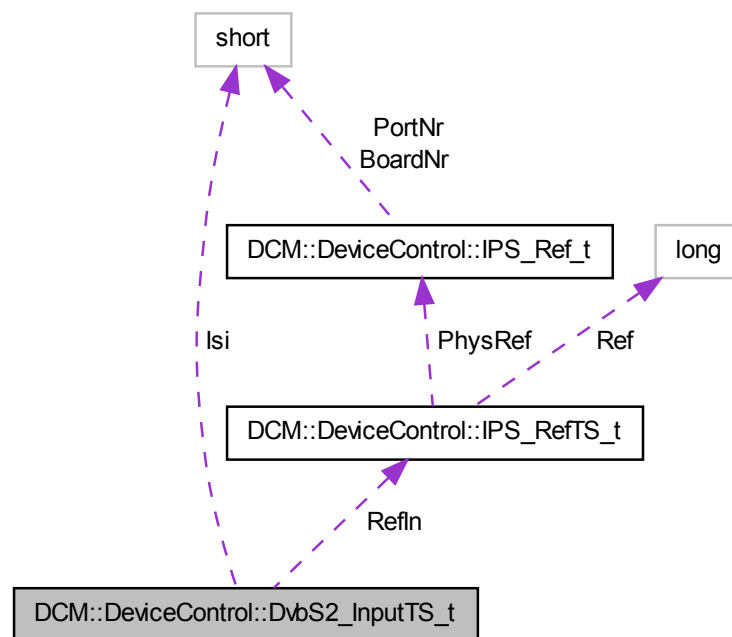


## 10.111 DCM::DeviceControl::DvbS2\_InputTS\_t Struct Reference

DvbS2 information of an incoming DVB-S2 input stream.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DvbS2\_InputTS\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)  
*Identifies the input stream (Board, Port and Ref).*
- [DvbS2\\_Isi\\_t Isi](#)  
*Input stream identifier (INVALID\_ISI in case of single stream).*

## 10.111.1 Detailed Description

DvbS2 information of an incoming DVB-S2 input stream.

Definition at line 7734 of file DCM.idl.

The documentation for this struct was generated from the following file:

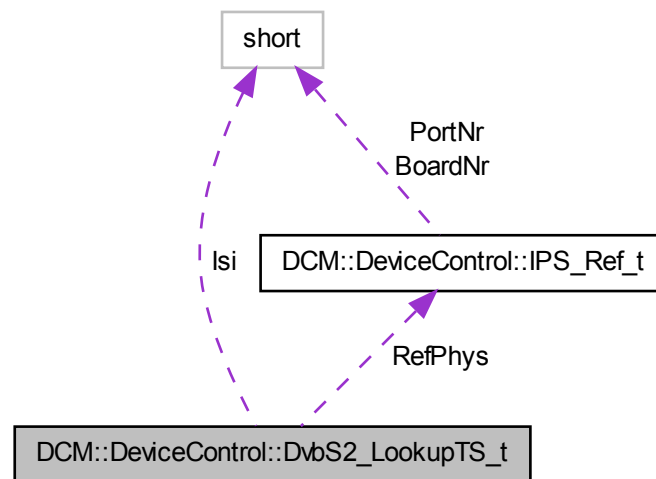
- [DCM.idl](#)

## 10.112 DCM::DeviceControl::DvbS2\_LookupTS\_t Struct Reference

Structure to find a specific TS by port and input stream identifier.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DvbS2\_LookupTS\_t:



### Public Attributes

- [IPS\\_Ref\\_t RefPhys](#)  
*Identifies the DVB-S2 port.*
- [DvbS2\\_Isi\\_t Isi](#)  
*Input stream identifier.*

### 10.112.1 Detailed Description

Structure to find a specific TS by port and input stream identifier.

Definition at line 7648 of file DCM.idl.

The documentation for this struct was generated from the following file:

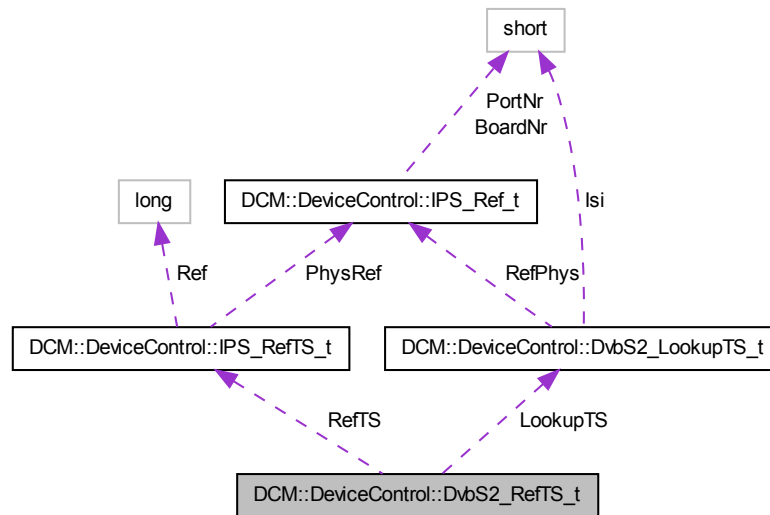
- [DCM.idl](#)

## 10.113 DCM::DeviceControl::DvbS2\_RefTS\_t Struct Reference

Structure containing the looked-up transport stream for a given lookupTS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::DvbS2\_RefTS\_t:



#### Public Attributes

- [DvbS2\\_LookupTS\\_t LookupTS](#)  
the TS that needed looking up.
- [IPS\\_RefTS\\_t RefTS](#)  
TS references of the looked up TS. If not found, RefTS.Ref is set to `INVALID_ITF_REF`.

#### 10.113.1 Detailed Description

Structure containing the looked-up transport stream for a given lookupTS.

Definition at line 7658 of file DCM.idl.

The documentation for this struct was generated from the following file:

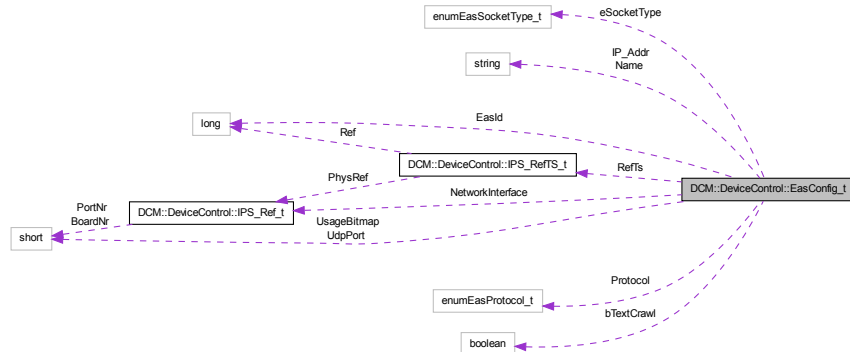
- [DCM.idl](#)

## 10.114 DCM::DeviceControl::EasConfig\_t Struct Reference

Represents the configuration of an EAS proxy.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::EasConfig\_t:



## Public Attributes

- unsigned long **EasId**  
*Identifies the EAS proxy.*
- **IPS\_Ref\_t** **NetworkInterface**  
*Specify BoardNr = 0 and PortNr = 0 for the 10/100 management network interface and PortNr = 1 for the GbE CA network interface.*
- unsigned short **UdpPort**  
*UDP port number the EAS proxy is listening on. When not yet yet configured UdpPort will be 0, meaning that the EAS proxy is not listening on a socket. UdpPorts are unique per network interface.*
- string **Name**  
*a user friendly name identifying the proxy. Names must be unique. Upper/lower case and white space are ignored in the uniqueness check.*
- **IPS\_RefTS\_t** **RefTs**  
*(Read-only) TS reference assigned to the newly created EAS proxy. This TS reference is to be used in the the SetSI\_Generation call. Note: the client SW should not make any assumptions on how the RefTs is generated. The only assurance is that the same RefTs will be assigned after a reboot.*
- **enumEasProtocol\_t** **Protocol**  
*protocol used by EAS proxy.*
- boolean **bTextCrawl**  
*enable participation of the proxy in text crawl generation.*
- **enumEasSocketType\_t** **eSocketType**  
*the type of socket. In case of multicast, also the IP\_Addr field must be filled in.*
- string **IP\_Addr**  
*IP address in case of multicast.*
- unsigned short **UsageBitmap**  
*(Read-only) bitmap showing the I/O boards using the proxy. bit0 = main board, bit1 = I/O board 1, bit2 = I/O board 2, etc.*

## 10.114.1 Detailed Description

Represents the configuration of an EAS proxy.

Definition at line 28983 of file DCM.idl.

The documentation for this struct was generated from the following file:

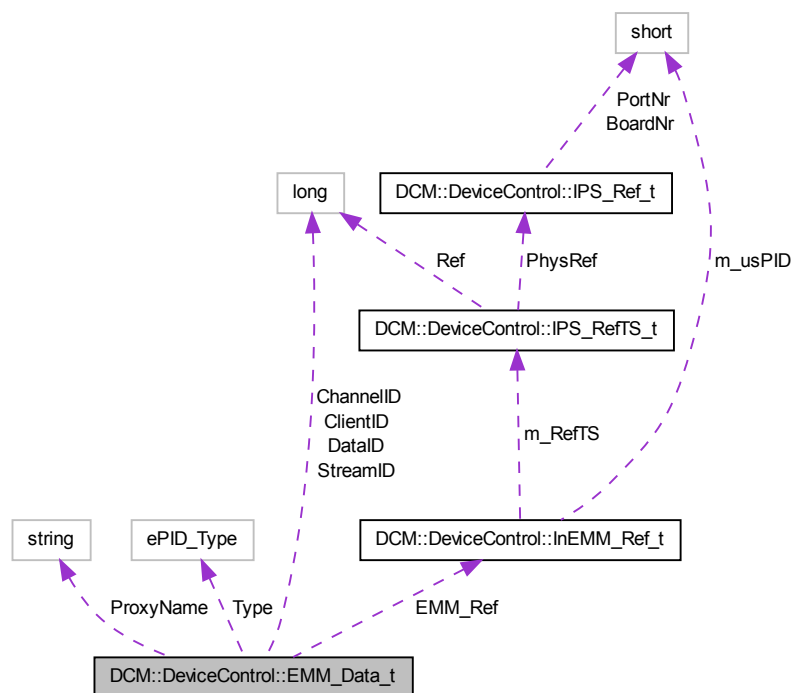
- [DCM.idl](#)

## 10.115 DCM::DeviceControl::EMM\_Data\_t Struct Reference

Identification of EMMG EMMs.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::EMM\_Data\_t:



## Public Attributes

- `string` [ProxyName](#)
- `ePID_Type` [Type](#)
- unsigned long [ClientID](#)
- unsigned long [ChannelID](#)
- unsigned long [StreamID](#)
- unsigned long [DataID](#)

- [InEMM\\_Ref\\_t EMM\\_Ref](#)

#### 10.115.1 Detailed Description

Identification of EMMG EMMs.

Definition at line 2633 of file DCM.idl.

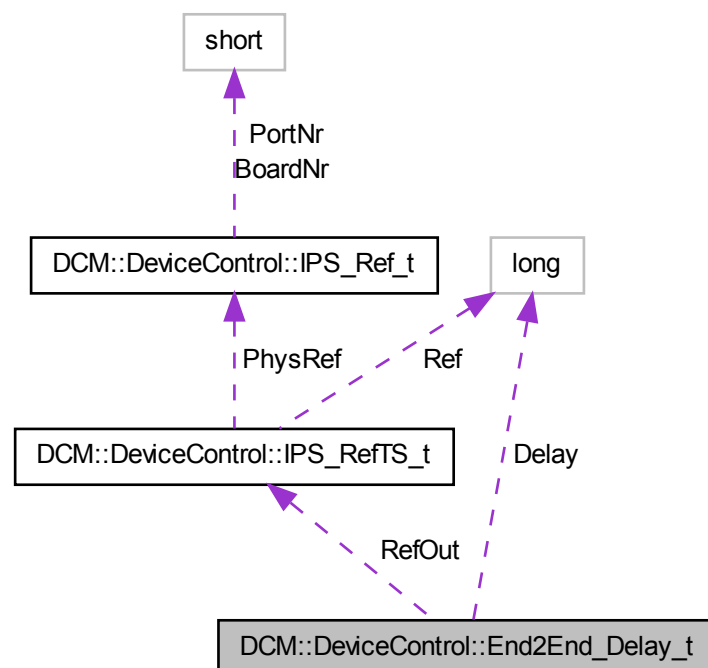
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.116 DCM::DeviceControl::End2End\_Delay\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::End2End\_Delay\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefOut](#)
- unsigned long [Delay](#)

## 10.116.1 Detailed Description

Definition at line 30213 of file DCM.idl.

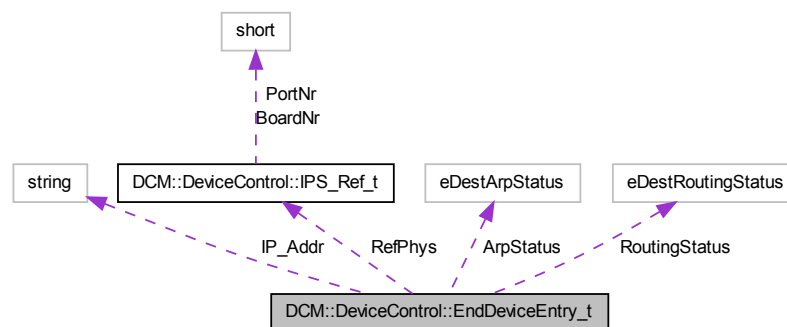
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.117 DCM::DeviceControl::EndDeviceEntry\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::EndDeviceEntry\_t:



## Public Attributes

- [string IP\\_Addr](#)
- [eDestRoutingStatus RoutingStatus](#)  
*routable or not*
- [eDestArpStatus ARPStatus](#)  
*1) if LAN: ARPStatus of end device 2) if GW: ARPStatus of GW*
- [IPS\\_Ref\\_t RefPhys](#)

## 10.117.1 Detailed Description

Definition at line 19032 of file DCM.idl.

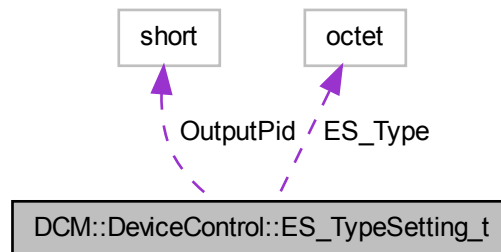
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.118 DCM::DeviceControl::ES\_TypeSetting\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ES\_TypeSetting\_t:



#### Public Attributes

- unsigned short [OutputPid](#)
- octet [ES\\_Type](#)

#### 10.118.1 Detailed Description

Definition at line 5847 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

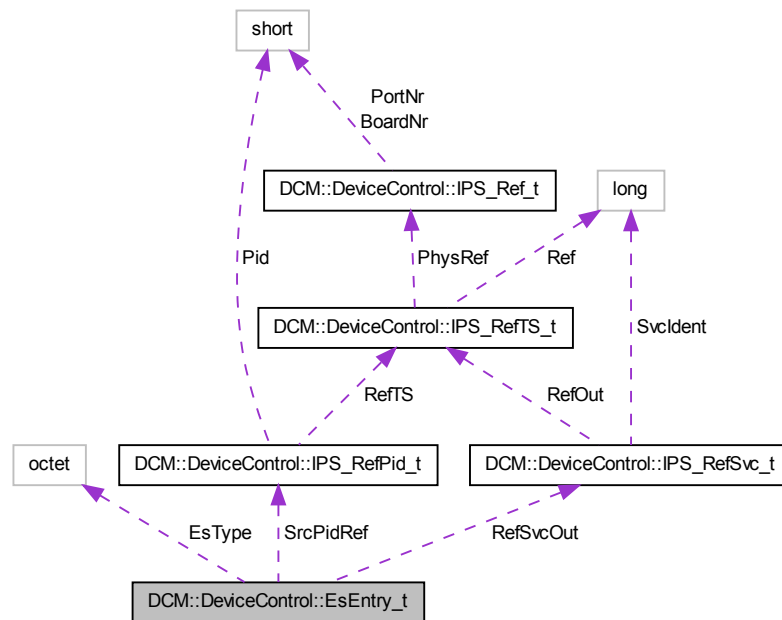
- [DCM.idl](#)

#### 10.119 DCM::DeviceControl::EsEntry\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::EsEntry\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t RefSvcOut](#)
- [IPS\\_RefPid\\_t SrcPidRef](#)
- `octet EsType`

### 10.119.1 Detailed Description

Definition at line 12867 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

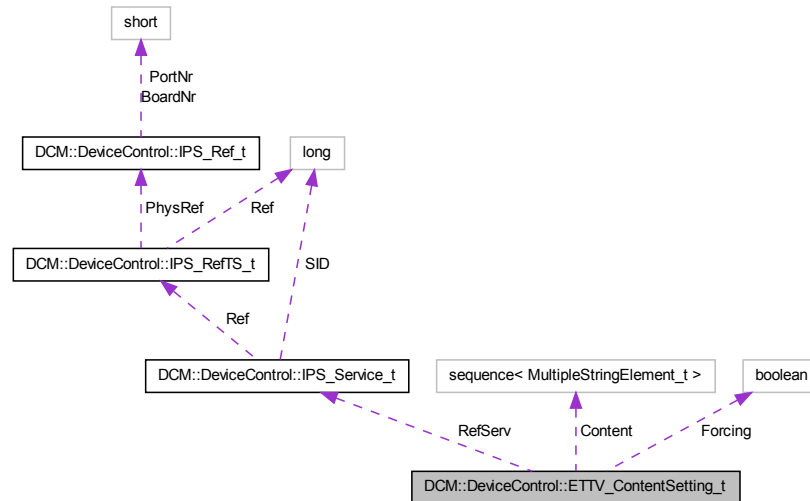
## 10.120 DCM::DeviceControl::ETTV\_ContentData\_t Struct Reference

Structure that contains status about the Content of an ETTV.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::ETTV\_ContentSetting\_t:



#### Public Attributes

- [IPS\\_Service\\_t](#) RefServ
- [MultipleString\\_t](#) Content
- boolean Forcing

#### 10.121.1 Detailed Description

Structure combining service-id with settings.

Definition at line 9640 of file DCM.idl.

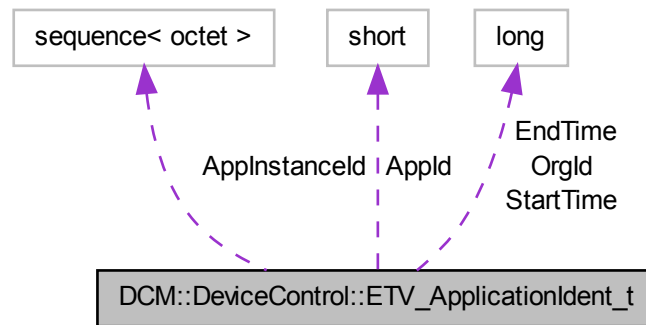
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.122 DCM::DeviceControl::ETV\_ApplicationIdent\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ETV\_ApplicationIdent\_t:



### Public Attributes

- unsigned long [OrgId](#)
- unsigned short [AppId](#)
- [AppInstanceId\\_t](#) [AppInstanceId](#)  
*Reseved for future use. Must be empty sequence.*
- unsigned long [StartTime](#)  
*Reseved for future use. Must be 0.*
- unsigned long [EndTime](#)  
*Reseved for future use. Must be 0xFFFFFFFF.*

#### 10.122.1 Detailed Description

Definition at line 17340 of file DCM.idl.

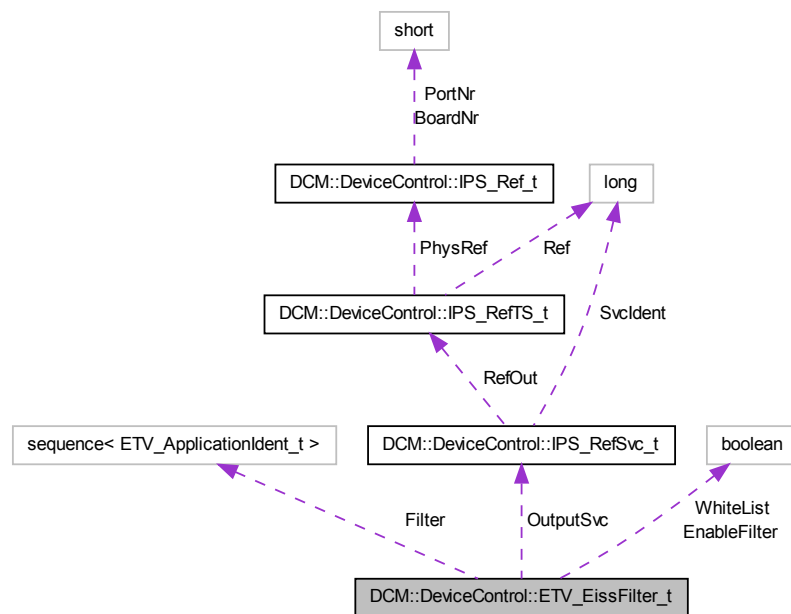
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.123 DCM::DeviceControl::ETV\_EissFilter\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ETV\_EissFilter\_t:



### Public Attributes

- `IPS_RefSvc_t` `OutputSvc`  
*Reference to the output service.*
- `boolean` `EnableFilter`  
*if true, the filter is enabled*
- `boolean` `WhiteList`  
*if true, the filter list is a white list and others are blocked*
- `ETV_ApplicationIdent_List_t` `Filter`

#### 10.123.1 Detailed Description

Definition at line 17351 of file `DCM.idl`.

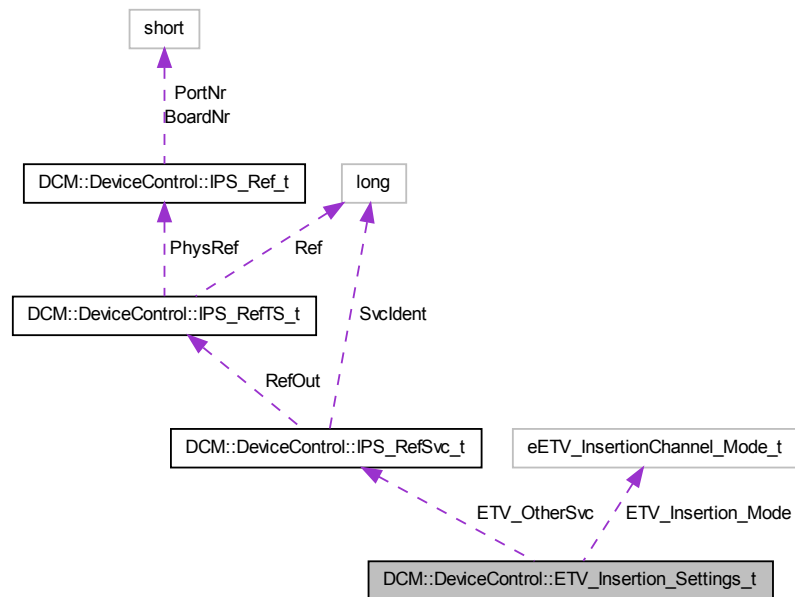
The documentation for this struct was generated from the following file:

- `DCM.idl`

## 10.124 DCM::DeviceControl::ETV\_Insertion\_Settings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ETV\_Insertion\_Settings\_t:



### Public Attributes

- [eETV\\_InsertionChannel\\_Mode\\_t](#) ETV\_Insertion\_Mode
- [IPS\\_RefSvc\\_t](#) ETV\_OtherSvc

*Only applicable if primary mode is eUseOtherServiceETV\_Pids.*

#### 10.124.1 Detailed Description

Definition at line 17166 of file DCM.idl.

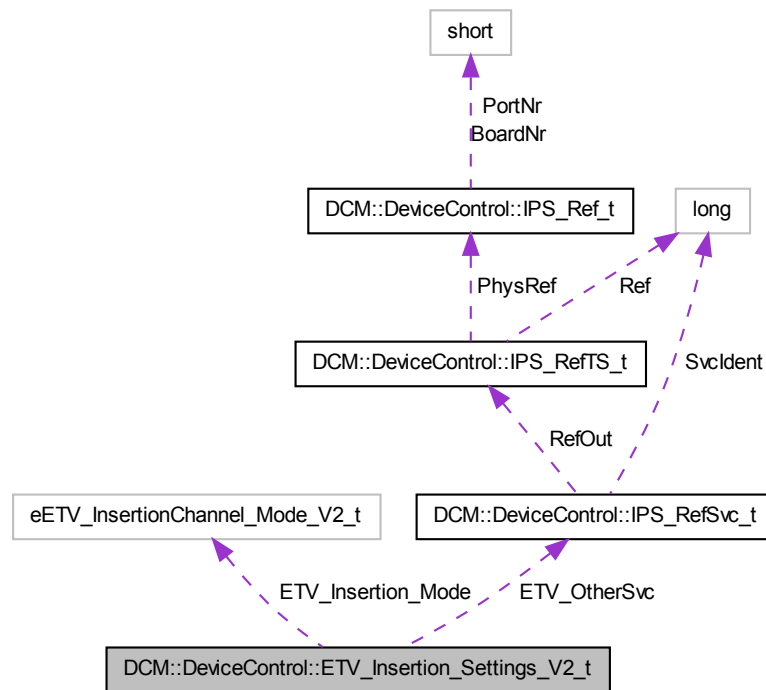
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.125 DCM::DeviceControl::ETV\_Insertion\_Settings\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ETV\_Insertion\_Settings\_V2\_t:



### Public Attributes

- [eETV\\_InsertionChannel\\_Mode\\_V2\\_t](#) [ETV\\_Insertion\\_Mode](#)
- [IPS\\_RefSvc\\_t](#) [ETV\\_OtherSvc](#)

*Only applicable if primary mode is eAdSvc\_V2\_UseOtherServiceETV\_Pids or eAdSvc\_V2\_MergeEISS\_Pids.*

### 10.125.1 Detailed Description

Definition at line 17285 of file DCM.idl.

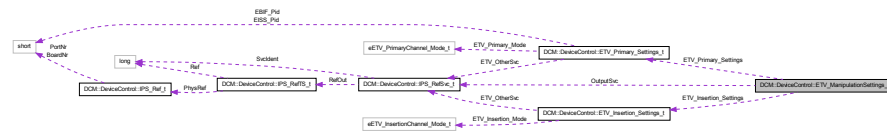
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.126 DCM::DeviceControl::ETV\_ManipulationSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ETV\_ManipulationSettings\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t OutputSvc](#)  
*Reference to the output service.*
- [ETV\\_Primary\\_Settings\\_t ETV\\_Primary\\_Settings](#)
- [ETV\\_Insertion\\_Settings\\_t ETV\\_Insertion\\_Settings](#)

### 10.126.1 Detailed Description

Definition at line 17172 of file DCM.idl.

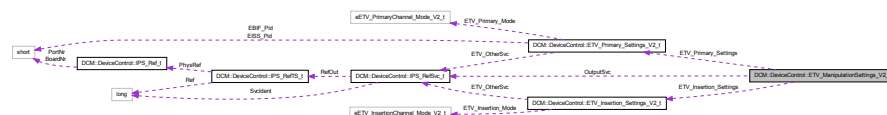
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.127 DCM::DeviceControl::ETV\_ManipulationSettings\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ETV\_ManipulationSettings\_V2\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t OutputSvc](#)  
*Reference to the output service.*
- [ETV\\_Primary\\_Settings\\_V2\\_t ETV\\_Primary\\_Settings](#)
- [ETV\\_Insertion\\_Settings\\_V2\\_t ETV\\_Insertion\\_Settings](#)

### 10.127.1 Detailed Description

Definition at line 17292 of file DCM.idl.

The documentation for this struct was generated from the following file:

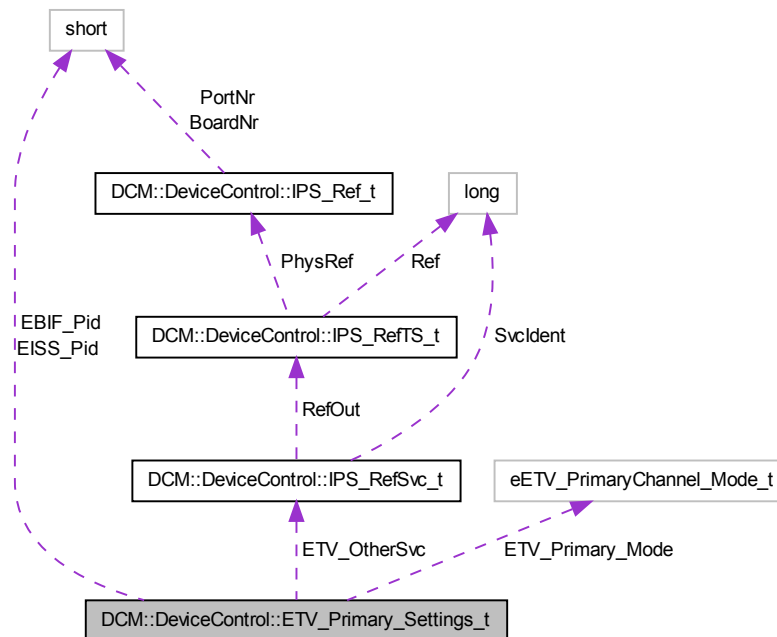
- [DCM.idl](#)



## 10.128 DCM::DeviceControl::ETV\_Primary\_Settings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ETV\_Primary\_Settings\_t:



## Public Attributes

- [eETV\\_PrimaryChannel\\_Mode\\_t](#) [ETV\\_Primary\\_Mode](#)
- [IPS\\_RefSvc\\_t](#) [ETV\\_OtherSvc](#)  
Only applicable if primary mode is *eUseOtherServiceETV\_Pids*.
- unsigned short [EISS\\_Pid](#)  
Only applicable if primary mode is *eUseDummyETV\_Pids*.
- unsigned short [EBIF\\_Pid](#)  
Only applicable if primary mode is *eUseDummyETV\_Pids*.

## 10.128.1 Detailed Description

Definition at line 17150 of file DCM.idl.

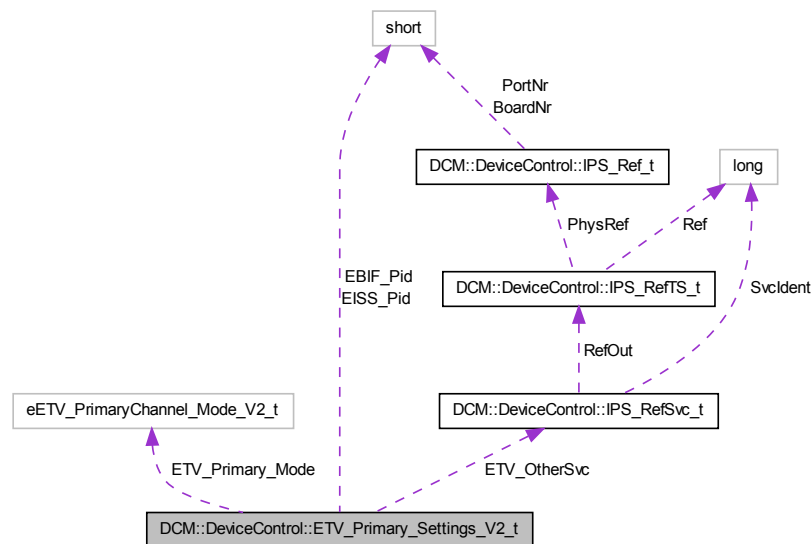
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.129 DCM::DeviceControl::ETV\_Primary\_Settings\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ETV\_Primary\_Settings\_V2\_t:



## Public Attributes

- [eETV\\_PrimaryChannel\\_Mode\\_V2\\_t](#) [ETV\\_Primary\\_Mode](#)
- [IPS\\_RefSvc\\_t](#) [ETV\\_OtherSvc](#)

*Only applicable if primary mode is eMainSvc\_V2\_UseOtherServiceETV\_Pids or eMainSvc\_V2\_MergeEISS\_Pids.*

- unsigned short [EISS\\_Pid](#)

*Only applicable if primary mode is eUseDummyETV\_Pids.*

- unsigned short [EBIF\\_Pid](#)

*Only applicable if primary mode is eUseDummyETV\_Pids.*

## 10.129.1 Detailed Description

Definition at line 17262 of file DCM.idl.

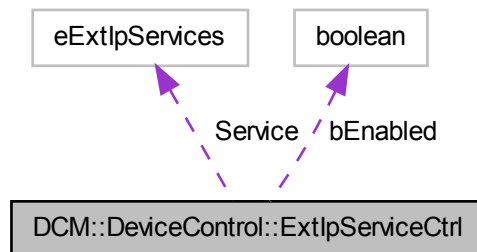
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.130 DCM::DeviceControl::ExtIpServiceCtrl Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ExtIpServiceCtrl:



#### Public Attributes

- [eExtIpServices Service](#)
- boolean [bEnabled](#)

#### 10.130.1 Detailed Description

Definition at line 24574 of file `DCM.idl`.

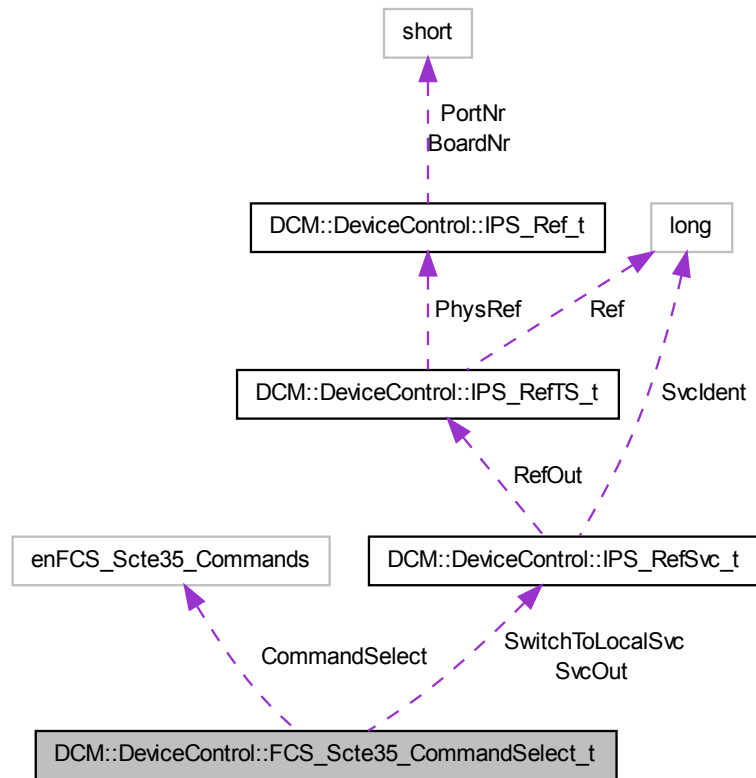
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.131 DCM::DeviceControl::FCS\_Scte35\_CommandSelect\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::FCS\_Scte35\_CommandSelect\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t SvcOut](#)
- [enFCS\\_Scte35\\_Commands CommandSelect](#)
- [IPS\\_RefSvc\\_t SwitchToLocalSvc](#)

### 10.131.1 Detailed Description

Definition at line 8772 of file `DCM.idl`.

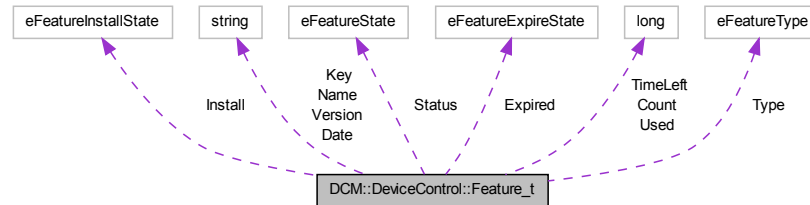
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.132 DCM::DeviceControl::Feature\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Feature\_t:



### Public Attributes

- [eFeatureState](#) [Status](#)
- [eFeatureInstallState](#) [Install](#)
- [eFeatureType](#) [Type](#)
- [eFeatureExpireState](#) [Expired](#)
- [string](#) [Name](#)  
*Max string length 36.*
- [string](#) [Version](#)  
*Max string length 36.*
- [string](#) [Date](#)  
*Max string length 36.*
- [string](#) [Key](#)  
*Max string length 36.*
- [long](#) [Count](#)
- [long](#) [Used](#)
- [long](#) [TimeLeft](#)

#### 10.132.1 Detailed Description

Definition at line 20531 of file DCM.idl.

The documentation for this struct was generated from the following file:

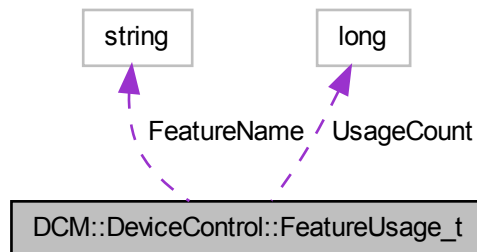
- [DCM.idl](#)

### 10.133 DCM::DeviceControl::FeatureUsage\_t Struct Reference

Represents the license usage count per feature.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::FeatureUsage\_t:



#### Public Attributes

- string [FeatureName](#)  
*unique name identifying the feature.*
- long [UsageCount](#)  
*the number of licenses in use for this feature.*

#### 10.133.1 Detailed Description

Represents the license usage count per feature.

Definition at line 20695 of file DCM.idl.

The documentation for this struct was generated from the following file:

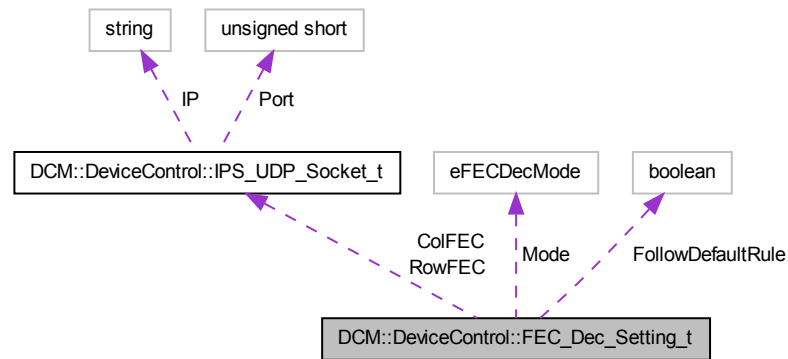
- [DCM.idl](#)

### 10.134 DCM::DeviceControl::FEC\_Dec\_Setting\_t Struct Reference

FEC decoder settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::FEC\_Dec\_Setting\_t:



#### Public Attributes

- [eFECDecMode Mode](#)
- [IPS\\_UDP\\_Socket\\_t ColFEC](#)
- [IPS\\_UDP\\_Socket\\_t RowFEC](#)
- [boolean FollowDefaultRule](#)

*readonly flag indicating if FEC Default Rule settings are used*

#### 10.134.1 Detailed Description

FEC decoder settings.

Definition at line 19119 of file DCM.idl.

The documentation for this struct was generated from the following file:

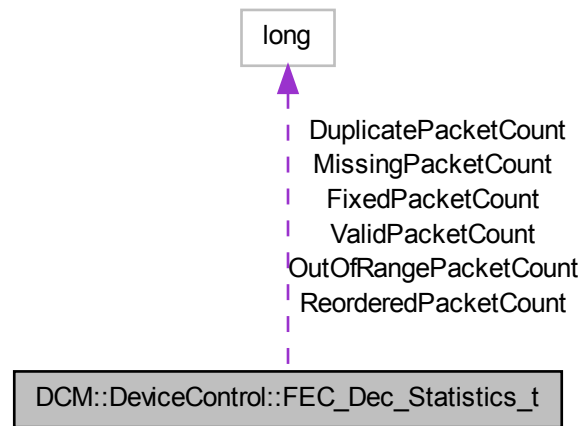
- [DCM.idl](#)

#### 10.135 DCM::DeviceControl::FEC\_Dec\_Statistics\_t Struct Reference

FEC decoder statistics.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::FEC\_Dec\_Statistics\_t:



### Public Attributes

- unsigned long long [ValidPacketCount](#)
- unsigned long long [MissingPacketCount](#)
- unsigned long long [FixedPacketCount](#)
- unsigned long long [DuplicatePacketCount](#)
- unsigned long long [ReorderedPacketCount](#)
- unsigned long long [OutOfRangePacketCount](#)

### 10.135.1 Detailed Description

FEC decoder statistics.

Definition at line 19154 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

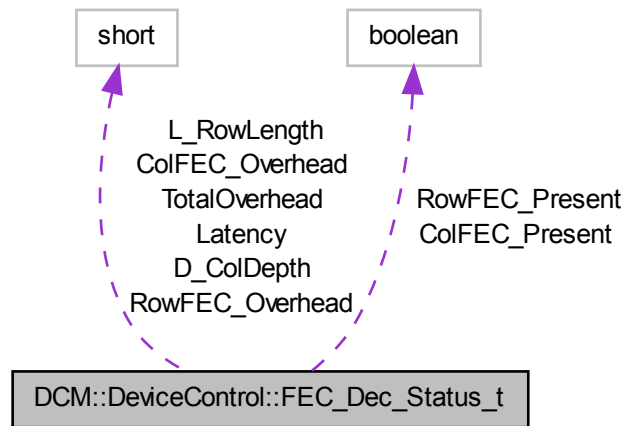
## 10.136 DCM::DeviceControl::FEC\_Dec\_Status\_t Struct Reference

FEC decoder status.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::FEC\_Dec\_Status\_t:



### Public Attributes

- boolean [ColFEC\\_Present](#)
- boolean [RowFEC\\_Present](#)
- unsigned short [D\\_ColDepth](#)
- unsigned short [L\\_RowLength](#)
- unsigned short [ColFEC\\_Overhead](#)  
*in percentage fixed point 2 digit (x100)*
- unsigned short [RowFEC\\_Overhead](#)  
*in percentage fixed point 2 digit (x100)*
- unsigned short [TotalOverhead](#)  
*in percentage fixed point 2 digit (x100)*
- unsigned short [Latency](#)  
*in ms fixed point 1 digit (x10)*

#### 10.136.1 Detailed Description

FEC decoder status.

Definition at line 19175 of file DCM.idl.

The documentation for this struct was generated from the following file:

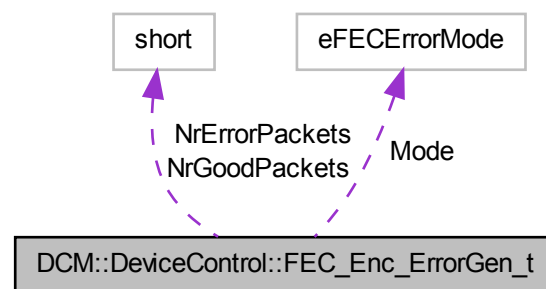
- [DCM.idl](#)

### 10.137 DCM::DeviceControl::FEC\_Enc\_ErrorGen\_t Struct Reference

FEC error generation parameters.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::FEC\_Enc\_ErrorGen\_t:



#### Public Attributes

- [eFECErrorMode Mode](#)
- unsigned short [NrGoodPackets](#)  
*number of good packets (IPGW: range 1..65535)*
- unsigned short [NrErrorPackets](#)  
*number of error packets (IPGW: range 1..512)*

#### 10.137.1 Detailed Description

FEC error generation parameters.

Definition at line 19436 of file DCM.idl.

The documentation for this struct was generated from the following file:

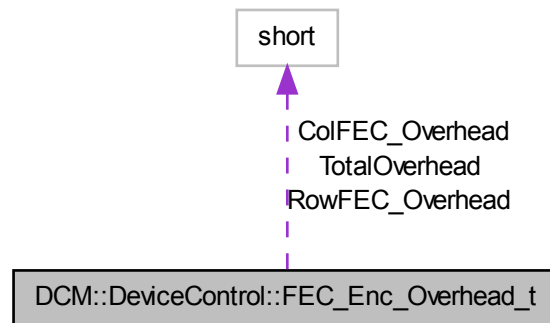
- [DCM.idl](#)

### 10.138 DCM::DeviceControl::FEC\_Enc\_Overhead\_t Struct Reference

Bitrate overhead, due to FEC encoding.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::FEC\_Enc\_Overhead\_t:



#### Public Attributes

- unsigned short [ColFEC\\_Overhead](#)  
*in percentage fixed point 2 digit (x100), e.g. 10% -> 1000*
- unsigned short [RowFEC\\_Overhead](#)  
*in percentage fixed point 2 digit (x100), e.g. 10% -> 1000*
- unsigned short [TotalOverhead](#)  
*in percentage fixed point 2 digit (x100), e.g. 10% -> 1000*

#### 10.138.1 Detailed Description

Bitrate overhead, due to FEC encoding.

Definition at line 19451 of file DCM.idl.

The documentation for this struct was generated from the following file:

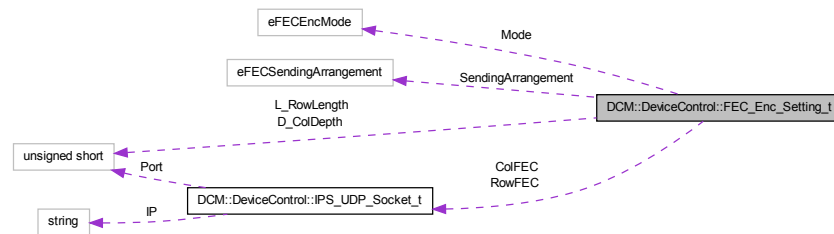
- [DCM.idl](#)

### 10.139 DCM::DeviceControl::FEC\_Enc\_Setting\_t Struct Reference

FEC encoder settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::FEC\_Enc\_Setting\_t:



### Public Attributes

- [eFECEncMode Mode](#)  
*default value is FEC disabled*
- [eFECSendingArrangement SendingArrangement](#)  
*for 4.0 release, SendingArrangement must always be ePRO\_MPEG\_COP3\_ANNEX\_B*
- [IPS\\_UDP\\_Socket\\_t ColFEC](#)  
*for 4.0 release, IP = IP TS and UDP = UDP TS + 2*
- [IPS\\_UDP\\_Socket\\_t RowFEC](#)  
*for 4.0 release, IP = IP TS and UDP = UDP TS + 4*
- unsigned short [D\\_ColDepth](#)  
*default value D = 6*
- unsigned short [L\\_RowLength](#)  
*default value L = 10*

### 10.139.1 Detailed Description

FEC encoder settings.

Definition at line 19366 of file DCM.idl.

The documentation for this struct was generated from the following file:

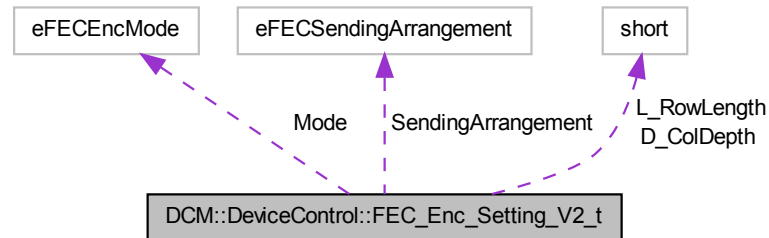
- [DCM.idl](#)

## 10.140 DCM::DeviceControl::FEC\_Enc\_Setting\_V2\_t Struct Reference

FEC encoder settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::FEC\_Enc\_Setting\_V2\_t:



### Public Attributes

- [eFECEncMode Mode](#)  
*default value is FEC disabled*
- [eFECSendingArrangement SendingArrangement](#)  
*for 4.0 release, SendingArrangement must always be ePRO\_MPEG\_COP3\_ANNEX\_B*
- unsigned short [D\\_ColDepth](#)  
*default value D = 6*
- unsigned short [L\\_RowLength](#)  
*default value L = 10*

### 10.140.1 Detailed Description

FEC encoder settings.

Definition at line 19389 of file DCM.idl.

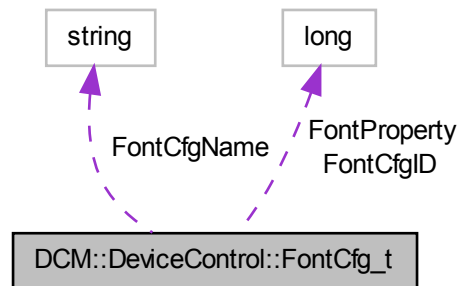
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.141 DCM::DeviceControl::FontCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::FontCfg\_t:



#### Public Attributes

- [FontCfgID\\_t FontCfglD](#)  
*unique font configuration identifier (must be 0 when adding a new font configuration)*
- [string FontCfgName](#)  
*font configuration name, maximum 64 characters*
- [unsigned long FontProperty](#)  
*Read only Bitmap.*

#### 10.141.1 Detailed Description

Definition at line 13782 of file `DCM.idl`.

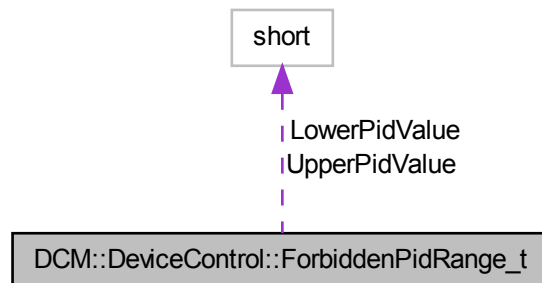
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.142 DCM::DeviceControl::ForbiddenPidRange\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ForbiddenPidRange\_t:



#### Public Attributes

- unsigned short [LowerPidValue](#)  
*Lower limit of the forbidden pid range.*
- unsigned short [UpperPidValue](#)  
*Upper limit of the forbidden pid range (should be > LowerPidValue)*

#### 10.142.1 Detailed Description

Definition at line 3720 of file `DCM.idl`.

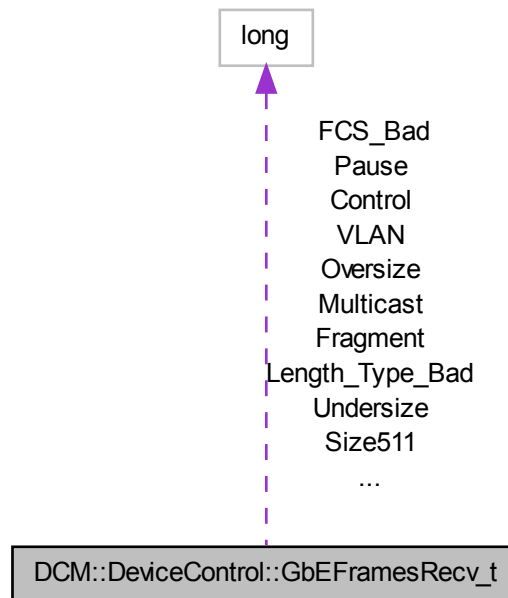
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.143 DCM::DeviceControl::GbEFramesRecv\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::GbEFramesRecv\_t:



### Public Attributes

- unsigned long long [Total](#)  
*< Statistics about received frames*
- unsigned long long [Broadcast](#)  
*Broadcast frames.*
- unsigned long long [Multicast](#)  
*Multicast frames.*
- unsigned long long [Size64](#)  
*64 byte frames*
- unsigned long long [Size127](#)  
*65-127 byte frames*
- unsigned long long [Size255](#)  
*128-255 byte frames*
- unsigned long long [Size511](#)  
*256-511 byte frames*
- unsigned long long [Size1023](#)  
*512-1023 byte frames*
- unsigned long long [SizeMax](#)  
*1024-max byte frames*
- unsigned long long [Oversize](#)



- Oversize frames.*
  - unsigned long long [Control](#)
- Control frames.*
  - unsigned long long [VLAN](#)
- VLAN tagged frames.*
  - unsigned long long [Pause](#)
- Pause Frames.*
  - unsigned long long [FCS\\_Bad](#)
- FCS/CRC error.*
  - unsigned long long [Length\\_Type\\_Bad](#)
- Length/Type out of range.*
  - unsigned long long [Opcode\\_Bad](#)
- Invalid Opcode.*
  - unsigned long long [Undersize](#)
- Undersized frames.*
  - unsigned long long [Fragment](#)
- Fragments.*

#### 10.143.1 Detailed Description

Definition at line 19855 of file DCM.idl.

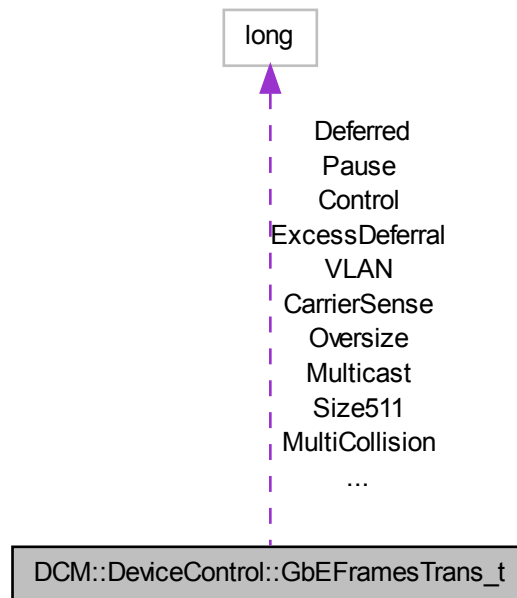
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.144 DCM::DeviceControl::GbEFramesTrans\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::GbEFramesTrans\_t:



### Public Attributes

- unsigned long long [Total](#)  
*< Statistics about transmitted frames*
- unsigned long long [Broadcast](#)  
*Broadcast frames.*
- unsigned long long [Multicast](#)  
*Multicast frames.*
- unsigned long long [Control](#)  
*Control frames.*
- unsigned long long [Size64](#)  
*64 byte frames*
- unsigned long long [Size127](#)  
*65-127 byte frames*
- unsigned long long [Size255](#)  
*128-255 byte frames*
- unsigned long long [Size511](#)  
*256-511 byte frames*
- unsigned long long [Size1023](#)  
*512-1023 byte frames*
- unsigned long long [SizeMax](#)

- 1024-max byet frames*
- unsigned long long [VLAN](#)  
*VLAN tagged frames.*
- unsigned long long [Pause](#)  
*Pause frames.*
- unsigned long long [Oversize](#)  
*Oversized frames.*
- unsigned long long [Underrun](#)  
*Buffer underrun Following items are -- not to be used -- since they are not applicable in Full-Duplex mode while GbE always runs in Full-Duplex mode.*
- unsigned long long [SingleCollision](#)  
*Single collision.*
- unsigned long long [MultiCollision](#)  
*Multiple collisions.*
- unsigned long long [Deferred](#)  
*Deferred frames.*
- unsigned long long [LateCollision](#)  
*Late collisions.*
- unsigned long long [CollisionAbort](#)  
*Frames aborted by collisions.*
- unsigned long long [CarrierSense](#)  
*No carrier sense.*
- unsigned long long [ExcessDeferral](#)  
*Excess deferral end of -- not to be used --.*

#### 10.144.1 Detailed Description

Definition at line 19875 of file DCM.idl.

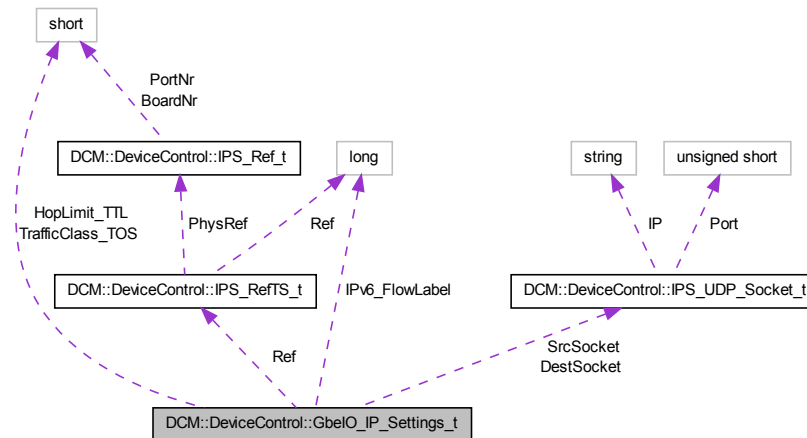
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.145 DCM::DeviceControl::GbEIO\_IP\_Settings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::GbeIO\_IP\_Settings\_t:



## Public Attributes

- [IPS\\_RefTS\\_t Ref](#)  
*Reference to the output stream.*
- [IPS\\_UDP\\_Socket\\_t DestSocket](#)  
*Unique destination IPv4 or IPv6-Address and UDP port combination.*
- [IPS\\_UDP\\_Socket\\_t SrcSocket](#)  
*for future use*
- unsigned short [TrafficClass\\_TOS](#)  
*for future use - default value 0*
- unsigned short [HopLimit\\_TTL](#)  
*for future use - default value 64*
- unsigned long [IPv6\\_FlowLabel](#)  
*for future use - default value 0*

### 10.145.1 Detailed Description

Definition at line 3306 of file DCM.idl.

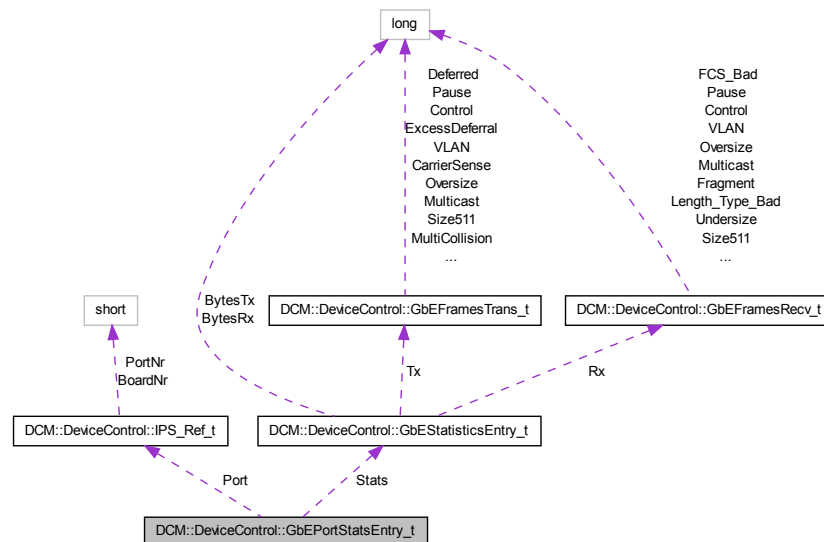
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.146 DCM::DeviceControl::GbEPortStatsEntry\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::GbEPortStatsEntry\_t:



## Public Attributes

- [IPS\\_Ref\\_t Port](#)  
*The port for which the stats apply.*
- [GbEStatisticsEntry\\_t Stats](#)  
*The statistics.*

## 10.146.1 Detailed Description

Definition at line 19911 of file DCM.idl.

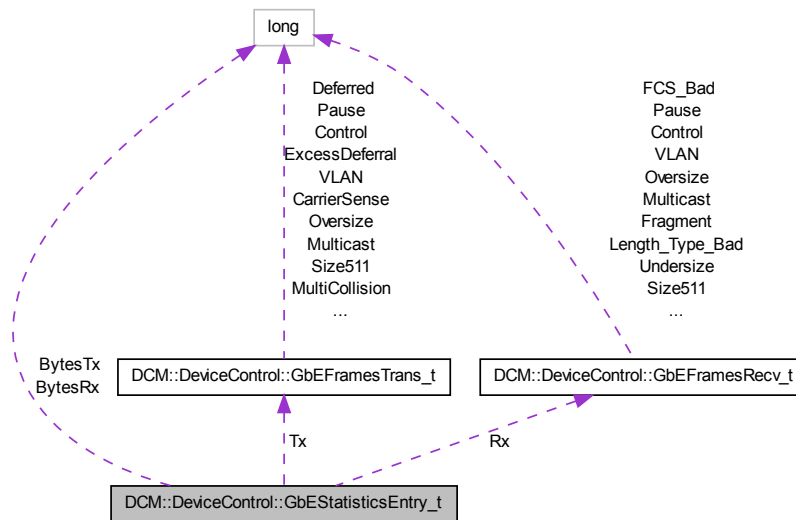
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.147 DCM::DeviceControl::GbEStatisticsEntry\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::GbEStatisticsEntry\_t:



### Public Attributes

- [GbEFramesRecv\\_t Rx](#)
- [GbEFramesTrans\\_t Tx](#)
- unsigned long long [BytesRx](#)  
*Bytes received.*
- unsigned long long [BytesTx](#)  
*Bytes transmitted.*

### 10.147.1 Detailed Description

Definition at line 19902 of file DCM.idl.

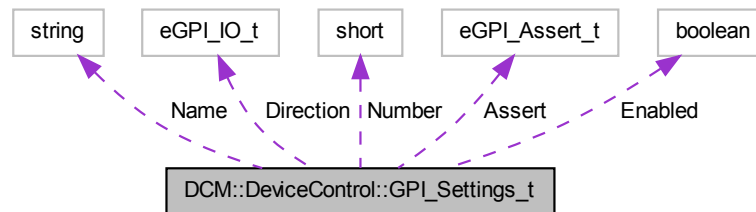
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.148 DCM::DeviceControl::GPI\_Settings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::GPI\_Settings\_t:



### Public Attributes

- unsigned short [Number](#)  
*gpi pin number (1 to 5)*
- string [Name](#)  
*name of the gpi pin indicating the function*
- [eGPI\\_IO\\_t](#) [Direction](#)  
*gpi pin direction*
- [eGPI\\_Assert\\_t](#) [Assert](#)  
*gpi assert level*
- boolean [Enabled](#)  
*gpi contact enabled if true*

#### 10.148.1 Detailed Description

Definition at line 31574 of file DCM.idl.

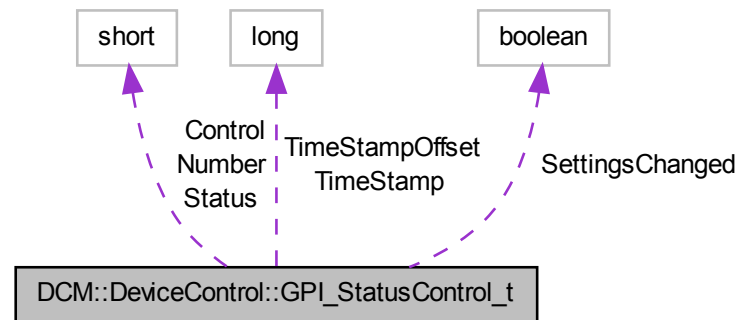
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.149 DCM::DeviceControl::GPI\_StatusControl\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::GPI\_StatusControl\_t:



#### Public Attributes

- boolean [SettingsChanged](#)  
*gpi pin configuration changed*
- unsigned short [Number](#)  
*gpi pin number*
- unsigned short [Status](#)  
*current gpi pin status (readout pin)*
- unsigned short [Control](#)  
*current gpi pin control (drive pin)*
- unsigned long [TimeStamp](#)  
*gpi local timestamp, changed status (seconds since 00:00:00 UTC, January 1, 1970)*
- unsigned long [TimeStampOffset](#)  
*offset in microseconds since TimeStamp*

#### 10.149.1 Detailed Description

Definition at line 31585 of file DCM.idl.

The documentation for this struct was generated from the following file:

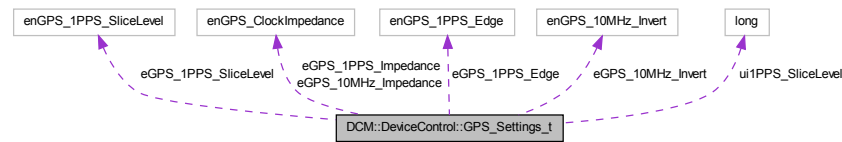
- [DCM.idl](#)

#### 10.150 DCM::DeviceControl::GPS\_Settings\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::GPS\_Settings\_t:



### Public Attributes

- [enGPS\\_ClockImpedance](#) [eGPS\\_1PPS\\_Impedance](#)
- [enGPS\\_ClockImpedance](#) [eGPS\\_10MHz\\_Impedance](#)
- [enGPS\\_1PPS\\_SliceLevel](#) [eGPS\\_1PPS\\_SliceLevel](#)
- [unsigned long](#) [ui1PPS\\_SliceLevel](#)  
*value in mV, range 0..5000mV, steps of 50mV*
- [enGPS\\_1PPS\\_Edge](#) [eGPS\\_1PPS\\_Edge](#)
- [enGPS\\_10MHz\\_Invert](#) [eGPS\\_10MHz\\_Invert](#)

#### 10.150.1 Detailed Description

Definition at line 29087 of file DCM.idl.

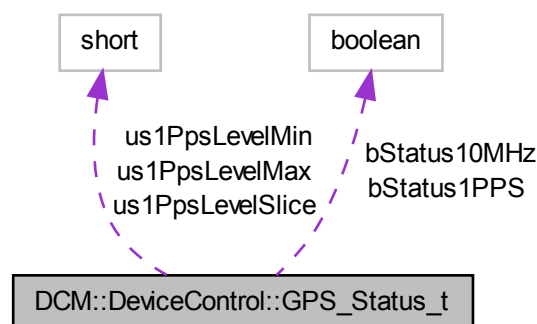
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.151 DCM::DeviceControl::GPS\_Status\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::GPS\_Status\_t:



## Public Attributes

- boolean [bStatus10MHz](#)
- boolean [bStatus1PPS](#)
- unsigned short [us1PpsLevelMin](#)
- unsigned short [us1PpsLevelMax](#)
- unsigned short [us1PpsLevelSlice](#)

## 10.151.1 Detailed Description

Definition at line 29182 of file DCM.idl.

The documentation for this struct was generated from the following file:

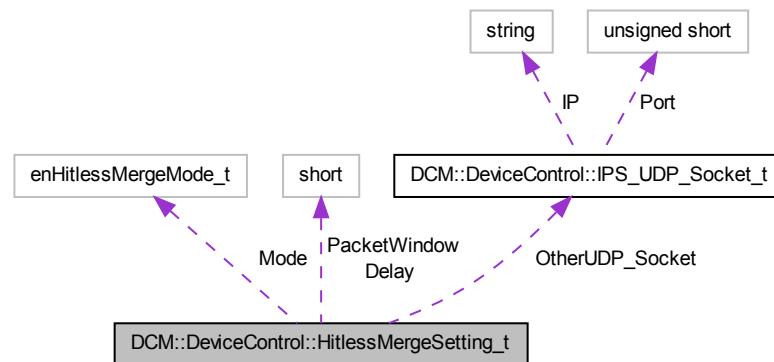
- [DCM.idl](#)

## 10.152 DCM::DeviceControl::HitlessMergeSetting\_t Struct Reference

Hitless merge input TS settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::HitlessMergeSetting\_t:



## Public Attributes

- [enHitlessMergeMode\\_t Mode](#)
- [IPS\\_UDP\\_Socket\\_t OtherUDP\\_Socket](#)  
*this is only valid when Mode is eHitlessMergeMode\_EnabledOtherUDP\_Socket*
- unsigned short [PacketWindow](#)  
*For future use, will read 0.*
- unsigned short [Delay](#)  
*in ms fixed point 1 digit (x10), read only*

### 10.152.1 Detailed Description

Hitless merge input TS settings.

Definition at line 19672 of file DCM.idl.

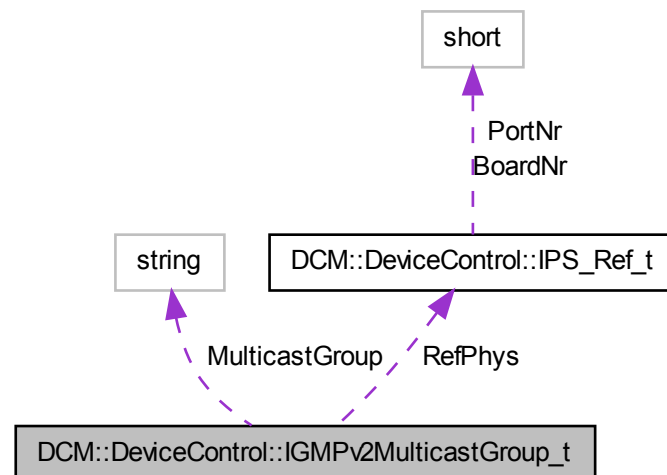
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.153 DCM::DeviceControl::IGMPv2MulticastGroup\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IGMPv2MulticastGroup\_t:



### Public Attributes

- `string MulticastGroup`
- `IPS_Ref_t RefPhys`

### 10.153.1 Detailed Description

Definition at line 20007 of file DCM.idl.

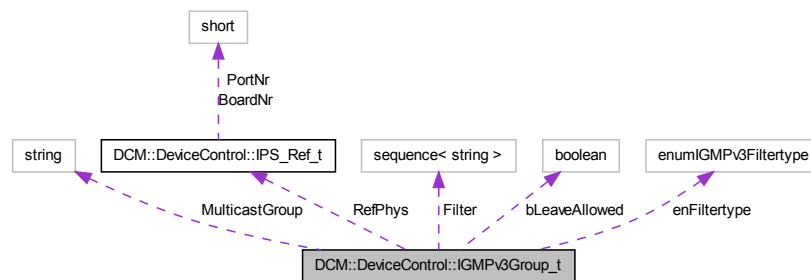
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.154 DCM::DeviceControl::IGMPv3Group\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IGMPv3Group\_t:



### Public Attributes

- [IPS\\_Ref\\_t](#) RefPhys
- string MulticastGroup
- boolean bLeaveAllowed
- [enumIGMPv3Filtertype](#) enFiltertype
- sequence< string > Filter

### 10.154.1 Detailed Description

Definition at line 20124 of file DCM.idl.

The documentation for this struct was generated from the following file:

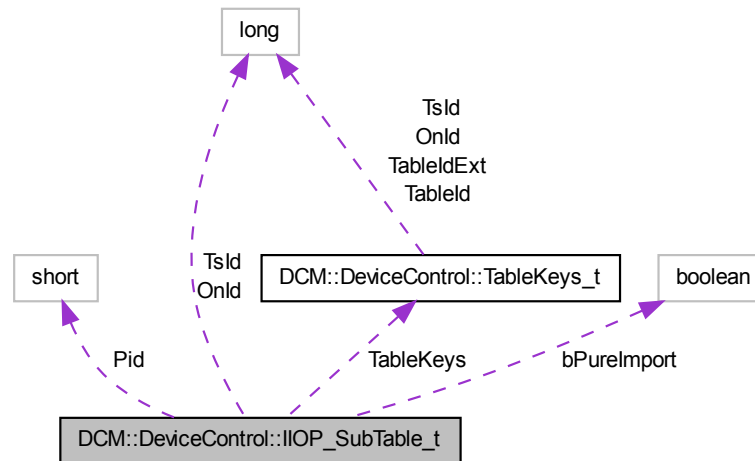
- [DCM.idl](#)

## 10.155 DCM::DeviceControl::IIOP\_SubTable\_t Struct Reference

Structure containing the properties a SubTable provisioned via IIOP.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IIOP\_SubTable\_t:



### Public Attributes

- unsigned long [OnId](#)  
*original network ID of targeted output TS.*
- unsigned long [TsId](#)  
*transport stream ID of targeted output TS.*
- [TableKeys\\_t](#) [TableKeys](#)  
*identifies the sub-table.*
- unsigned short [Pid](#)  
*the output PID where the sub-table is played out.*
- boolean [bPureImport](#)  
*indicates if playout is identical to binary data. This parameter is not taken into account in the Delete-ImportedSubTableL call.*

#### 10.155.1 Detailed Description

Structure containing the properties a SubTable provisioned via IIOP.

Definition at line 8391 of file DCM.idl.

The documentation for this struct was generated from the following file:

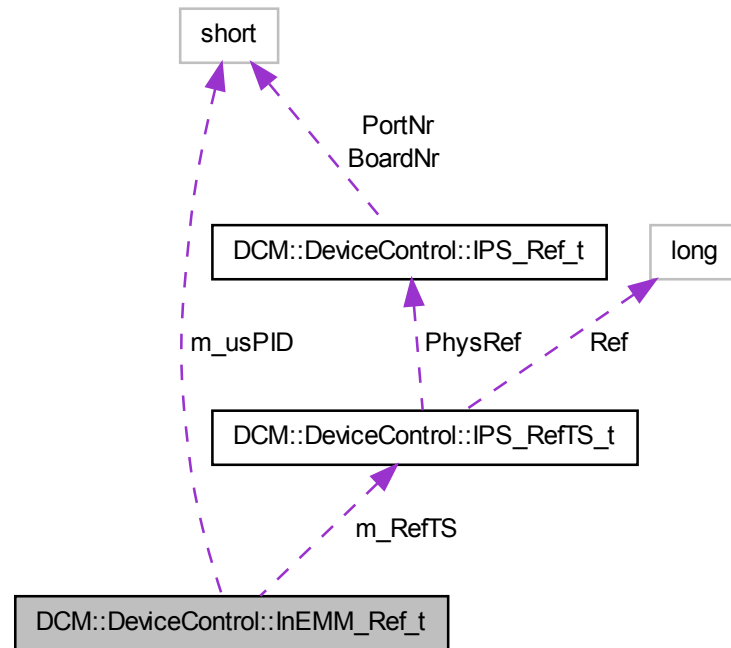
- [DCM.idl](#)

### 10.156 DCM::DeviceControl::InEMM\_Ref\_t Struct Reference

Identification of which PID to be created/deleted. Note this is duplicated by RefPid\_t but must remain for backwards compatability.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InEMM\_Ref\_t:



### Public Attributes

- [IPS\\_RefTS\\_t m\\_RefTS](#)  
*The Slot, Port and Index of the input TS.*
- unsigned short [m\\_usPID](#)  
*The reference to the input EMM pid.*

#### 10.156.1 Detailed Description

Identification of which PID to be created/deleted. Note this is duplicated by RefPid\_t but must remain for backwards compatability.

Definition at line 2624 of file DCM.idl.

The documentation for this struct was generated from the following file:

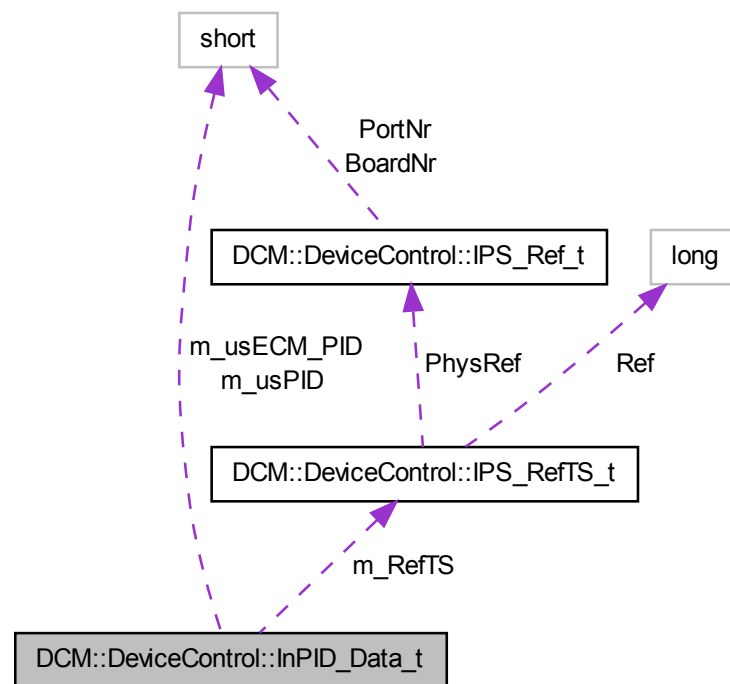
- [DCM.idl](#)

## 10.157 DCM::DeviceControl::InPID\_Data\_t Struct Reference

Identification of which PID to be (un)blocked.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InPID\_Data\_t:



### Public Attributes

- [IPS\\_RefTS\\_t m\\_RefTS](#)  
*The Slot, Port and Index of the input TS.*
- unsigned short [m\\_usPID](#)  
*The reference to the input pid to be blocked Is a service ES pid or EMM pid at TS level when m\_ulOutputSID is INVALID\_SID\_VALUE.*
- unsigned short [m\\_usECM\\_PID](#)  
*Value of the ES ECMPID at the input TS when PID is valid or the ECM pid at service level.*

### 10.157.1 Detailed Description

Identification of which PID to be (un)blocked.

Definition at line 5710 of file DCM.idl.

The documentation for this struct was generated from the following file:

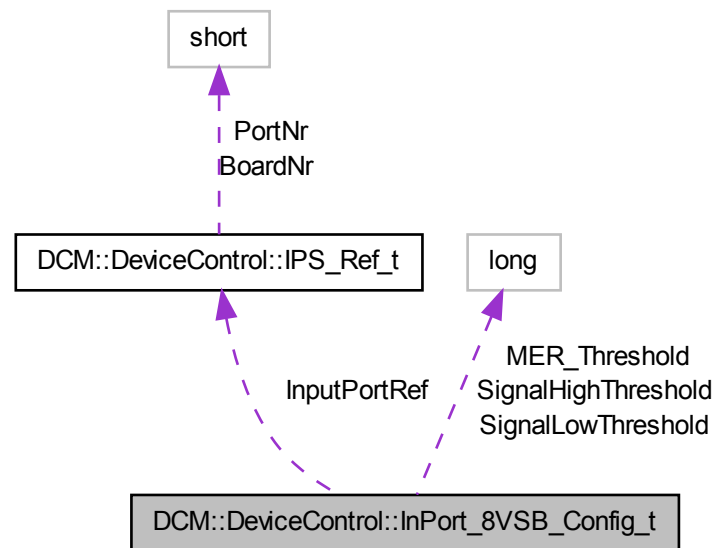
- [DCM.idl](#)

## 10.158 DCM::DeviceControl::InPort\_8VSB\_Config\_t Struct Reference

Represents the 8VSB input port specific settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InPort\_8VSB\_Config\_t:



### Public Attributes

- [IPS\\_Ref\\_t](#) [InputPortRef](#)  
*Reference of the 8VSB input port.*
- long [SignalLowThreshold](#)  
*In dBm. Valid range is -80 to -20.*
- long [SignalHighThreshold](#)  
*In dBm. Valid range is -80 to -20.*
- unsigned long [MER\\_Threshold](#)  
*in dB. Valid range is 15 to 35.*

#### 10.158.1 Detailed Description

Represents the 8VSB input port specific settings.



The SignalHighThreshold must be equal to or greater than the SignalLowThreshold.

#### Version

Release 8.1

Release 8.5 MER threshold range has been restricted to 15..35 (instead of 0..40).

Definition at line 7098 of file DCM.idl.

The documentation for this struct was generated from the following file:

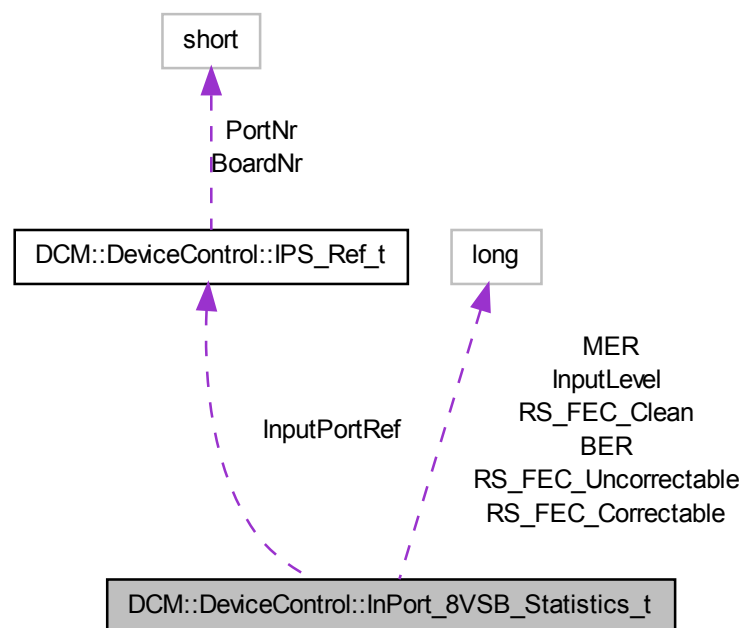
- [DCM.idl](#)

### 10.159 DCM::DeviceControl::InPort\_8VSB\_Statistics\_t Struct Reference

Defines the statistics that can be retrieved per 8VSB input port.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InPort\_8VSB\_Statistics\_t:



#### Public Attributes

- [IPS\\_Ref\\_t](#) [InputPortRef](#)  
*Reference of the 8VSB input port.*
- long [InputLevel](#)

Signal level in dBm. If the input level is out of range the InputLevel is set to the minimum or maximum long value, e.g. 2147483647 in case of above measurement range or -2147483648 in case of below measurement range.

- unsigned long [MER](#)  
*Modulation Error Ratio in dB.*
- long [BER](#)  
*(future) Bit Error Rate (errored bits per second).*
- unsigned long long [RS\\_FEC\\_Correctable](#)  
*Number of correctable RS FEC errors.*
- unsigned long long [RS\\_FEC\\_Uncorrectable](#)  
*Number of uncorrectable RS FEC errors.*
- unsigned long long [RS\\_FEC\\_Clean](#)  
*Number of clean RS blocks.*

### 10.159.1 Detailed Description

Defines the statistics that can be retrieved per 8VSB input port.

Fields indicated for future use will get a default value, e.g. 0.

#### Version

Release 8.1

Definition at line 7114 of file DCM.idl.

The documentation for this struct was generated from the following file:

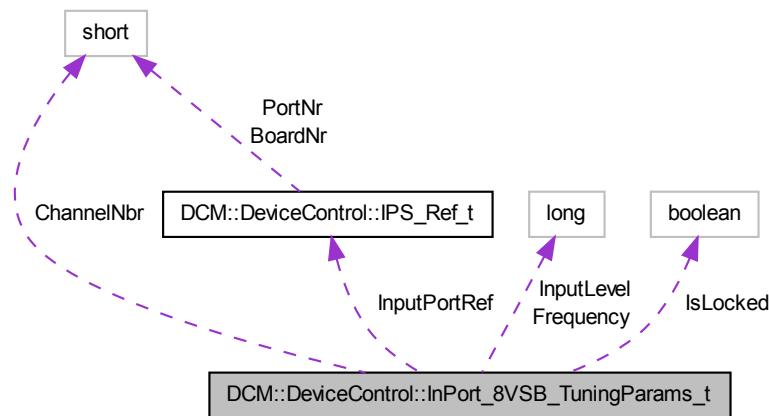
- [DCM.idl](#)

### 10.160 DCM::DeviceControl::InPort\_8VSB\_TuningParams\_t Struct Reference

Tuning parameters for an 8VSB input port.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InPort\_8VSB\_TuningParams\_t:



## Public Attributes

- [IPS\\_Ref\\_t](#) [InputPortRef](#)  
*Reference of the input port.*
- [short](#) [ChannelNbr](#)  
*A value from 1 to 82. Negative if frequency is used.*
- [unsigned long](#) [Frequency](#)  
*In KHz. Valid range is 47000 to 885000, multiples of 125.*
- [boolean](#) [IsLocked](#)  
*Output parameter indicating whether tuner is locked to channel.*
- [long](#) [InputLevel](#)  
*Output parameter indicating signal level in dBm. If the input level is out of range the InputLevel is set to the minimum or maximum long value, e.g. 2147483647 in case of above measurement range or -2147483648 in case of below measurement range.*

### 10.160.1 Detailed Description

Tuning parameters for an 8VSB input port.

The selection of the channel can be done by means of the ChannelNbr or the Frequency. If the ChannelNbr is a non-negative value, the ChannelNbr will be used for tuning (the frequency corresponding to the channel number is used). The Frequency is ignored in that case. In order to tune to a custom frequency, the ChannelNbr must be set to a negative value, e.g. -1 and a valid frequency needs to be filled in.

## Version

Release 8.1

Definition at line 7077 of file DCM.idl.

The documentation for this struct was generated from the following file:

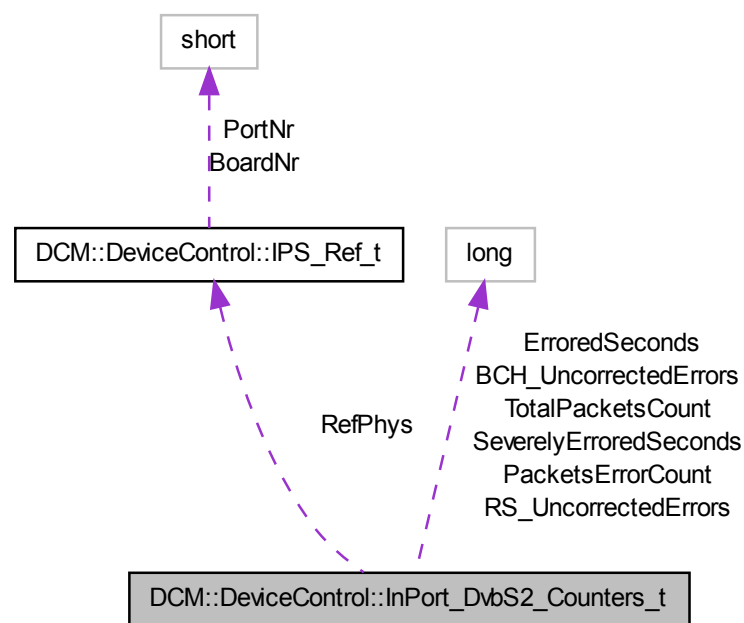
- [DCM.idl](#)

## 10.161 DCM::DeviceControl::InPort\_DvbS2\_Counters\_t Struct Reference

Structure containing the different counters per DVB S2 port.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InPort\_DvbS2\_Counters\_t:



### Public Attributes

- [IPS\\_Ref\\_t](#) *RefPhys*  
*port identifier*
- unsigned long long [BCH\\_UncorrectedErrors](#)
- unsigned long long [RS\\_UncorrectedErrors](#)
- unsigned long long [ErroredSeconds](#)
- unsigned long long [SeverelyErroredSeconds](#)
- unsigned long long [PacketsErrorCount](#)
- unsigned long long [TotalPacketsCount](#)

### 10.161.1 Detailed Description

Structure containing the different counters per DVB S2 port.

Definition at line 7588 of file DCM.idl.

The documentation for this struct was generated from the following file:

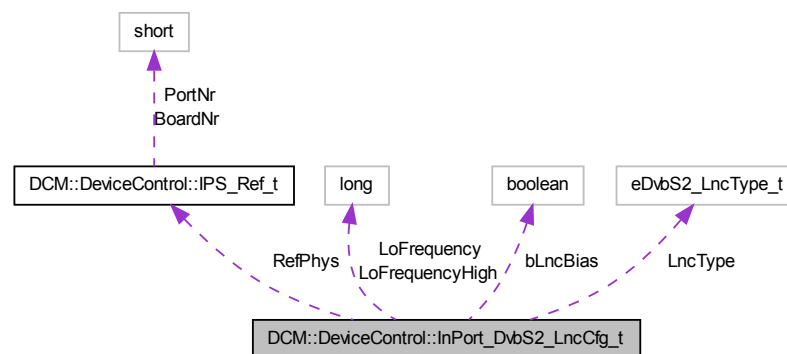
- [DCM.idl](#)

## 10.162 DCM::DeviceControl::InPort\_DvbS2\_LncCfg\_t Struct Reference

Structure used to configure the DVB S2 LNC.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InPort\_DvbS2\_LncCfg\_t:



### Public Attributes

- [IPS\\_Ref\\_t RefPhys](#)  
*port identifier*
- [eDvbS2\\_LncType\\_t LncType](#)  
*single band / dual band*
- unsigned long [LoFrequency](#)  
*(single + dual) 1000000..20000000 KHz, step 125 KHz*
- unsigned long [LoFrequencyHigh](#)  
*(dual only) 1000000..20000000 KHz, step 125 KHz*
- boolean [bLncBias](#)  
*true to enable, false to disable (default)*

### 10.162.1 Detailed Description

Structure used to configure the DVB S2 LNC.

Definition at line 7483 of file DCM.idl.

The documentation for this struct was generated from the following file:

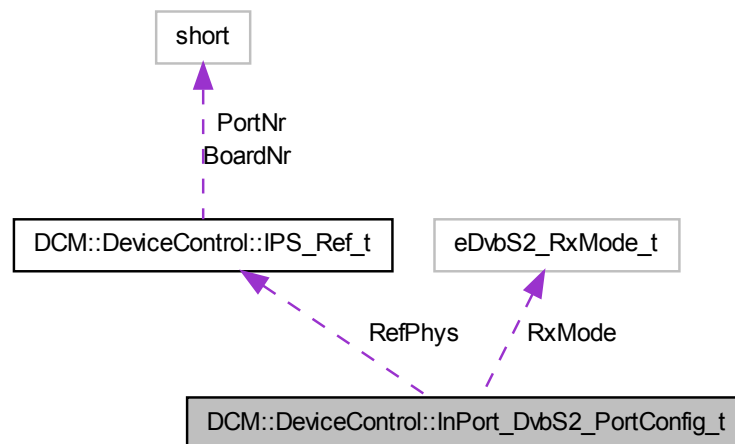
- [DCM.idl](#)

## 10.163 DCM::DeviceControl::InPort\_DvbS2\_PortConfig\_t Struct Reference

Structure used to configure single stream or multi-stream mode per port.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InPort\_DvbS2\_PortConfig\_t:



### Public Attributes

- [IPS\\_Ref\\_t RefPhys](#)  
*port identifier*
- [eDvbS2\\_RxMode\\_t RxMode](#)  
*single stream of multi-stream mode.*

#### 10.163.1 Detailed Description

Structure used to configure single stream or multi-stream mode per port.

Definition at line 7384 of file DCM.idl.

The documentation for this struct was generated from the following file:

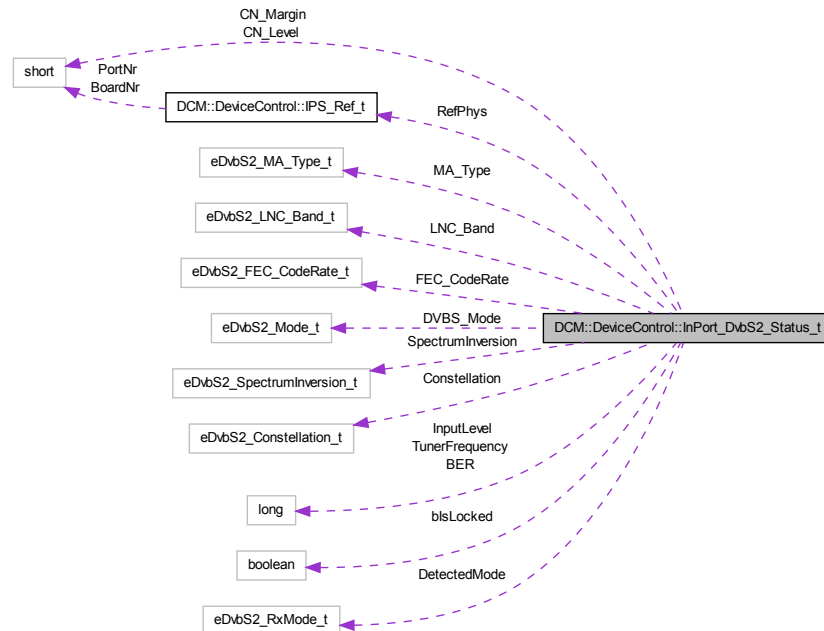
- [DCM.idl](#)

## 10.164 DCM::DeviceControl::InPort\_DvbS2\_Status\_t Struct Reference

Structure used to retrieve status information of a DVB S2 port.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InPort\_DvbS2\_Status\_t:



## Public Attributes

- [IPS\\_Ref\\_t](#) [RefPhys](#)  
*port identifier*
- [boolean](#) [bIsLocked](#)  
*true if locked, false if not locked*
- [long](#) [InputLevel](#)
- [short](#) [CN\\_Level](#)
- [short](#) [CN\\_Margin](#)
- [unsigned long](#) [BER](#)  
*units of 1E-10. Eg. 1000 represents 1E-7.*
- [eDvbS2\\_Mode\\_t](#) [DVBS\\_Mode](#)  
*Detected mode: DVB-S or DVB-S2.*
- [eDvbS2\\_Constellation\\_t](#) [Constellation](#)  
*Constellation.*
- [eDvbS2\\_FEC\\_CodeRate\\_t](#) [FEC\\_CodeRate](#)  
*FEC code rate.*
- [unsigned long](#) [TunerFrequency](#)  
*950000 ' 2150000 KHz*
- [eDvbS2\\_LNC\\_Band\\_t](#) [LNC\\_Band](#)  
*actual RF band (low or high)*
- [eDvbS2\\_SpectrumInversion\\_t](#) [SpectrumInversion](#)
- [eDvbS2\\_RxMode\\_t](#) [DetectedMode](#)

*single stream or multi-stream detected.*

- [eDvbS2\\_MA\\_Type\\_t MA\\_Type](#)

*Coding and modulation type.*

#### 10.164.1 Detailed Description

Structure used to retrieve status information of a DVB S2 port.

Remarks: When the port is not locked, following fields are not relevant:

- CN\_Level
- CN\_Margin
- BER
- DVBS\_Mode
- Constellation
- FEC\_CodeRate
- SpectrumInversion
- DetectedMode
- MA\_Type

The BER, CN\_Margin, FEC\_CodeRate and Constellation are only valid if the MA\_Type is equal to CCM (constant coding and modulation).

Definition at line 7545 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

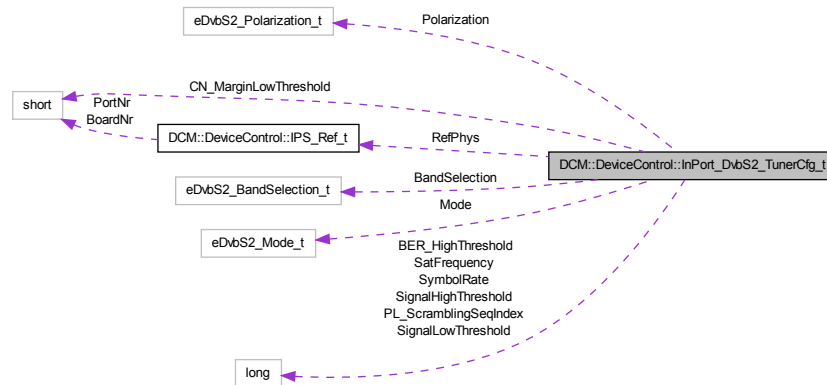
#### 10.165 DCM::DeviceControl::InPort\_DvbS2\_TunerCfg\_t Struct Reference

Structure used to configure the DVB S2 tuner.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::InPort\_DvbS2\_TunerCfg\_t:



## Public Attributes

- [IPS\\_Ref\\_t RefPhys](#)  
*port identifier*
- [eDvbS2\\_Mode\\_t Mode](#)  
*auto, DVB-S, DVB-S2*
- unsigned long [SatFrequency](#)  
*in KHz*
- unsigned long [SymbolRate](#)  
*in KSym/s (1000..45000)*
- [eDvbS2\\_Polarization\\_t Polarization](#)  
*horizontal or vertical*
- [eDvbS2\\_BandSelection\\_t BandSelection](#)  
*auto, forced low, forced high*
- long [SignalLowThreshold](#)
- long [SignalHighThreshold](#)
- unsigned short [CN\\_MarginLowThreshold](#)  
*1..10 dB. Units of 0.1 dB. Eg. 105 represents 10,5 dB*
- unsigned long [BER\\_HighThreshold](#)  
*units of 1E-10. Valid values : 1, 10, 100, 1000, 10000, 100000, 1000000, 2000000 (corresponds to 1E-10 1E-9 1E-8 1E-7 1E-6 1E-5 1E-4 2E-4).*
- unsigned long [PL\\_ScramblingSeqIndex](#)  
*0..262141*

### 10.165.1 Detailed Description

Structure used to configure the DVB S2 tuner.

Definition at line 7428 of file DCM.idl.

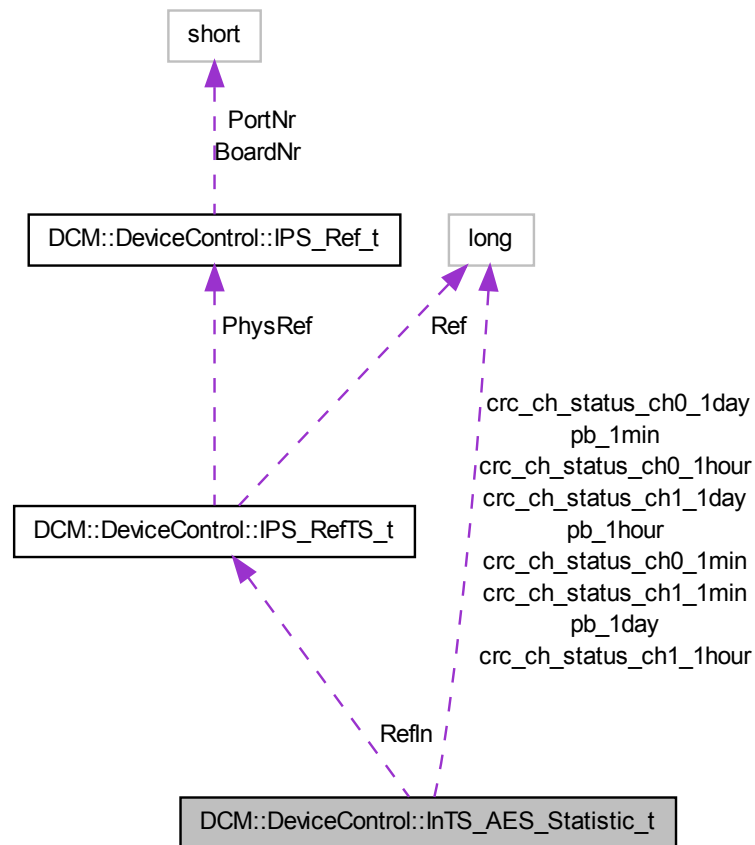
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.166 DCM::DeviceControl::InTS\_AES\_Statistic\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InTS\_AES\_Statistic\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)  
*Reference of input.*
- unsigned long [pb\\_1min](#)  
*AES parity errors over the last minute.*
- unsigned long [pb\\_1hour](#)  
*AES parity errors over the last hour.*
- unsigned long [pb\\_1day](#)  
*AES parity errors over the last day.*
- unsigned long [crc\\_ch\\_status\\_ch0\\_1min](#)  
*AES channel 0 channel status CRC errors over the last minute.*

- unsigned long [crc\\_ch\\_status\\_ch0\\_1hour](#)  
*AES channel 0 channel status CRC errors over the last hour.*
- unsigned long [crc\\_ch\\_status\\_ch0\\_1day](#)  
*AES channel 0 channel status CRC errors over the last day.*
- unsigned long [crc\\_ch\\_status\\_ch1\\_1min](#)  
*AES channel 0 channel status CRC errors over the last minute.*
- unsigned long [crc\\_ch\\_status\\_ch1\\_1hour](#)  
*AES channel 0 channel status CRC errors over the last hour.*
- unsigned long [crc\\_ch\\_status\\_ch1\\_1day](#)  
*AES channel 0 channel status CRC errors over the last day.*

### 10.166.1 Detailed Description

Definition at line 30927 of file DCM.idl.

The documentation for this struct was generated from the following file:

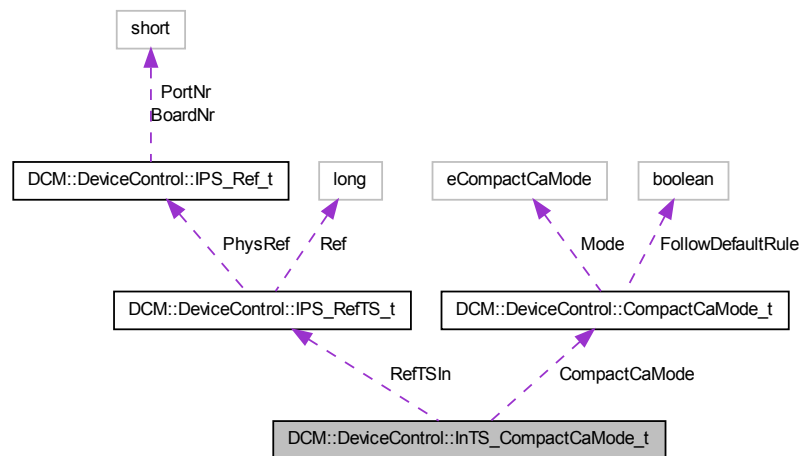
- [DCM.idl](#)

## 10.167 DCM::DeviceControl::InTS\_CompactCaMode\_t Struct Reference

Compact CA descriptor settings for specific TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InTS\_CompactCaMode\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTSIn](#)
- [CompactCaMode\\_t CompactCaMode](#)

### 10.167.1 Detailed Description

Compact CA descriptor settings for specific TS.

Definition at line 8114 of file DCM.idl.

The documentation for this struct was generated from the following file:

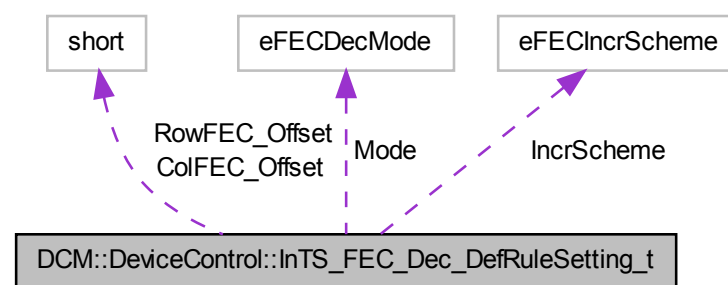
- [DCM.idl](#)

## 10.168 DCM::DeviceControl::InTS\_FEC\_Dec\_DefRuleSetting\_t Struct Reference

FEC decoder default rule settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InTS\_FEC\_Dec\_DefRuleSetting\_t:



### Public Attributes

- [eFECDecMode Mode](#)
- [eFECIncrScheme IncrScheme](#)
- unsigned short [ColFEC\\_Offset](#)
- unsigned short [RowFEC\\_Offset](#)

### 10.168.1 Detailed Description

FEC decoder default rule settings.

Definition at line 19145 of file DCM.idl.

The documentation for this struct was generated from the following file:

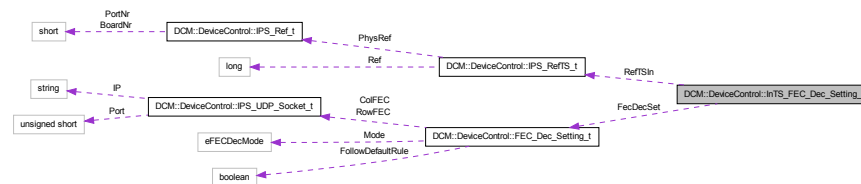
- [DCM.idl](#)

## 10.169 DCM::DeviceControl::InTS\_FEC\_Dec\_Setting\_t Struct Reference

FEC encoder settings for specific TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InTS\_FEC\_Dec\_Setting\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTSIn](#)
- [FEC\\_Dec\\_Setting\\_t FecDecSet](#)

#### 10.169.1 Detailed Description

FEC encoder settings for specific TS.

Definition at line 19128 of file DCM.idl.

The documentation for this struct was generated from the following file:

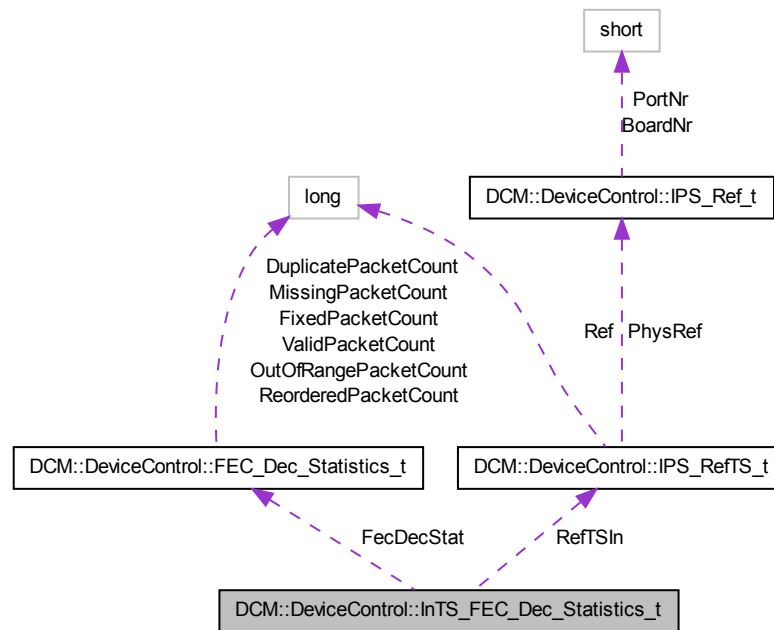
- [DCM.idl](#)

## 10.170 DCM::DeviceControl::InTS\_FEC\_Dec\_Statistics\_t Struct Reference

FEC decoder statistics for specific TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InTS\_FEC\_Dec\_Statistics\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTSIn](#)
- [FEC\\_Dec\\_Statistics\\_t FecDecStat](#)

### 10.170.1 Detailed Description

FEC decoder statistics for specific TS.

Definition at line 19165 of file DCM.idl.

The documentation for this struct was generated from the following file:

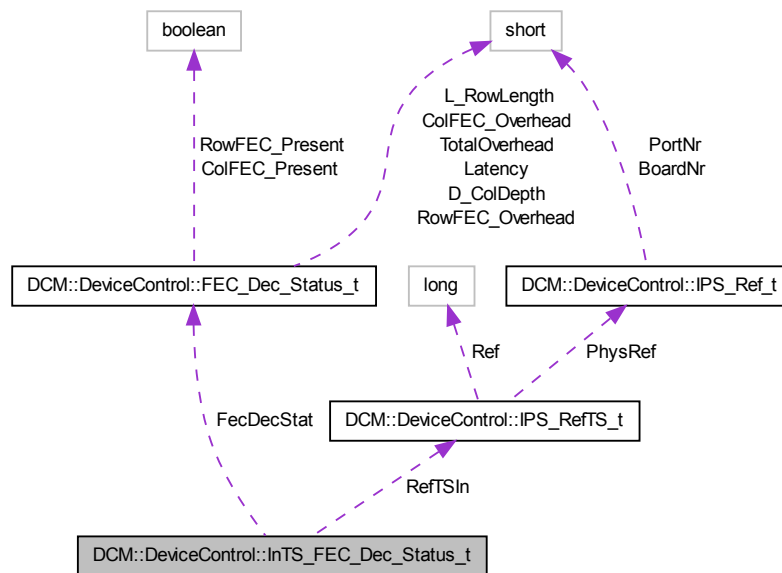
- [DCM.idl](#)

## 10.171 DCM::DeviceControl::InTS\_FEC\_Dec\_Status\_t Struct Reference

FEC decoder status for specific TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InTS\_FEC\_Dec\_Status\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTSIn](#)
- [FEC\\_Dec\\_Status\\_t FecDecStat](#)

#### 10.171.1 Detailed Description

FEC decoder status for specific TS.

Definition at line 19188 of file DCM.idl.

The documentation for this struct was generated from the following file:

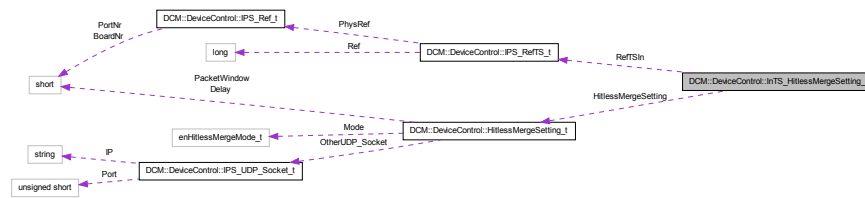
- [DCM.idl](#)

## 10.172 DCM::DeviceControl::InTS\_HitlessMergeSetting\_t Struct Reference

Hitless merge settings for specific TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InTS\_HitlessMergeSetting\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefTSIn](#)
- [HitlessMergeSetting\\_t HitlessMergeSetting](#)

### 10.172.1 Detailed Description

Hitless merge settings for specific TS.

Definition at line 19681 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

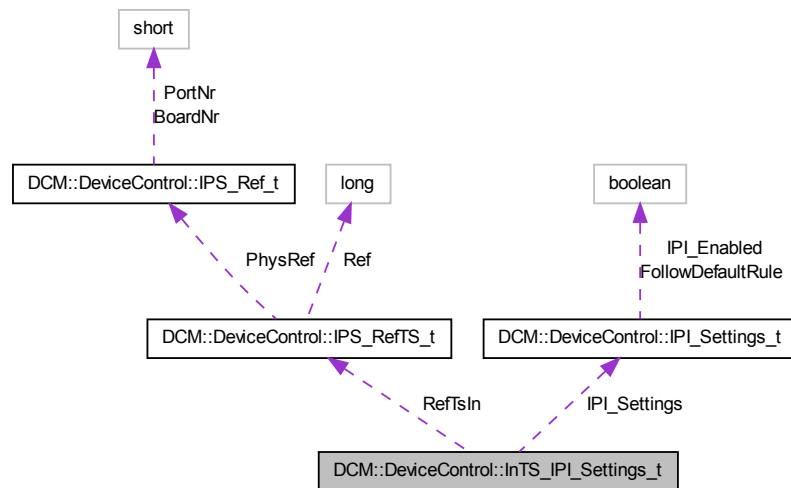
## 10.173 DCM::DeviceControl::InTS\_IPI\_Settings\_t Struct Reference

Information to change the IndexPacketInterpreter settings of an incoming TS.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::InTS\_IPI\_Settings\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTsIn](#)
- [IPI\\_Settings\\_t IPI\\_Settings](#)

#### 10.173.1 Detailed Description

Information to change the IndexPacketInterpreter settings of an incoming TS.

Definition at line 29382 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

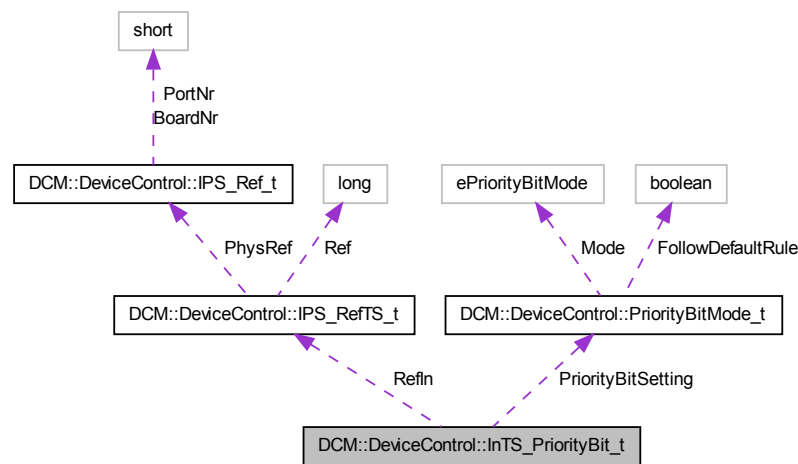
- [DCM.idl](#)

## 10.174 DCM::DeviceControl::InTS\_PriorityBit\_t Struct Reference

Information to change the priority bit of the MPEG packets of an incoming TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InTS\_PriorityBit\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)  
*The location of the input TS (Board, Port and Ref).*
- [PriorityBitMode\\_t PriorityBitSetting](#)  
*Indicates how the priority bit should be handled.*

#### 10.174.1 Detailed Description

Information to change the priority bit of the MPEG packets of an incoming TS.

Definition at line 4349 of file DCM.idl.

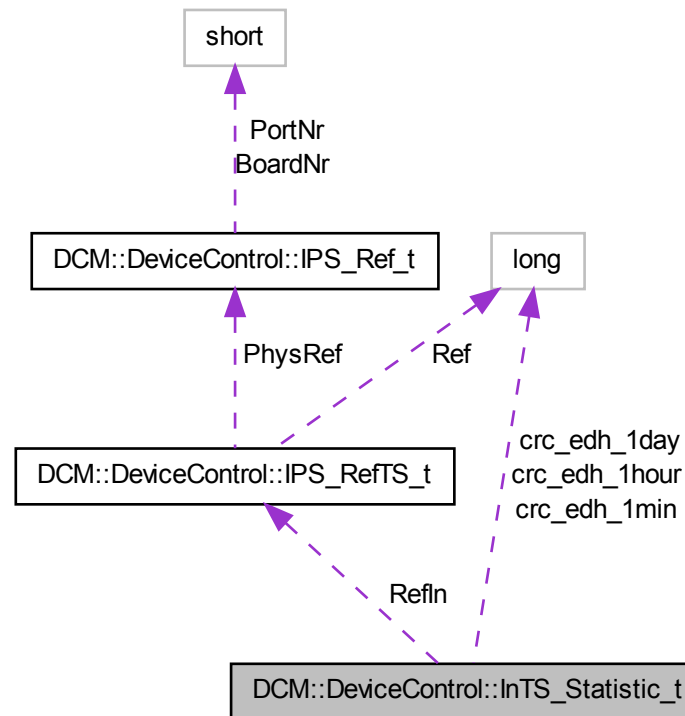
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.175 DCM::DeviceControl::InTS\_Statistic\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InTS\_Statistic\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)
- unsigned long [crc\\_edh\\_1min](#)
- unsigned long [crc\\_edh\\_1hour](#)
- unsigned long [crc\\_edh\\_1day](#)

### 10.175.1 Detailed Description

Definition at line 30891 of file DCM.idl.

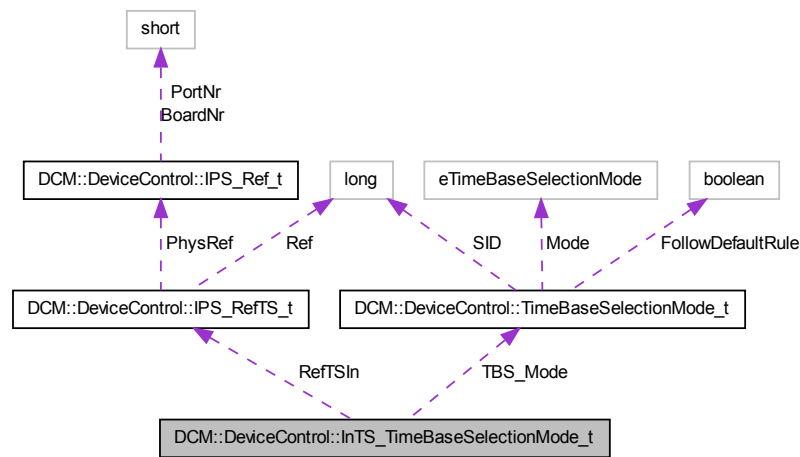
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.176 DCM::DeviceControl::InTS\_TimeBaseSelectionMode\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InTS\_TimeBaseSelectionMode\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTSIn](#)
- [TimeBaseSelectionMode\\_t TBS\\_Mode](#)

#### 10.176.1 Detailed Description

**Deprecated** Use V2 structure instead

Definition at line 2953 of file DCM.idl.

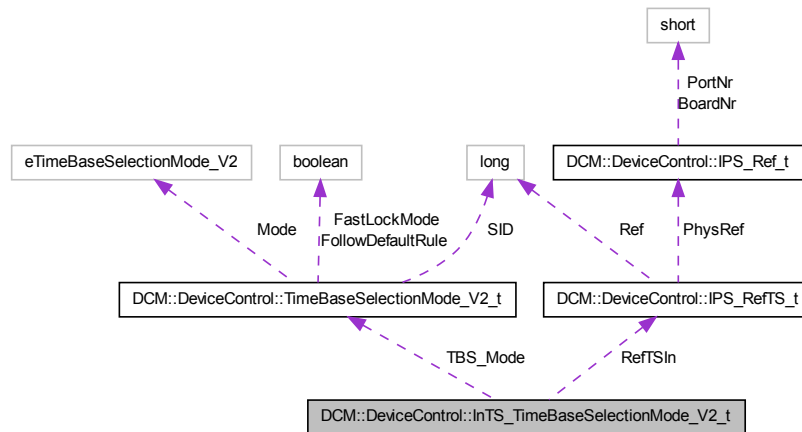
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.177 DCM::DeviceControl::InTS\_TimeBaseSelectionMode\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InTS\_TimeBaseSelectionMode\_V2\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTSIn](#)
- [TimeBaseSelectionMode\\_V2\\_t TBS\\_Mode](#)

#### 10.177.1 Detailed Description

Definition at line 2993 of file DCM.idl.

The documentation for this struct was generated from the following file:

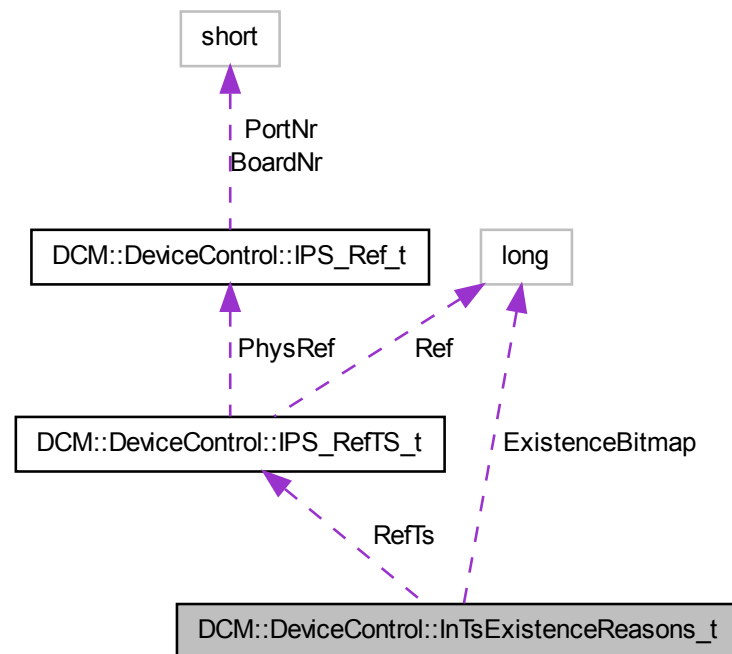
- [DCM.idl](#)

### 10.178 DCM::DeviceControl::InTsExistenceReasons\_t Struct Reference

Input Transport stream reason for existence bitmap.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::InTsExistenceReasons\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- unsigned long [ExistenceBitmap](#)

### 10.178.1 Detailed Description

Input Transport stream reason for existence bitmap.

The bits in the bitmap indicate the specific reasons :

- bit 0: IsPassedToOutput
- bit 1: IsBackupSource
- bit 2: TwoMinuteTimerRunning
- bit 3: HasSpecificServiceLossSettings
- bit 4: HasSpecificTsLossSettings
- bit 5: HasSpecificFEC\_Settings
- bit 6: HasCompactCA\_Settings

- bit 7: HasTsBackupSettings
- bit 8: HasSpecificStandardSetting
- bit 9: HasSpecificTimeBaseSelection
- bit 10: SignalPresent
- bit 11: HasPriorityBitSettings
- bit 12: HasInterpreterSettings
- bit 13: HasThresholdMonSettings
- bit 14: HasHitlessMergeSettings

Definition at line 3134 of file DCM.idl.

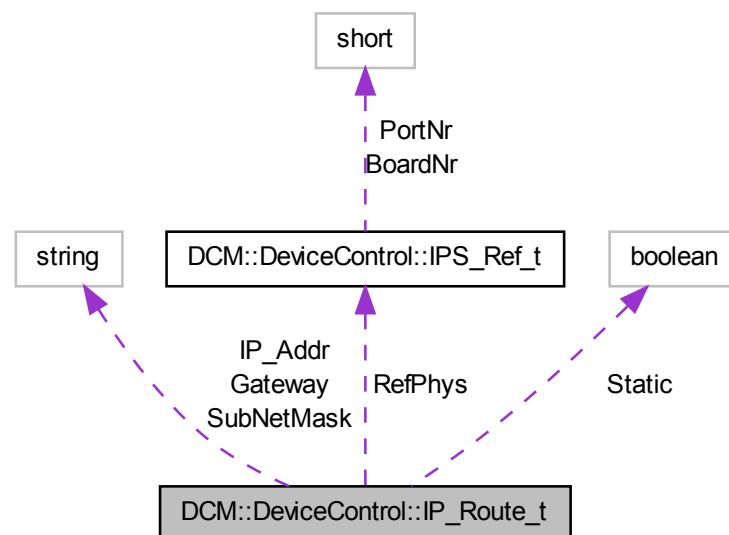
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.179 DCM::DeviceControl::IP\_Route\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IP\_Route\_t:



## Public Attributes

- boolean [Static](#)  
*Static route or not.*
- string [IP\\_Addr](#)  
*use "0.0.0.0" to create a default route*
- string [SubNetMask](#)  
*use "0.0.0.0" to create a default route*
- string [Gateway](#)
- [IPS\\_Ref\\_t](#) [RefPhys](#)

## 10.179.1 Detailed Description

Definition at line 18700 of file DCM.idl.

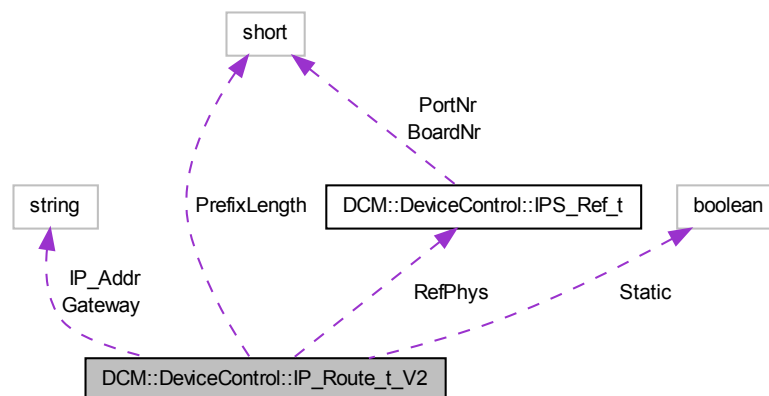
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.180 DCM::DeviceControl::IP\_Route\_t\_V2 Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IP\_Route\_t\_V2:



## Public Attributes

- boolean [Static](#)  
*Static route or not.*
- string [IP\\_Addr](#)
- unsigned short [PrefixLength](#)
- string [Gateway](#)
- [IPS\\_Ref\\_t](#) [RefPhys](#)



## 10.180.1 Detailed Description

Definition at line 18712 of file DCM.idl.

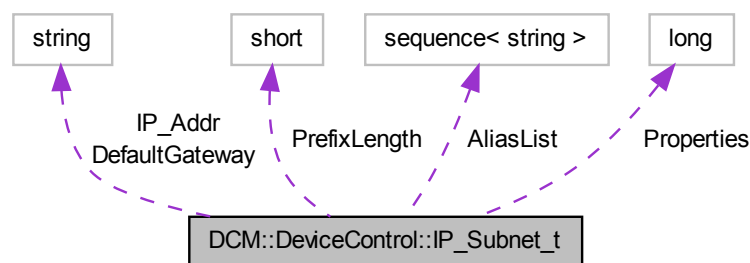
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.181 DCM::DeviceControl::IP\_Subnet\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IP\_Subnet\_t:



## Public Attributes

- unsigned long [Properties](#)  
*Read only bitmap containing properties for this Subnet Bit 0: Read only This subnet is automatically configured and cannot be changed Bit 1: Main - This subnet is the main subnet.*
- string [IP\\_Addr](#)
- unsigned short [PrefixLength](#)
- string [DefaultGateway](#)
- [IP\\_List\\_t](#) [AliasList](#)

## 10.181.1 Detailed Description

Definition at line 2056 of file DCM.idl.

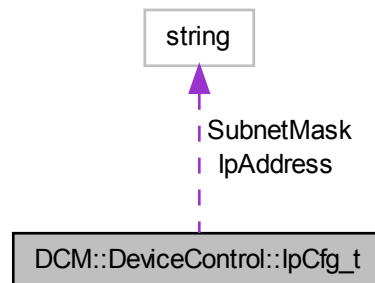
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.182 DCM::DeviceControl::IpCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IpCfg\_t:



#### Public Attributes

- string [IpAddress](#)
- string [SubnetMask](#)

#### 10.182.1 Detailed Description

Definition at line 6666 of file `DCM.idl`.

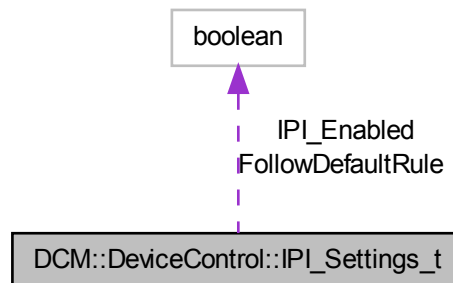
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.183 DCM::DeviceControl::IPI\_Settings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPI\_Settings\_t:



#### Public Attributes

- boolean [IPI\\_Enabled](#)
- boolean [FollowDefaultRule](#)

*readonly flag indicating if default priority bit settings are used*

#### 10.183.1 Detailed Description

Definition at line 29374 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

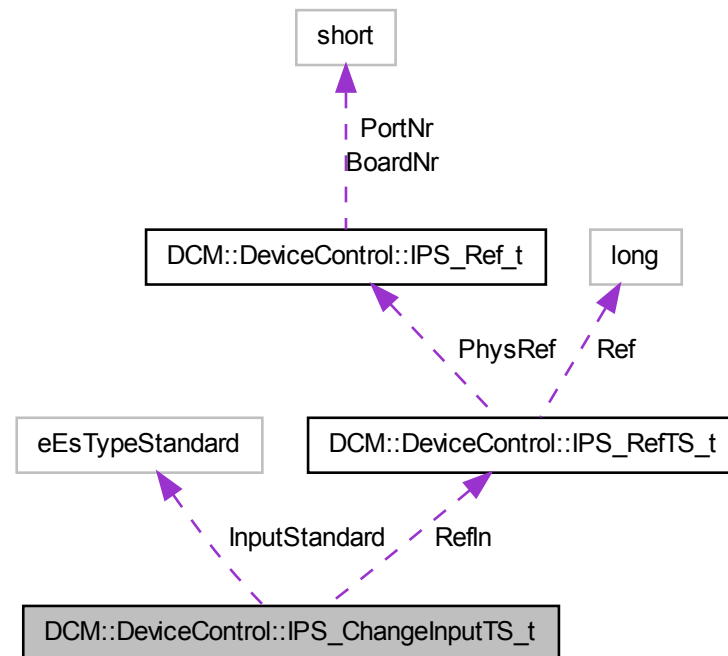
- [DCM.idl](#)

### 10.184 DCM::DeviceControl::IPS\_ChangeInputTS\_t Struct Reference

Information to change an incoming TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_ChangeInputTS\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)  
*The location of the TS (Board, Port and Ref).*
- [eEsTypeStandard InputStandard](#)  
*Indicates how different PID (ES) types must be interpreted.*

#### 10.184.1 Detailed Description

Information to change an incoming TS.

Definition at line 2395 of file DCM.idl.

The documentation for this struct was generated from the following file:

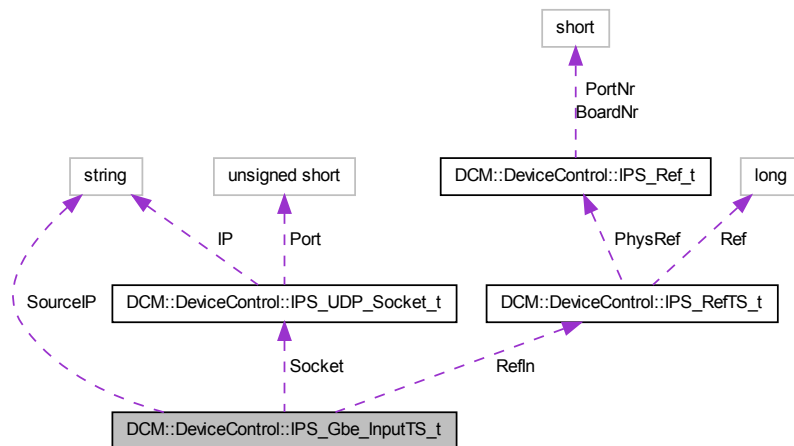
- [DCM.idl](#)

#### 10.185 DCM::DeviceControl::IPS\_Gbe\_InputTS\_t Struct Reference

Gbe information of an incoming TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_Gbe\_InputTS\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)  
*The location of the TS (Board, Port and Ref).*
- [IPS\\_UDP\\_Socket\\_t Socket](#)  
*Unique IP-Address and UDP port combination.*
- string [SourceIP](#)  
*The source IP-Address of the incoming TS.*

### 10.185.1 Detailed Description

Gbe information of an incoming TS.

Definition at line 2376 of file DCM.idl.

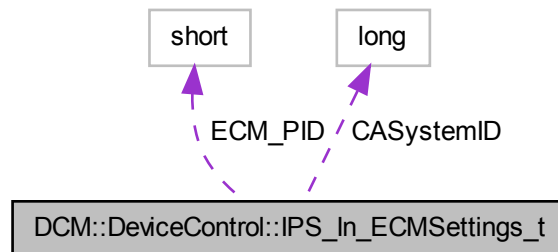
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.186 DCM::DeviceControl::IPS\_In\_ECMSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_In\_ECMSettings\_t:



#### Public Attributes

- long [CASystemID](#)  
*To which CA system does the ECM belong.*
- unsigned short [ECM\\_PID](#)  
*Setting of an individual ECM PID.*

#### 10.186.1 Detailed Description

Definition at line 5984 of file `DCM.idl`.

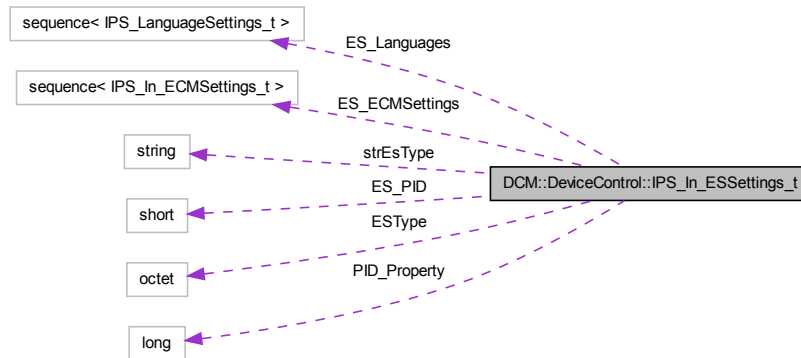
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.187 DCM::DeviceControl::IPS\_In\_ESSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_In\_ESSettings\_t:



### Public Attributes

- unsigned short [ES\\_PID](#)
- octet [ESType](#)  
*Dvb stream type.*
- string [strEsType](#)  
*Interpretation of EsType in regard to m\_EsTypeStandard of the input TS. Read only.*
- [IPS\\_In\\_ECMSettingsTree\\_t](#) [ES\\_ECMSettings](#)  
*Settings for each ES ECM PID.*
- [LanguageList\\_t](#) [ES\\_Languages](#)  
*Language descriptors: will be zero in first version.*
- unsigned long [PID\\_Property](#)  
*Read only Bitmap used by GUI to display specific icons < Bit 0: PID present in input TS or not < TRUE means present < FALSE: PID not present < Remark: present or not present is based on SI < Bit 4: PID scrambled at input <.*

#### 10.187.1 Detailed Description

Definition at line 5993 of file DCM.idl.

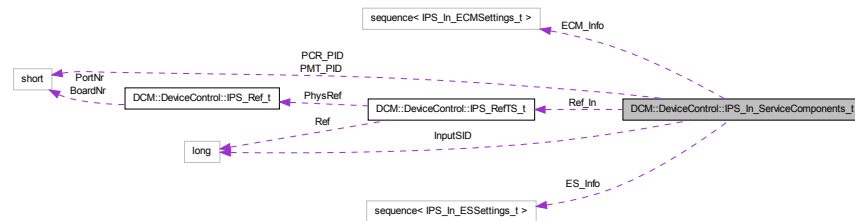
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.188 DCM::DeviceControl::IPS\_In\_ServiceComponents\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_In\_ServiceComponents\_t:



## Public Attributes

- [IPS\\_RefTS\\_t Ref\\_In](#)
- unsigned long [InputSID](#)
- unsigned short [PMT\\_PID](#)
- unsigned short [PCR\\_PID](#)
- [IPS\\_In\\_ECMSettingsTree\\_t ECM\\_Info](#)
- [IPS\\_In\\_ESSettingsTree\\_t ES\\_Info](#)

*Contains a list of ECM\_Info.*

### 10.188.1 Detailed Description

Definition at line 6012 of file DCM.idl.

The documentation for this struct was generated from the following file:

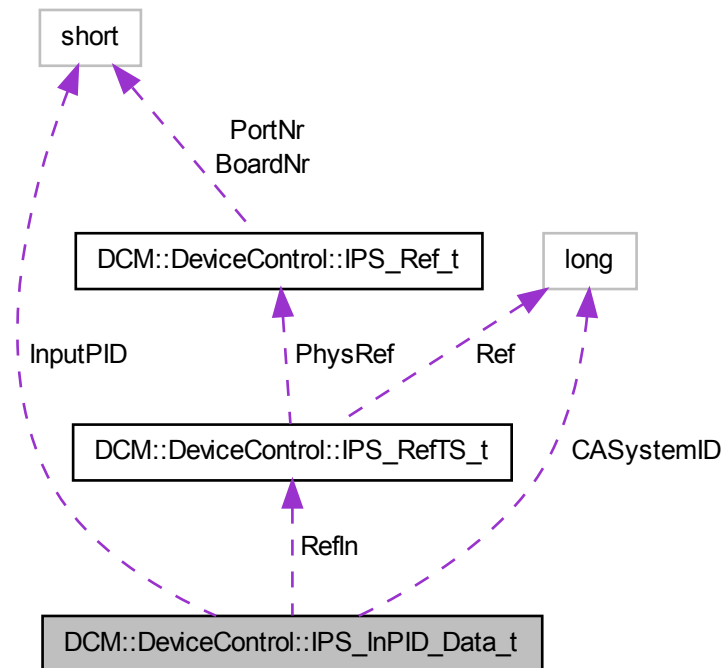
- [DCM.idl](#)

## 10.189 DCM::DeviceControl::IPS\_InPID\_Data\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::IPS\_InPID\_Data\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)
- unsigned short [InputPID](#)
- long [CASystemID](#)

*Only for EMMs: to which CA system does the EMM belong.*

#### 10.189.1 Detailed Description

Definition at line 2602 of file DCM.idl.

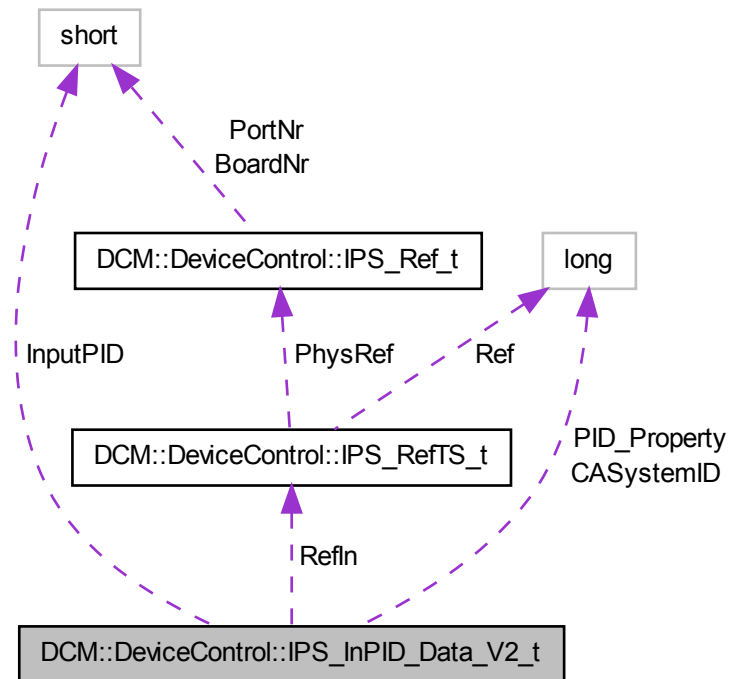
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.190 DCM::DeviceControl::IPS\_InPID\_Data\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_InPID\_Data\_V2\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)
- unsigned short [InputPID](#)
- long [CASystemID](#)  
*Only for EMMs: to which CA system does the EMM belong.*
- unsigned long [PID\\_Property](#)  
*Read-only bitmap used by GUI to display specific icons < Bit 0: input signal present (true) or not (false)*

### 10.190.1 Detailed Description

Definition at line 2611 of file DCM.idl.

The documentation for this struct was generated from the following file:

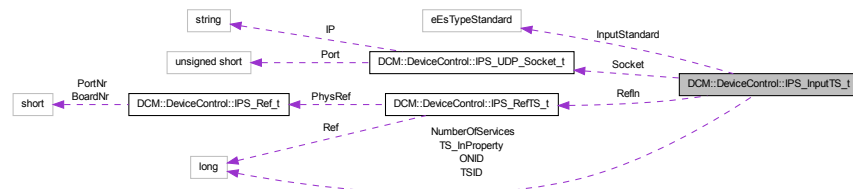
- [DCM.idl](#)

### 10.191 DCM::DeviceControl::IPS\_InputTS\_t Struct Reference

Information of an incoming TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_InputTS\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)  
*The location of the TS (Board, Port and Ref).*
- [IPS\\_UDP\\_Socket\\_t Socket](#)  
*Unique IP-Address and UDP port combination.*
- unsigned long [TSID](#)  
*TSID range: [0..65535].*
- unsigned long [ONID](#)  
*ONID range: [0..65535].*
- unsigned long [NumberOfServices](#)  
*Number of services present on this input TS.*
- unsigned long [TS\\_InProperty](#)  
*Read only Bitmap used by GUI to display specific icons (.*
- [eEsTypeStandard InputStandard](#)  
*Indicates how different PID (ES) types must be interpreted.*

### 10.191.1 Detailed Description

Information of an incoming TS.

Definition at line 2347 of file DCM.idl.

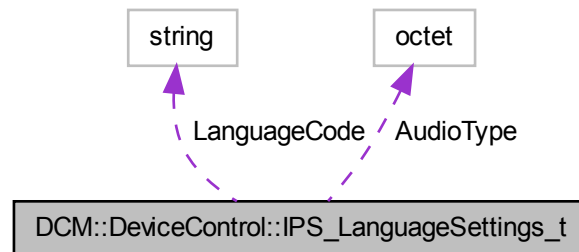
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.192 DCM::DeviceControl::IPS\_LanguageSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_LanguageSettings\_t:



#### Public Attributes

- string [LanguageCode](#)  
*ISO\_639\_language\_code.*
- octet [AudioType](#)

#### 10.192.1 Detailed Description

Definition at line 5874 of file DCM.idl.

The documentation for this struct was generated from the following file:

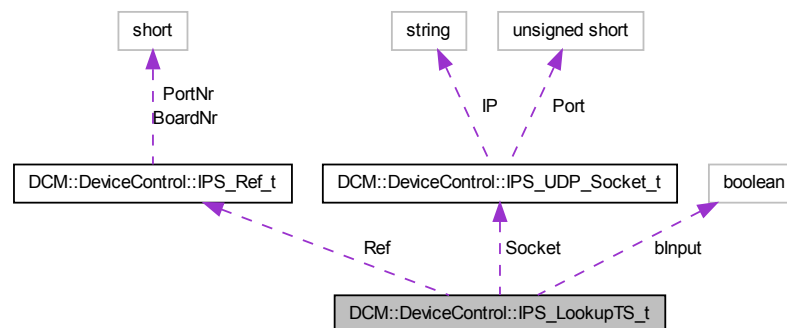
- [DCM.idl](#)

### 10.193 DCM::DeviceControl::IPS\_LookupTS\_t Struct Reference

Structure to find a specific TS by IP-address and UDP port.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_LookupTS\_t:



### Public Attributes

- boolean **bInput**  
*Indicates if it is an input or output TS.*
- **IPS\_Ref\_t Ref**  
*The location to search (Board, Port). Board number is ignored.*
- **IPS\_UDP\_Socket\_t Socket**  
*Will be ignored on ASI board.*

#### 10.193.1 Detailed Description

Structure to find a specific TS by IP-address and UDP port.

Definition at line 2532 of file DCM.idl.

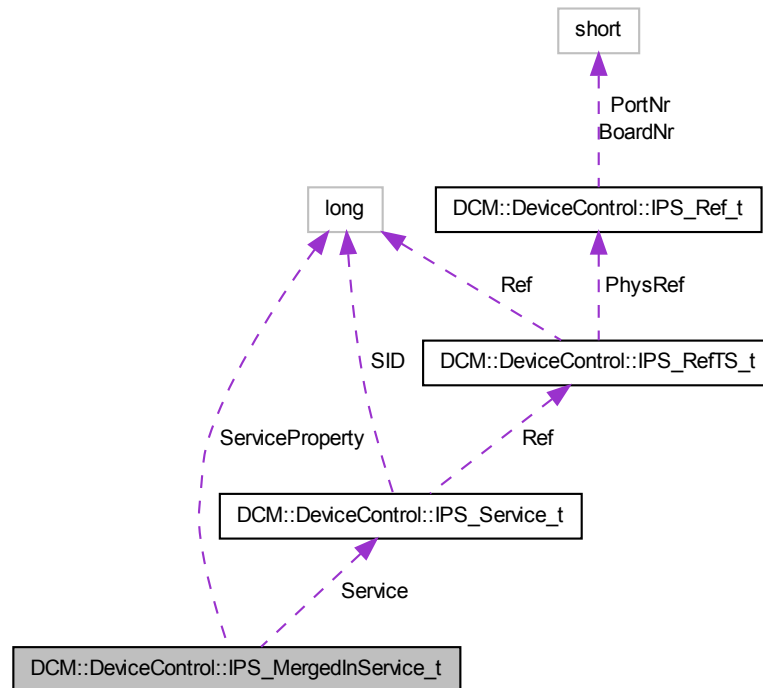
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.194 DCM::DeviceControl::IPS\_MergedInService\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_MergedInService\_t:



### Public Attributes

- [IPS\\_Service\\_t Service](#)
- unsigned long [ServiceProperty](#)

#### 10.194.1 Detailed Description

Definition at line 5214 of file DCM.idl.

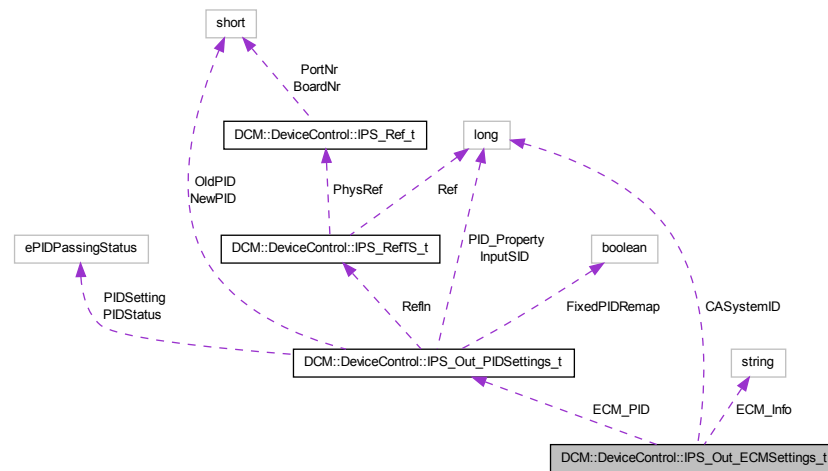
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.195 DCM::DeviceControl::IPS\_Out\_ECMSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_Out\_ECMSettings\_t:



## Public Attributes

- long [CASystemID](#)  
*To which CA system does the ECM belong.*
- string [ECM\\_Info](#)  
*Additional info for ECM (AC, ...)*
- [IPS\\_Out\\_PIDSettings\\_t](#) [ECM\\_PID](#)  
*Setting of an individual ECM PID.*

### 10.195.1 Detailed Description

Definition at line 5910 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.196 DCM::DeviceControl::IPS\_Out\_ESSettings\_t Struct Reference

```
import "DCM.idl";
```





- [octet SrcES\\_Type](#)  
*dvb streamtype of the source of the output TS.*
- [string strSrcES\\_Type](#)  
*Interpretation of Es\_Type in regard to m\_EsTypeStandard of the source of the output TS. Read only.*
- [octet OutES\\_Type](#)  
*dvb streamtype of the output TS.*
- [string strOutES\\_Type](#)  
*Interpretation of Es\_Type in regard to m\_EsTypeStandard of the output TS. Read only.*
- [IPS\\_Out\\_ECMSettingsTree\\_t ES\\_ECMSettings](#)  
*Settings for each ES ECM PID.*
- [LanguageList\\_t ES\\_Languages](#)

### 10.197.1 Detailed Description

Definition at line 5946 of file DCM.idl.

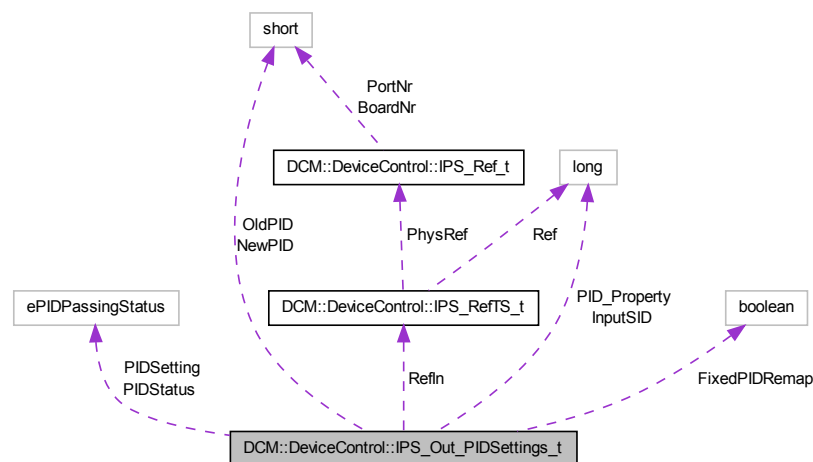
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.198 DCM::DeviceControl::IPS\_Out\_PIDSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_Out\_PIDSettings\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)  
*The location (slot, port) and stream.*

- unsigned long [InputSID](#)  
*Input Service ID. (Not used : always 0 now)*
- unsigned short [OldPID](#)  
*Value of the PID at the input TS.*
- unsigned short [NewPID](#)  
*New output PID value: 0xFFFF means unassigned.*
- boolean [FixedPIDRemap](#)  
*If Output PID is fixed, this variable is true.*
- [ePIDPassingStatus](#) [PIDStatus](#)  
*Measurement, can be different from setting.*
- [ePIDPassingStatus](#) [PIDSetting](#)  
*Set by user, can only be ePID\_StatusBlockedByUser or ePID\_StatusPassed.*
- unsigned long [PID\\_Property](#)  
*Read only Bitmap used by GUI to display specific icons < Bit 0: PID present in input TS or not < TRUE means present < FALSE: PID not present < Remark: present or not present is based on SI < Bit 1: Service scrambled by DCM < TRUE means scrambled by DCM < FALSE means not scrambled by DCM < Bit 2: PID descrambled by DCM (TRUE = descrambled) < Bit 3: PID is not correctly descrambled (when descrambled by DCM) < TRUE means that not descrambled alarm is active < Bit 4: PID is scrambled at input < TRUE means scrambled at input.*

### 10.198.1 Detailed Description

Definition at line 5883 of file DCM.idl.

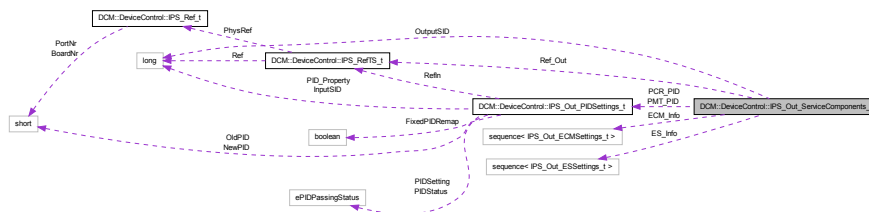
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.199 DCM::DeviceControl::IPS\_Out\_ServiceComponents\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_Out\_ServiceComponents\_t:



### Public Attributes

- [IPS\\_RefTS\\_t](#) [Ref\\_Out](#)
- unsigned long [OutputSID](#)
- [IPS\\_Out\\_PIDSettings\\_t](#) [PMT\\_PID](#)
- [IPS\\_Out\\_PIDSettings\\_t](#) [PCR\\_PID](#)

- IPS\_Out\_ECMSettingsTree\_t ECM\_Info
- IPS\_Out\_ESSettingsTree\_t ES\_Info

*Contains a list of ECM\_Info.*

### 10.199.1 Detailed Description

Definition at line 5932 of file DCM.idl.

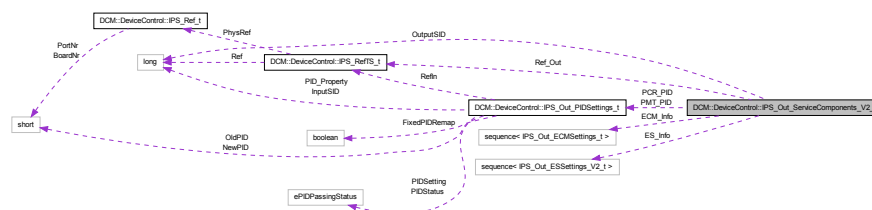
The documentation for this struct was generated from the following file:

- DCM.idl

## 10.200 DCM::DeviceControl::IPS\_Out\_ServiceComponents\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_Out\_ServiceComponents\_V2.t:



## Public Attributes

- IPS\_RefTS\_t Ref\_Out
- unsigned long OutputSID
- IPS\_Out\_PIDSettings\_t PMT\_PID
- IPS\_Out\_PIDSettings\_t PCR\_PID
- IPS\_Out\_ECMSettingsTree\_t ECM\_Info
- IPS\_Out\_ESSettingsTree\_V2\_t ES\_Info

*Contains a list of ECM\_Info.*

### 10.200.1 Detailed Description

Definition at line 5961 of file DCM.idl.

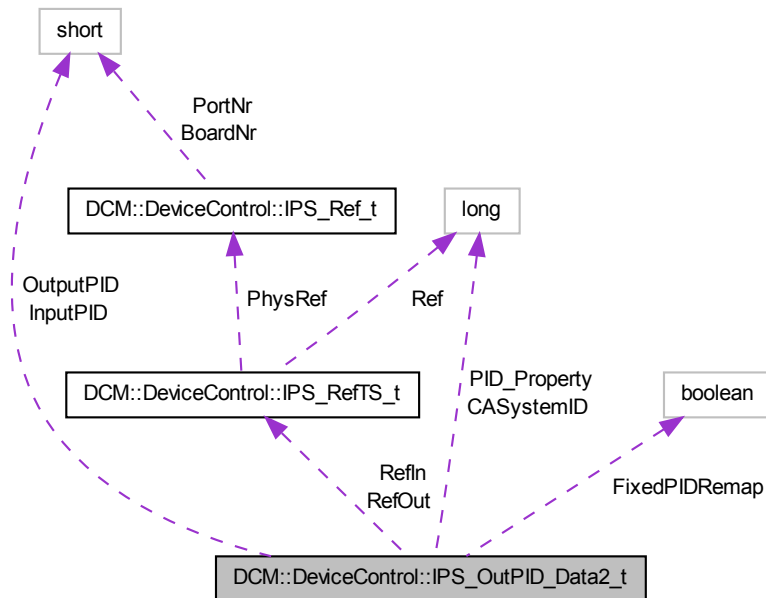
The documentation for this struct was generated from the following file:

- DCM.idl

## 10.201 DCM::DeviceControl::IPS\_OutPID\_Data2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_OutPID\_Data2\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefOut](#)
- [IPS\\_RefTS\\_t RefIn](#)
- unsigned short [InputPID](#)
- unsigned short [OutputPID](#)
- boolean [FixedPIDRemap](#)

*If Output PID is fixed, this variable is true.*

- unsigned long [PID\\_Property](#)

*Read only Bitmap used by GUI to display specific icons < Bit 0: PID present in input TS or not < TRUE means present < FALSE: PID not present < Remark: present or not present is based on SI < For unreferenced pids based upon presence of input pid < Bit 1: ignore bit (used as scrambling bit in valid component/service) < Bit 4: input pid scrambled < TRUE means scrambled.*

- long [CASystemID](#)

*Only for EMMs: to which CA system does the EMM belong.*

### 10.201.1 Detailed Description

Definition at line 2577 of file DCM.idl.

The documentation for this struct was generated from the following file:

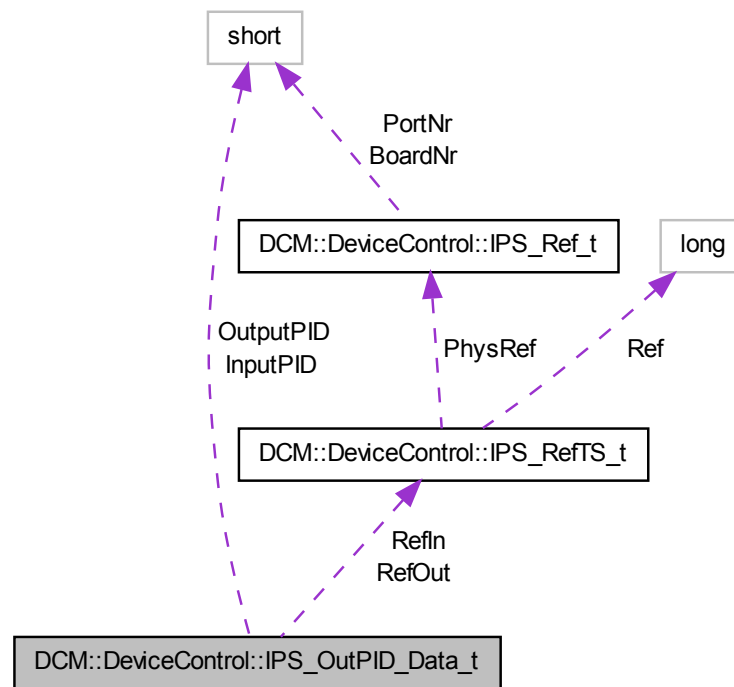
- [DCM.idl](#)

## 10.202 DCM::DeviceControl::IPS\_OutPID\_Data\_t Struct Reference

Used for PID passing by [IPS\\_OutPID\\_AddL\(\)](#), [IPS\\_OutPID\\_GetL\(\)](#) and [IPS\\_OutPID\\_DeleteL\(\)](#)

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_OutPID\_Data\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefOut](#)
- [IPS\\_RefTS\\_t RefIn](#)
- unsigned short [InputPID](#)
- unsigned short [OutputPID](#)

### 10.202.1 Detailed Description

Used for PID passing by [IPS\\_OutPID\\_AddL\(\)](#), [IPS\\_OutPID\\_GetL\(\)](#) and [IPS\\_OutPID\\_DeleteL\(\)](#)

Definition at line 2556 of file DCM.idl.

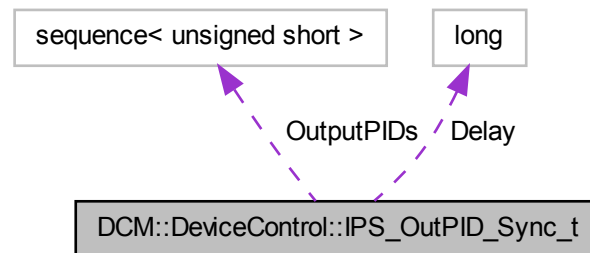
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.203 DCM::DeviceControl::IPS\_OutPID\_Sync\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_OutPID\_Sync\_t:



### Public Attributes

- [PID\\_List\\_t OutputPIDs](#)  
*The pids to be synchronized.*
- unsigned long [Delay](#)  
*The time (in ms) the PIDs should be delayed.*

### 10.203.1 Detailed Description

Definition at line 16676 of file `DCM.idl`.

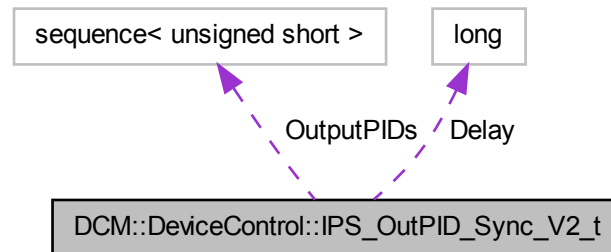
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.204 DCM::DeviceControl::IPS\_OutPID\_Sync\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_OutPID\_Sync\_V2\_t:



#### Public Attributes

- [PID\\_List\\_t](#) [OutputPIDs](#)  
The pids to be synchronized.
- long [Delay](#)  
The time (in ms) the PIDs should be delayed.

#### 10.204.1 Detailed Description

Definition at line 16692 of file DCM.idl.

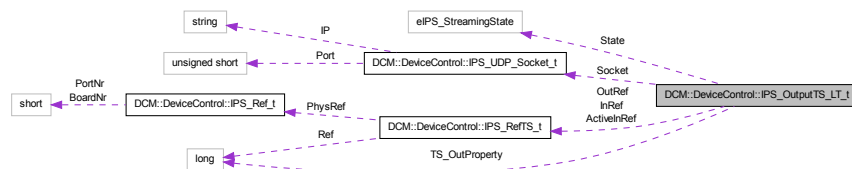
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.205 DCM::DeviceControl::IPS\_OutputTS\_LT\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_OutputTS\_LT\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t](#) [OutRef](#)

- The location of the OutputTS (Board, Port and Ref).*

    - [IPS\\_RefTS\\_t InRef](#)

*The location of the InputTS (Board, Port and Ref).*
  - [IPS\\_RefTS\\_t ActiveInRef](#)

*The location of the ActiveInputTS (Board, Port and Ref).*
  - [IPS\\_UDP\\_Socket\\_t Socket](#)

*Unique IP-Address and UDP port combination.*
- [eIPS\\_StreamingState State](#)
  - unsigned long [TS\\_OutProperty](#)
- Read only Bitmap used by GUI to display specific icons. < Bit 3: TRUE if RTP is streamed < Bit 4: TRUE if VLAN is enabled < Bit 9: TRUE if FEC column stream is enabled < Bit 10: TRUE if FEC row stream is enabled.*

### 10.205.1 Detailed Description

Definition at line 4456 of file DCM.idl.

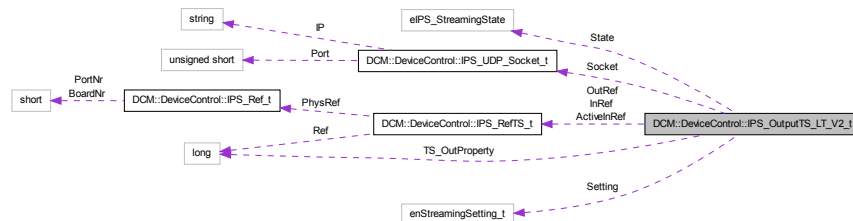
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.206 DCM::DeviceControl::IPS\_OutputTS\_LT\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_OutputTS\_LT\_V2\_t:



### Public Attributes

- [IPS\\_RefTS\\_t OutRef](#)

*The location of the OutputTS (Board, Port and Ref).*
- [IPS\\_RefTS\\_t InRef](#)

*The location of the InputTS (Board, Port and Ref).*
- [IPS\\_RefTS\\_t ActiveInRef](#)

*The location of the ActiveInputTS (Board, Port and Ref).*
- [IPS\\_UDP\\_Socket\\_t Socket](#)

*Unique IP-Address and UDP port combination.*
- [enStreamingSetting\\_t Setting](#)





## 10.207.1 Detailed Description

Definition at line 2457 of file DCM.idl.

The documentation for this struct was generated from the following file:

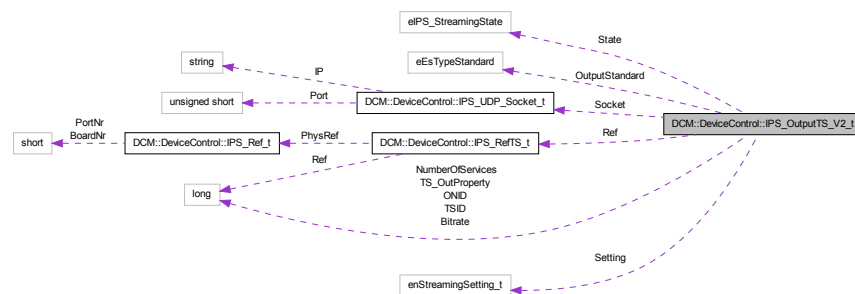
- [DCM.idl](#)

## 10.208 DCM::DeviceControl::IPS\_OutputTS\_V2\_t Struct Reference

Information-Settings of an outgoing TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_OutputTS\_V2\_t:



## Public Attributes

- [IPS\\_RefTS\\_t Ref](#)  
*The location of the TS (Board, Port and Ref).*
- [IPS\\_UDP\\_Socket\\_t Socket](#)  
*Unique IPv4-Address and UDP port combination.*
- unsigned long [Bitrate](#)  
*Bitrate of the outgoing TS (in bps).*
- [enStreamingSetting\\_t Setting](#)  
*Streaming setting of the outgoing TS.*
- [eIPS\\_StreamingState State](#)
- unsigned long [TSID](#)  
*Read only state.*
- unsigned long [ONID](#)  
*ONID range: 0..65535.*
- unsigned long [NumberOfServices](#)  
*Number of services present on this output TS.*
- unsigned long [TS\\_OutProperty](#)  
*Read only Bitmap used by GUI to display specific icons (.).*
- [eEsTypeStandard OutputStandard](#)  
*Indicates how different PID (ES) types must be interpreted.*

## 10.208.1 Detailed Description

Information-Settings of an outgoing TS.

Definition at line 2492 of file DCM.idl.

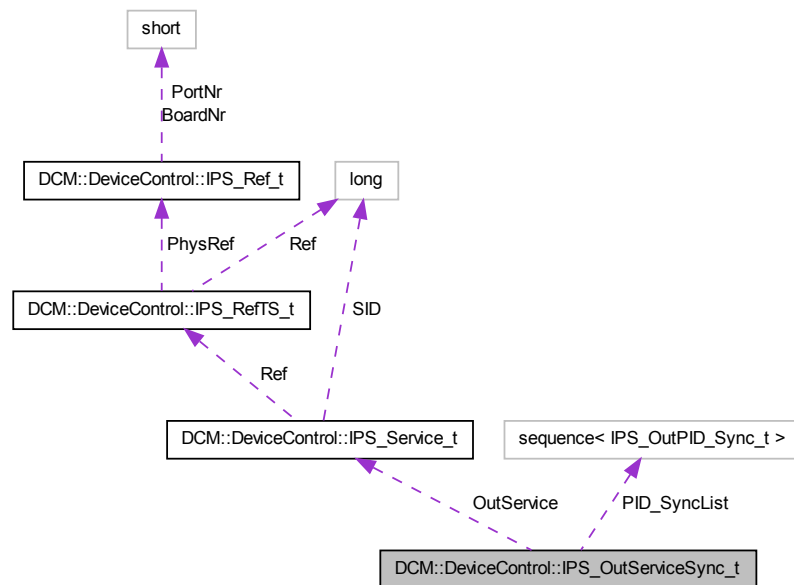
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.209 DCM::DeviceControl::IPS\_OutServiceSync\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_OutServiceSync\_t:



## Public Attributes

- [IPS\\_Service\\_t OutService](#)
- [IPS\\_OutPID\\_SyncList\\_t PID\\_SyncList](#)

## 10.209.1 Detailed Description

Definition at line 16684 of file DCM.idl.

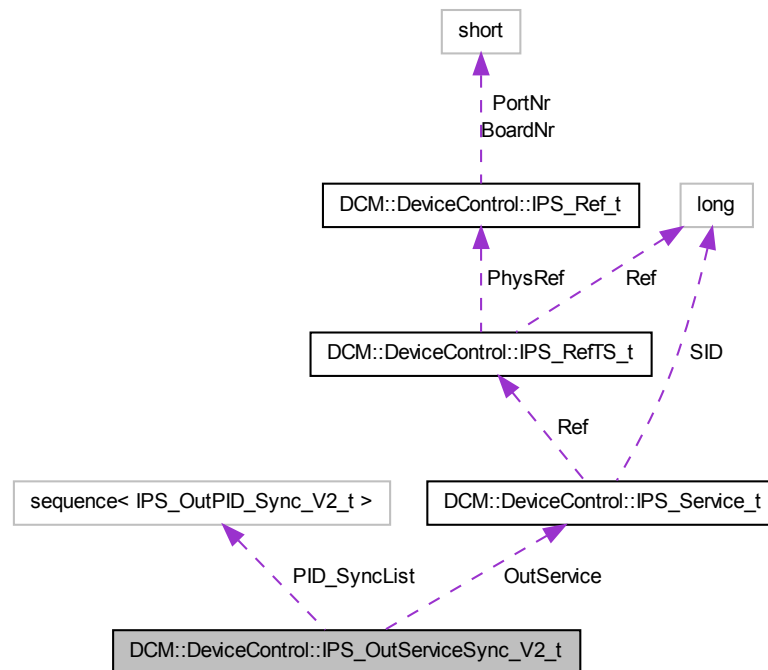
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.210 DCM::DeviceControl::IPS\_OutServiceSync\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_OutServiceSync\_V2\_t:



## Public Attributes

- [IPS\\_Service\\_t OutService](#)
- [IPS\\_OutPID\\_SyncList\\_V2\\_t PID\\_SyncList](#)

## 10.210.1 Detailed Description

Definition at line 16700 of file DCM.idl.

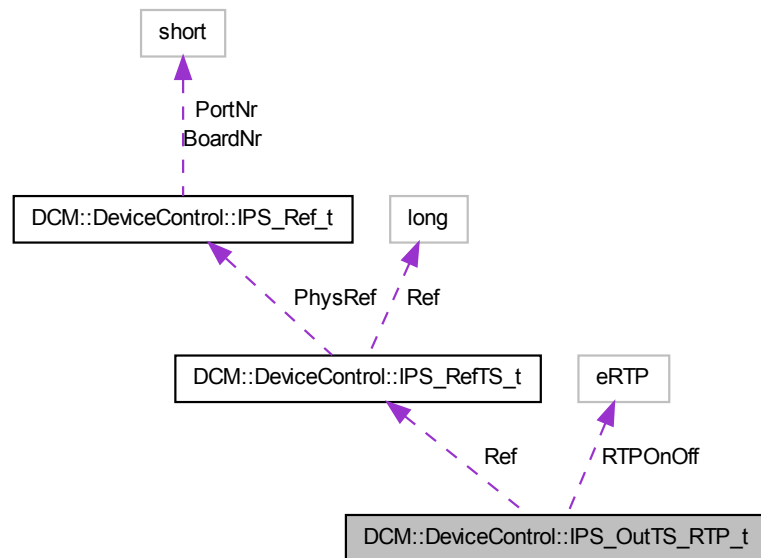
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.211 DCM::DeviceControl::IPS\_OutTS\_RTP\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_OutTS\_RTP\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t Ref](#)
- [eRTP RTPOnOff](#)

#### 10.211.1 Detailed Description

Definition at line 17913 of file DCM.idl.

The documentation for this struct was generated from the following file:

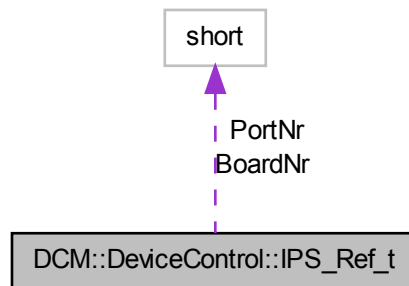
- [DCM.idl](#)

## 10.212 DCM::DeviceControl::IPS\_Ref\_t Struct Reference

General location of a physical or virtual port.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_Ref\_t:



#### Public Attributes

- unsigned short [BoardNr](#)  
*The board location the board sits in.*
- unsigned short [PortNr](#)  
*The physical port.*

#### 10.212.1 Detailed Description

General location of a physical or virtual port.

is used to identify a physical port, unless it is explicitly noted otherwise.

Definition at line 394 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

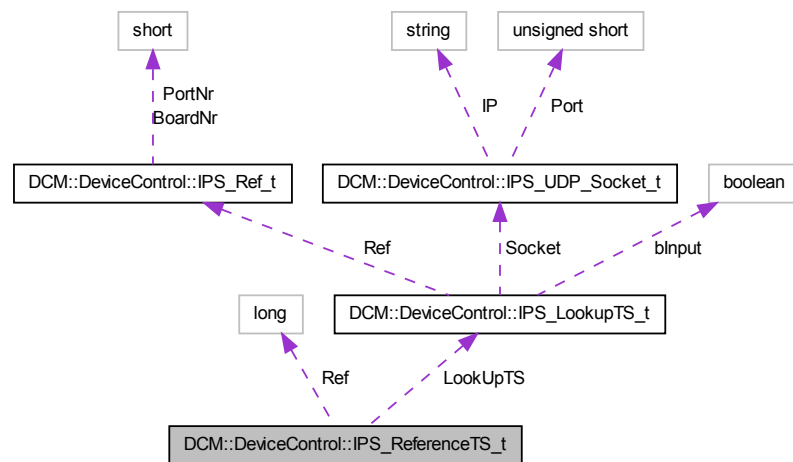
- [DCM.idl](#)

### 10.213 DCM::DeviceControl::IPS\_ReferenceTS\_t Struct Reference

Structure to find a specific TS by IP-address and UDP port.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_ReferenceTS\_t:



### Public Attributes

- [IPS\\_LookupTS\\_t](#) LookUpTS
- unsigned long Ref

#### 10.213.1 Detailed Description

Structure to find a specific TS by IP-address and UDP port.

Definition at line 2541 of file DCM.idl.

The documentation for this struct was generated from the following file:

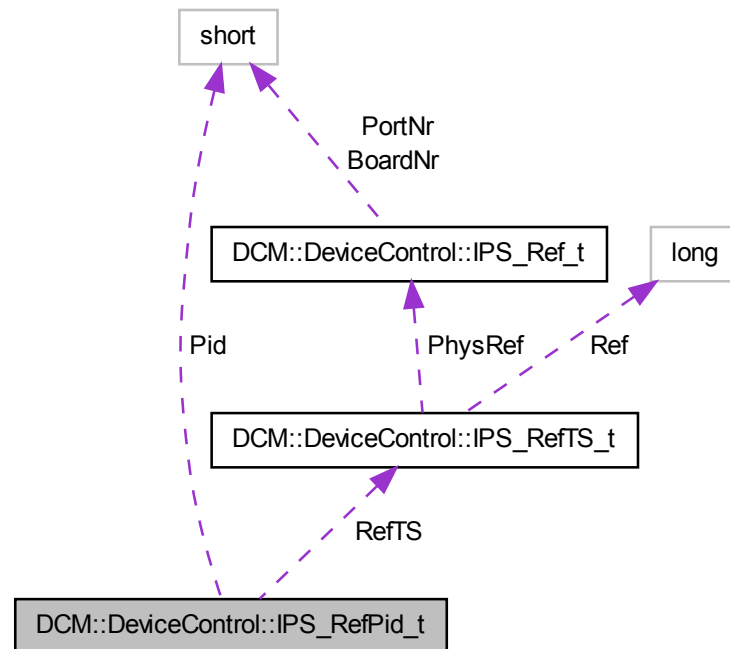
- [DCM.idl](#)

## 10.214 DCM::DeviceControl::IPS\_RefPid\_t Struct Reference

Note RefPid\_t is effectively a copy of [InEMM\\_Ref\\_t](#) but that must remain for compatability.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_RefPid\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTS](#)  
*The location (slot, port) and stream.*
- unsigned short [Pid](#)  
*Value of the PID.*

#### 10.214.1 Detailed Description

Note RefPid\_t is effectively a copy of [InEMM\\_Ref\\_t](#) but that must remain for compatability.

Definition at line 2812 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

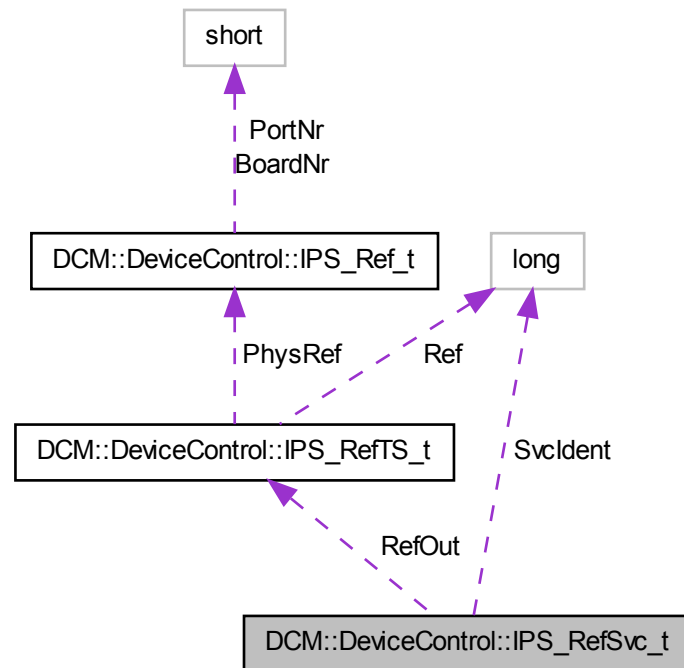
#### 10.215 DCM::DeviceControl::IPS\_RefSvc\_t Struct Reference

A reference to a service.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::IPS\_RefSvc\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefOut](#)  
*RefTS of the service TS, not necessarily an output TS as the name wrongly suggests.*
- unsigned long [SvcIdent](#)  
*For the moment this value equals the service ID.*

### 10.215.1 Detailed Description

A reference to a service.

Definition at line 4903 of file DCM.idl.

The documentation for this struct was generated from the following file:

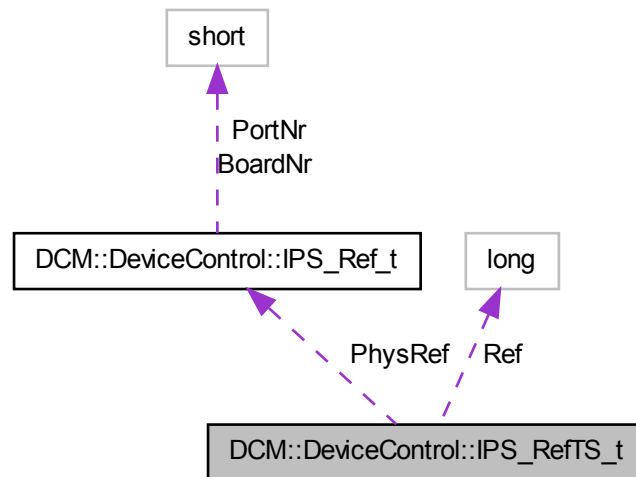
- [DCM.idl](#)

## 10.216 DCM::DeviceControl::IPS\_RefTS\_t Struct Reference

General location of a TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_RefTS\_t:



### Public Attributes

- [IPS\\_Ref\\_t PhysRef](#)  
*See [IPS\\_Ref\\_t](#).*
- unsigned long [Ref](#)  
*This is the TS index.*

#### 10.216.1 Detailed Description

General location of a TS.

Definition at line 420 of file DCM.idl.

The documentation for this struct was generated from the following file:

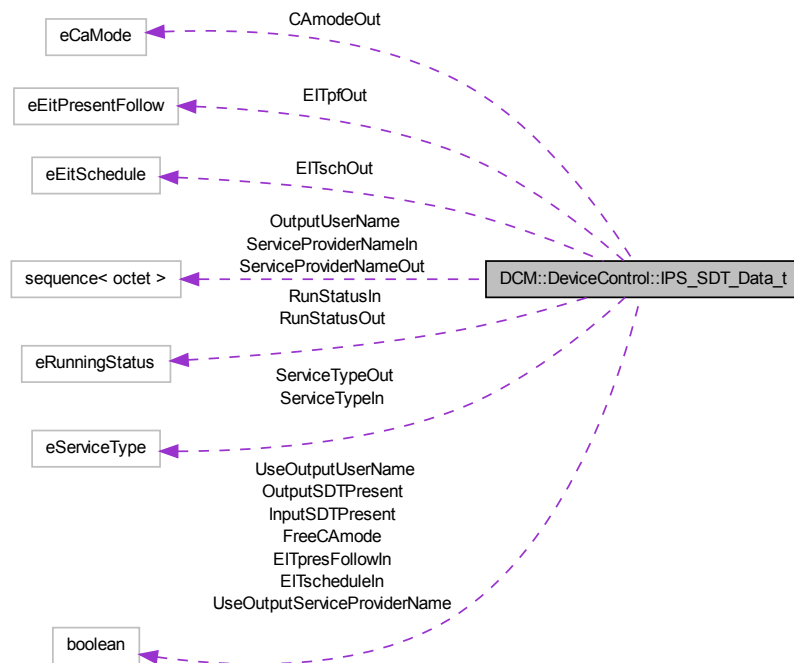
- [DCM.idl](#)

### 10.217 DCM::DeviceControl::IPS\_SDT\_Data\_t Struct Reference

Structure that contains data about the Service Description Table of a service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_SDT\_Data\_t:



## Public Attributes

- boolean [InputSDTPresent](#)  
*RO flag.*
- boolean [OutputSDTPresent](#)  
*RW flag. false = Follow Input; true = Override.*
- boolean [EITscheduleIn](#)  
*RO provides EIT\_schedule\_flag of input (Present = 1)*
- [eEitSchedule](#) [EITschOut](#)  
*RW (Transparent, Schedule Present, Schedule Not Present)*
- boolean [EITpresFollowIn](#)  
*RO provides EIT\_present\_following flag of input (Present = 1)*
- [eEitPresentFollow](#) [EITpfOut](#)  
*RW (Transparent, Sch. PF Present, Sch. PF Not Present)*
- boolean [FreeCAmode](#)  
*RO provides free\_CA\_mode of input (Scrambled = 1)*
- [eCaMode](#) [CAmodeOut](#)  
*RW (Transparent, Not Scrambled, CA Present)*
- [eRunningStatus](#) [RunStatusIn](#)  
*RO provides running status of input.*
- [eRunningStatus](#) [RunStatusOut](#)

- RW (Transparent or configurable status)*
- [eServiceType ServiceTypeIn](#)  
*RO provides service type of input.*
- [eServiceType ServiceTypeOut](#)  
*RW (Transparent or configurable)*
- [boolean UseOutputUserName](#)  
*User forced change of output service name.*
- [DvbString\\_t OutputUserName](#)  
*Maximum string length 255 characters.*
- [boolean UseOutputServiceProviderName](#)  
*User forced change of output service provider name.*
- [DvbString\\_t ServiceProviderNameIn](#)
- [DvbString\\_t ServiceProviderNameOut](#)

#### 10.217.1 Detailed Description

Structure that contains data about the Service Description Table of a service.

Definition at line 4847 of file DCM.idl.

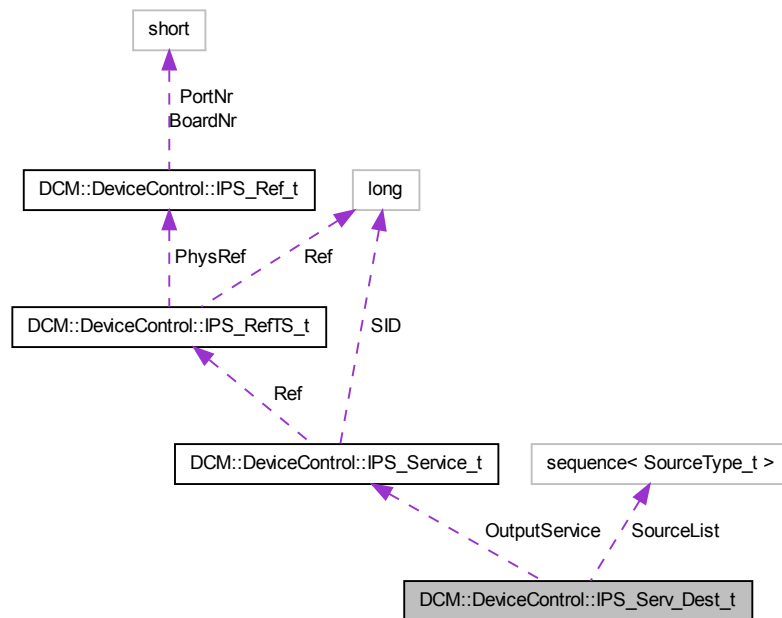
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.218 DCM::DeviceControl::IPS\_Serv\_Dest\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_Serv\_Dest\_t:



#### Public Attributes

- [IPS\\_Service\\_t OutputService](#)
- [IPS\\_Serv\\_Source\\_List\\_t SourceList](#)

#### 10.218.1 Detailed Description

Definition at line 5403 of file DCM.idl.

The documentation for this struct was generated from the following file:

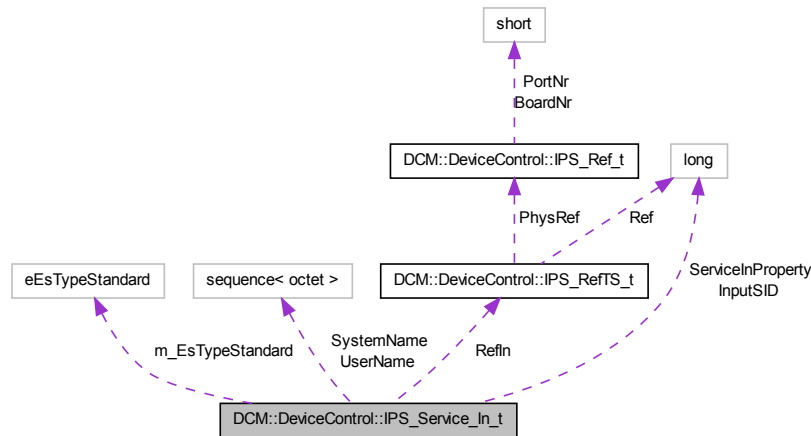
- [DCM.idl](#)

#### 10.219 DCM::DeviceControl::IPS\_Service\_In\_t Struct Reference

Incoming service information.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_Service\_In\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)
- [ServiceId\\_t InputSID](#)
- unsigned long [ServiceInProperty](#)  
*Read only Bitmap used by GUI to display specific icons (.*
- [DvbString\\_t SystemName](#)  
*Maximum string length 255 characters.*
- [DvbString\\_t UserName](#)  
*Maximum string length 255 characters.*
- [eEsTypeStandard m\\_EsTypeStandard](#)  
*The standard of the input TS.*

### 10.219.1 Detailed Description

Incoming service information.

Definition at line 4740 of file DCM.idl.

The documentation for this struct was generated from the following file:

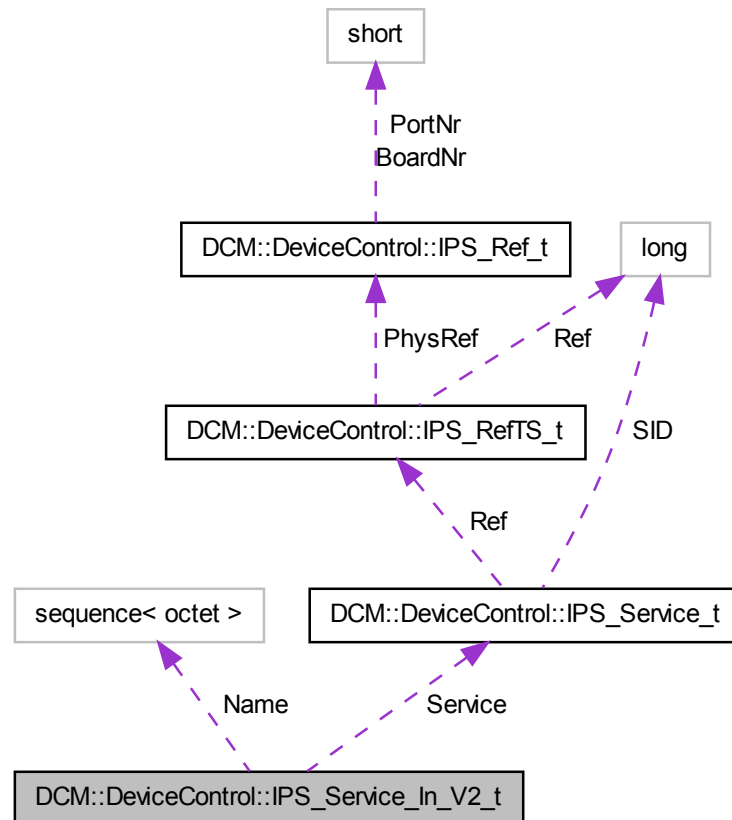
- [DCM.idl](#)

### 10.220 DCM::DeviceControl::IPS\_Service\_In\_V2\_t Struct Reference

A definition of an input service as used on the output.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_Service\_In\_V2\_t:



### Public Attributes

- [IPS\\_Service\\_t Service](#)
- [DvbString\\_t Name](#)

*Read only: The name of the service.*

### 10.220.1 Detailed Description

A definition of an input service as used on the output.

Definition at line 4916 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

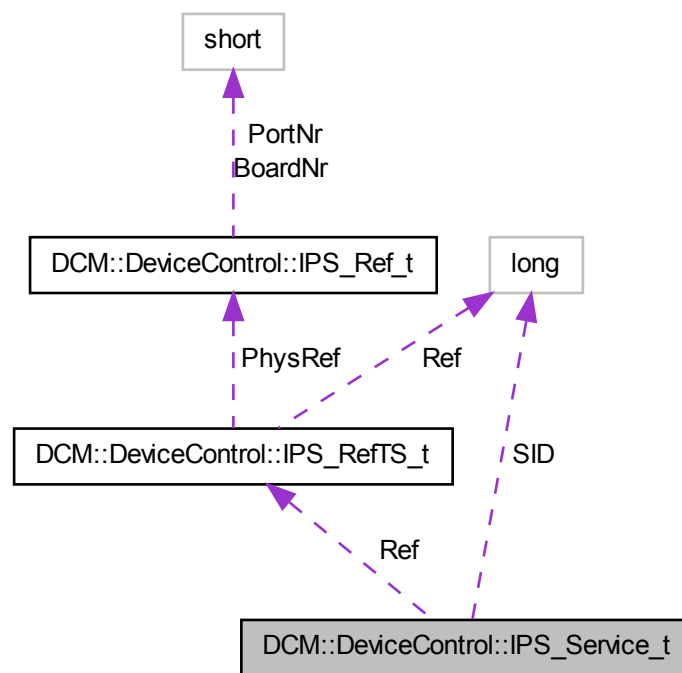
- [DCM.idl](#)

## 10.221 DCM::DeviceControl::IPS\_Service\_t Struct Reference

SID reference.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_Service\_t:



### Public Attributes

- [IPS\\_RefTS\\_t Ref](#)  
*Identifies the unique location (Board, Port, TS).*
- [ServiceId\\_t SID](#)  
*SID range: 0..65535.*

### 10.221.1 Detailed Description

SID reference.

Definition at line 4703 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)



## 10.222 DCM::DeviceControl::IPS\_ServiceData\_Out\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_ServiceData\_Out\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefOut](#)
- [ServiceId\\_t OutputSID](#)  
*ID of an outgoing service.*
- unsigned long [ServiceOutProperty](#)  
*Read only Bitmap used by GUI to display specific icons (.*
- boolean [FixedRemap](#)  
*User forced change of output service ID.*
- boolean [HDSERVICE](#)  
*Read/Write: Holds true if service is High definition service false for Standard definition service.*
- boolean [DVB\\_ScramblingLicense](#)  
*Read/Write: Holds true if service wants/has DVB\_SCRAMBLING license false if no license.*
- [IPS\\_SDT\\_Data\\_t SDTData](#)
- [IPS\\_Service\\_In\\_t Service](#)  
*Reference to the incoming service.*

## 10.222.1 Detailed Description

Definition at line 4870 of file DCM.idl.

The documentation for this struct was generated from the following file:

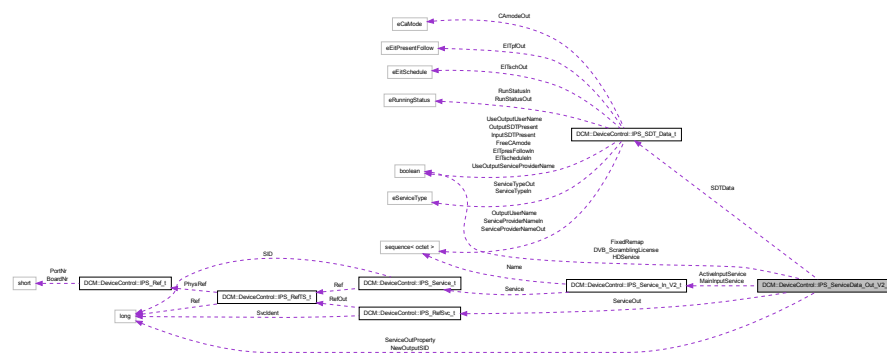
- [DCM.idl](#)

## 10.223 DCM::DeviceControl::IPS\_ServiceData\_Out\_V2\_t Struct Reference

Extended information about an output service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_ServiceData\_Out\_V2.t:



## Public Attributes

- **IPS\_RefSvc\_t ServiceOut**  
*Identifies the output service.*
- **ServiceId\_t NewOutputSID**  
*Requested Service ID for an outgoing service.*
- unsigned long **ServiceOutProperty**  
*Read only Bitmap used by GUI to display specific icons < Bit 0: Service present at input (true) or not (false). < Bit 1: Service scrambled by DCM (true means scrambled) < Bit 2: Service Active (Session Based) < Bit 3: Service is merged < Bit 4: at least one of the source input PIDs of this service is scrambled < Bit 5: True if output service is in backup < Bit 6: True if output service loss is active < Bit 7: True if output service is streaming < Bit 8: True if Service Redundancy Alarm is active < Other bits for future use.*
- boolean **FixedRemap**  
*User forced change of output service ID.*
- boolean **HDSERVICE**  
*Read/Write: Holds true if service is High definition service false for Standard definition service.*
- boolean **DVB\_ScramblingLicense**  
*Read/Write: Holds true if service wants/has DVB\_SCRAMBLING license; false if no license.*
- **IPS\_SDT\_Data\_t SDTData**
- **IPS\_Service\_In\_V2\_t MainInputService**  
*Read only : Reference to the main input service that was used to create the output service.*
- **IPS\_Service\_In\_V2\_t ActiveInputService**  
*Read only : can be different from main input service e.g. when service is in backup, ...*

### 10.223.1 Detailed Description

Extended information about an output service.

Definition at line 4924 of file DCM.idl.

The documentation for this struct was generated from the following file:

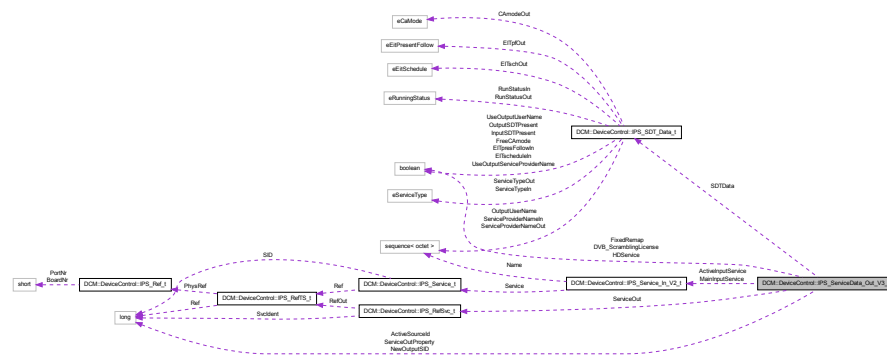
- DCM.idl

## 10.224 DCM::DeviceControl::IPS\_ServiceData\_Out\_V3\_t Struct Reference

Extended information about an output service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_ServiceData\_Out\_V3.t:



## Public Attributes

- **IPS\_RefSvc\_t ServiceOut**  
*Identifies the output service.*
- **ServiceId\_t NewOutputSID**  
*Requested Service ID for an outgoing service.*
- unsigned long **ServiceOutProperty**  
*Read only Bitmap used by GUI to display specific icons < Bit 0: Service present at input (true) or not (false). < Bit 1: Service scrambled by DCM (true means scrambled) < Bit 2: Service Active (Session Based) < Bit 3: Service is merged < Bit 4: at least one of the source input PIDs of this service is scrambled < Bit 5: True if output service is in backup < Bit 6: True if output service loss is active < Bit 7: True if output service is streaming < Bit 8: True if Service Redundancy Alarm is active < Other bits for future use.*
- boolean **FixedRemap**  
*User forced change of output service ID.*
- boolean **HDSERVICE**  
*Read/Write: Holds true if service is High definition service false for Standard definition service.*
- boolean **DVB\_ScramblingLicense**  
*Read/Write: Holds true if service wants/has DVB\_SCRAMBLING license; false if no license.*
- **IPS\_SDT\_Data\_t SDTData**
- **IPS\_Service\_In\_V2\_t MainInputService**  
*Read only : Reference to the main input service that was used to create the output service.*
- **IPS\_Service\_In\_V2\_t ActiveInputService**  
*Read only : can be different from main input service e.g. when service is in backup, ...*
- **AlternateSrcId\_t ActiveSourceId**  
*Read only: the source ID of the currently active alternate source.*

### 10.224.1 Detailed Description

Extended information about an output service.

Definition at line 4955 of file DCM.idl.

The documentation for this struct was generated from the following file:

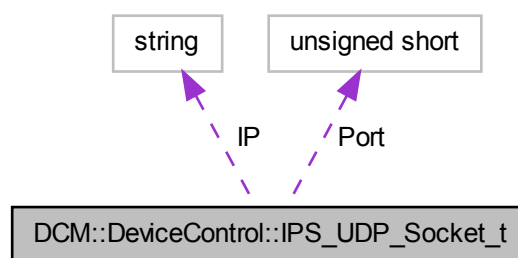
- [DCM.idl](#)

## 10.225 DCM::DeviceControl::IPS\_UDP\_Socket\_t Struct Reference

The socket describes the IP address & UDP port on which a TS is played out.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPS\_UDP\_Socket\_t:



### Public Attributes

- string [IP](#)
- unsigned short [Port](#)

*Recommended UDP Port range: 1024 (0X400) .. 65535 (0xFFFF).*

### 10.225.1 Detailed Description

The socket describes the IP address & UDP port on which a TS is played out.

Definition at line 2310 of file DCM.idl.

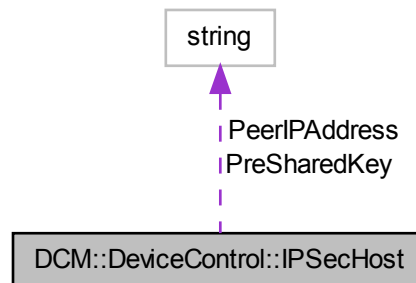
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.226 DCM::DeviceControl::IPSecHost Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IPSecHost:



#### Public Attributes

- string [PeerIPAddress](#)  
*The IP address of the IPsec capable host.*
- string [PreSharedKey](#)  
*The preshard key used for setting up IPsec.*

#### 10.226.1 Detailed Description

Definition at line 24449 of file DCM.idl.

The documentation for this struct was generated from the following file:

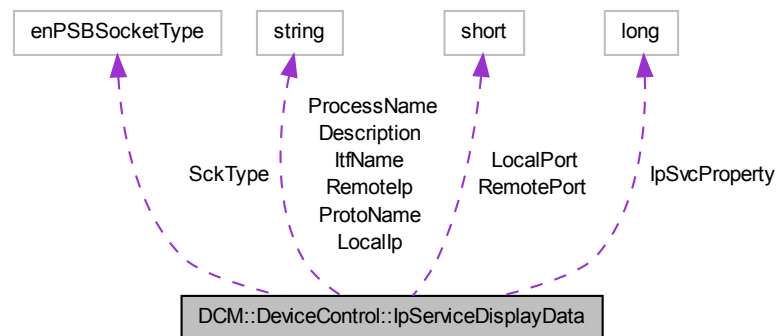
- [DCM.idl](#)

## 10.227 DCM::DeviceControl::IpServiceDisplayData Struct Reference

Description of an active or listening port.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::IpServiceDisplayData:



## Public Attributes

- [enPSBSocketType](#) [SckType](#)  
*Tcp, udp, tcp6, udp6, ...*
- [string](#) [ItfName](#)  
*Interface of listening port, or 'all'.*
- [string](#) [LocalIp](#)  
*IP address of local itf or 0.0.0.0 (any)*
- [string](#) [Remotelp](#)  
*Remote IP address or 0.0.0.0 (any)*
- [unsigned short](#) [LocalPort](#)  
*Port number of listening port.*
- [unsigned short](#) [RemotePort](#)  
*0 or port number in case of established connection*
- [string](#) [ProtoName](#)  
*Name of application level protocol if meaningful one exists, e.g. ssh.*
- [string](#) [ProcessName](#)  
*Name of process that has opened the port.*
- [string](#) [Description](#)  
*Usage description and features that are related.*
- [unsigned long](#) [IpSvcProperty](#)  
*Bitmap:*

### 10.227.1 Detailed Description

Description of an active or listening port.

Definition at line 24638 of file DCM.idl.

The documentation for this struct was generated from the following file:

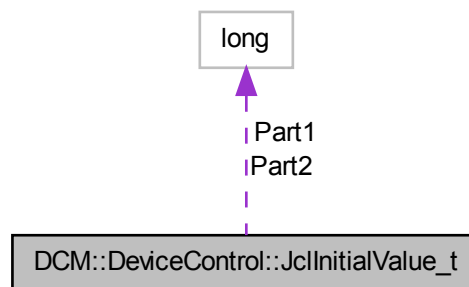
- [DCM.idl](#)

## 10.228 DCM::DeviceControl::JclInitialValue\_t Struct Reference

JCL initial value for Hitachi.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::JclInitialValue\_t:



### Public Attributes

- unsigned long [Part1](#)
- unsigned long [Part2](#)

### 10.228.1 Detailed Description

JCL initial value for Hitachi.

Definition at line 24691 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

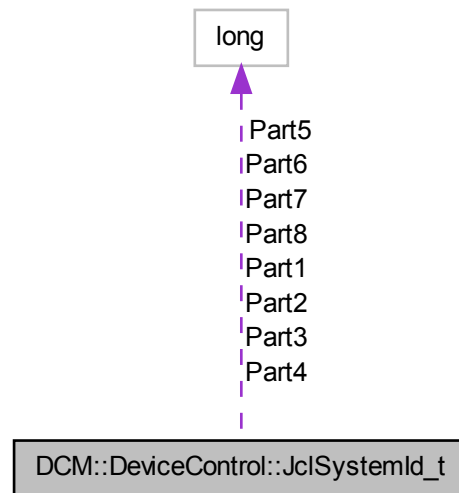
- [DCM.idl](#)

## 10.229 DCM::DeviceControl::JclSystemId\_t Struct Reference

JCL system ID for Hitachi.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::JclSystemId\_t:



#### Public Attributes

- unsigned long [Part1](#)
- unsigned long [Part2](#)
- unsigned long [Part3](#)
- unsigned long [Part4](#)
- unsigned long [Part5](#)
- unsigned long [Part6](#)
- unsigned long [Part7](#)
- unsigned long [Part8](#)

#### 10.229.1 Detailed Description

JCL system ID for Hitachi.

Definition at line 24698 of file DCM.idl.

The documentation for this struct was generated from the following file:

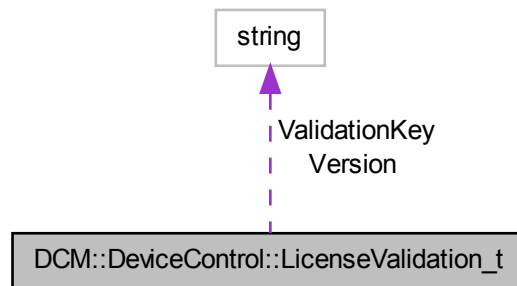
- [DCM.idl](#)

#### 10.230 DCM::DeviceControl::LicenseValidation\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::LicenseValidation\_t:



#### Public Attributes

- string [Version](#)  
*Version of the licenses.*
- string [ValidationKey](#)  
*Validation Key.*

#### 10.230.1 Detailed Description

Definition at line 20614 of file DCM.idl.

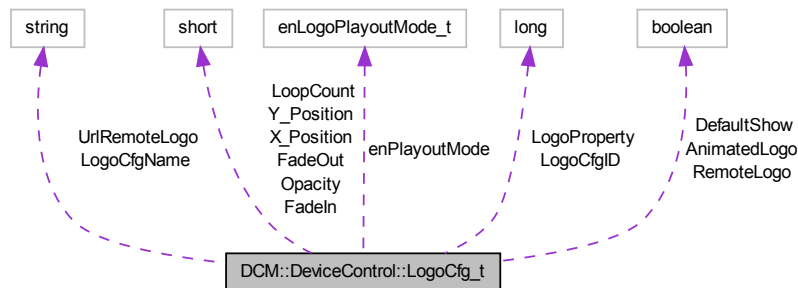
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.231 DCM::DeviceControl::LogoCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::LogoCfg\_t:



### Public Attributes

- [LogoCfgID\\_t LogoCfgID](#)  
*unique logo configuration identifier (must be 0 when adding a new logo configuration)*
- [string LogoCfgName](#)  
*logo configuration name, maximum 64 characters*
- [unsigned short X\\_Position](#)  
*X position in pixels (range [0, 1920[), left is 0.*
- [unsigned short Y\\_Position](#)  
*Y position in pixels (range [0, 1080[), top is 0.*
- [unsigned short Opacity](#)  
*10 \* opacity in % and in steps of .5 % (e.g. Opacity = 105 means 10.5 %), < 100% opaque means not transparent at all.*
- [boolean DefaultShow](#)  
*True if the logo should be displayed by default.*
- [unsigned short FadeIn](#)  
*in frames, max 300 frames, 0 is instant display*
- [unsigned short FadeOut](#)  
*in frames, max 300 frames, 0 is instant removal*
- [boolean AnimatedLogo](#)  
*False: static logo, true: animated logo.*
- [enLogoPlayoutMode\\_t enPlayoutMode](#)  
*Playout mode for animated logos.*
- [unsigned short LoopCount](#)  
*Number of times an animated logo should be displayed: loop count of 0 means animation is played continuously, loop count of 3 means animation is played three times.*
- [boolean RemoteLogo](#)  
*Is the logo locally or remotely stored.*
- [string UriRemoteLogo](#)  
*URL to remote logo.*
- [unsigned long LogoProperty](#)  
*Read only Bitmap.*

### 10.231.1 Detailed Description

Definition at line 13808 of file DCM.idl.

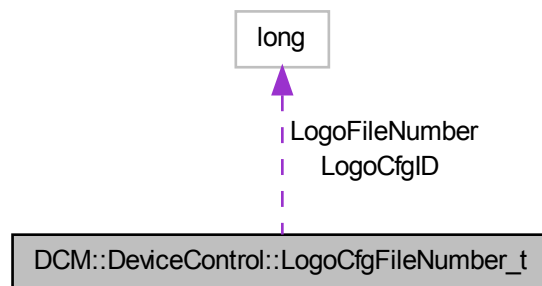
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.232 DCM::DeviceControl::LogoCfgFileNumber\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::LogoCfgFileNumber\_t:



### Public Attributes

- [LogoCfgID\\_t](#) `LogoCfgID`
- [LogoFileNumber\\_t](#) `LogoFileNumber`

### 10.232.1 Detailed Description

Definition at line 13855 of file DCM.idl.

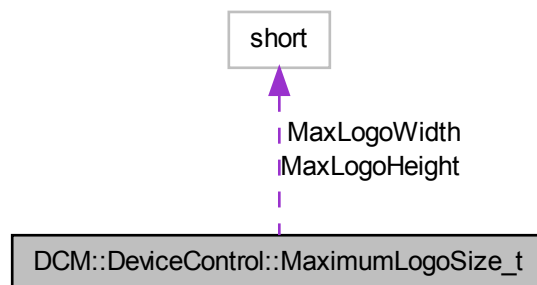
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.233 DCM::DeviceControl::MaximumLogoSize\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MaximumLogoSize\_t:



#### Public Attributes

- unsigned short [MaxLogoWidth](#)
- unsigned short [MaxLogoHeight](#)  
*Maximum logo width in pixels, 0 means unlimited.*

#### 10.233.1 Detailed Description

Definition at line 13847 of file DCM.idl.

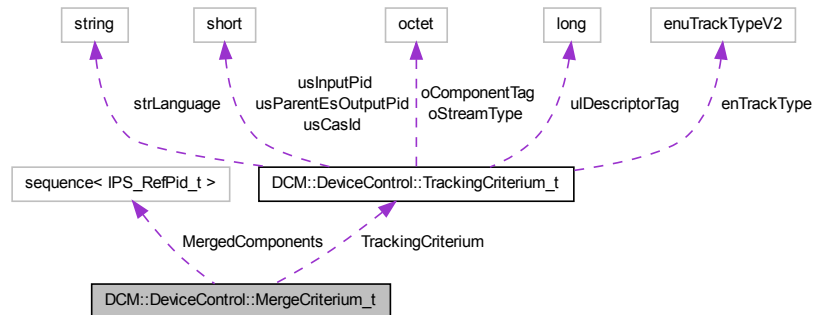
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.234 DCM::DeviceControl::MergeCriterium\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MergeCriterium\_t:



### Public Attributes

- [TrackingCriterium\\_t TrackingCriterium](#)
- [IPS\\_RefPidList\\_t MergedComponents](#)

*a list of [IPS\\_RefPid\\_t](#)'s of components merged in by this TrackingCriterium*

### 10.234.1 Detailed Description

Definition at line 5059 of file DCM.idl.

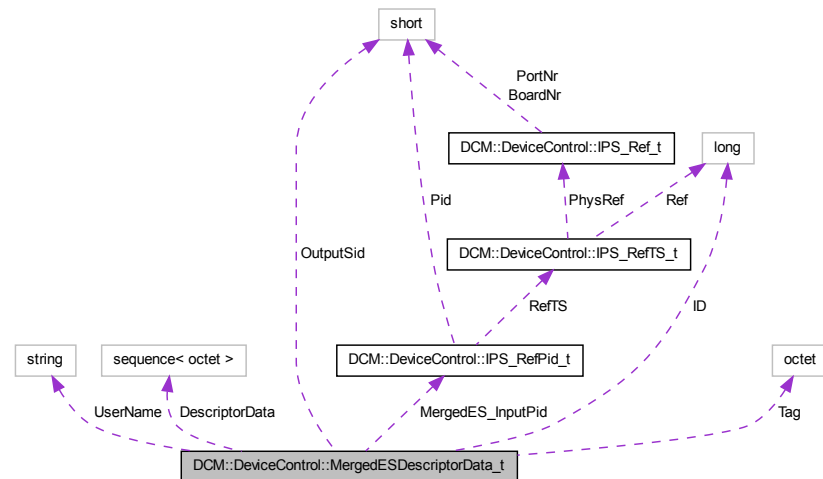
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.235 DCM::DeviceControl::MergedESDescriptorData\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MergedESDescriptorData\_t:



### Public Attributes

- unsigned short [OutputSid](#)
- [IPS\\_RefPid\\_t](#) [MergedES\\_InputPid](#)
- long [ID](#)
- string [UserName](#)
- octet [Tag](#)
- [ByteStream](#) [DescriptorData](#)

#### 10.235.1 Detailed Description

Definition at line 8025 of file DCM.idl.

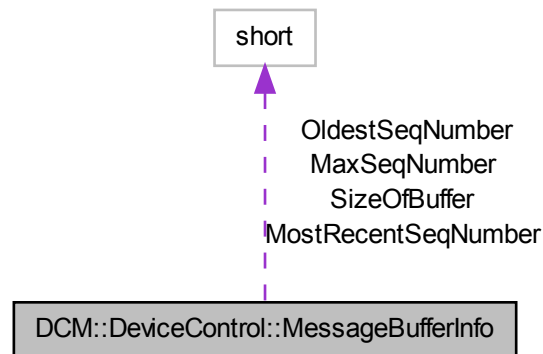
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.236 DCM::DeviceControl::MessageBufferInfo Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MessageBufferInfo:



#### Public Attributes

- unsigned short [OldestSeqNumber](#)  
*Oldest Message in the Buffer.*
- unsigned short [MostRecentSeqNumber](#)  
*Most Recent Message in the Buffer.*
- unsigned short [MaxSeqNumber](#)  
*Maximum allowed sequence Numbers.*
- unsigned short [SizeOfBuffer](#)

#### 10.236.1 Detailed Description

Definition at line 22361 of file DCM.idl.

The documentation for this struct was generated from the following file:

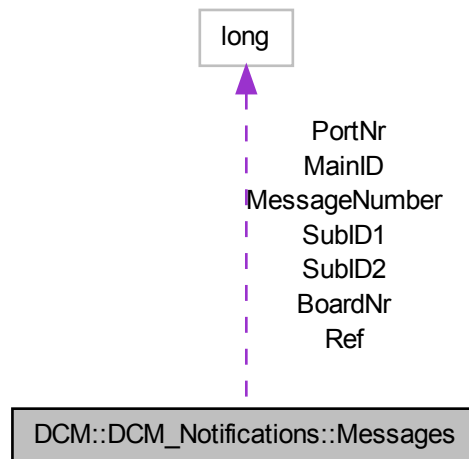
- [DCM.idl](#)

### 10.237 DCM::DCM\_Notifications::Messages Struct Reference

Notification sent by MB when a new message is available (alarms)

```
import "DCM.idl";
```

Collaboration diagram for DCM::DCM\_Notifications::Messages:



#### Public Attributes

- unsigned long [MainID](#)
- unsigned long [BoardNr](#)
- unsigned long [PortNr](#)
- unsigned long [Ref](#)
- unsigned long [SubID1](#)
- unsigned long [SubID2](#)
- unsigned long [MessageNumber](#)

#### 10.237.1 Detailed Description

Notification sent by MB when a new message is available (alarms)

Definition at line 32233 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

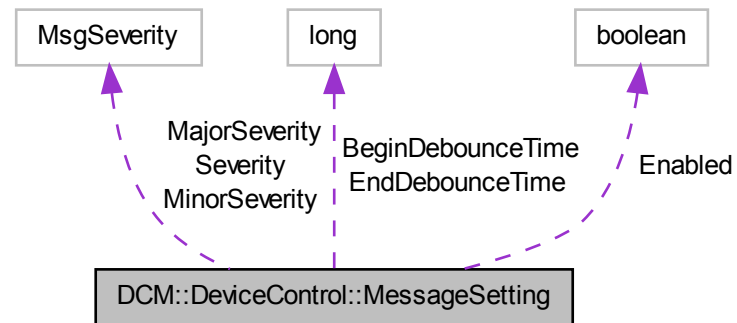
## 10.238 DCM::DeviceControl::MessageSetting Struct Reference

Message settings.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::MessageSetting:



#### Public Attributes

- boolean [Enabled](#)  
*enable/disabling of individual messages.*
- [MsgSeverity](#) [Severity](#)  
*will be used for the binary messages.*
- [MsgSeverity](#) [MinorSeverity](#)  
*will be used for the analog messages.*
- [MsgSeverity](#) [MajorSeverity](#)  
*will be used for the analog messages.*
- unsigned long [BeginDebounceTime](#)  
*debouncing time when the alarm begins, switches from non-active to active.*
- unsigned long [EndDebounceTime](#)  
*debouncing time when the alarm ends, switches from active to non-active.*

#### 10.238.1 Detailed Description

Message settings.

Definition at line 22445 of file DCM.idl.

The documentation for this struct was generated from the following file:

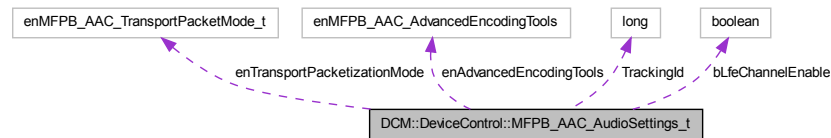
- [DCM.idl](#)

## 10.239 DCM::DeviceControl::MFPB\_AAC\_AudioSettings\_t Struct Reference

AAC audio processing settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AAC\_AudioSettings\_t:



### Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
*Identifies the elementary streams encoder where the setting should be added to.*
- [enMFPB\\_AAC\\_TransportPacketMode\\_t enTransportPacketizationMode](#)  
*Bit stream mode, [MPEG-4 LATM/LOAS by default].*
- [enMFPB\\_AAC\\_AdvancedEncodingTools enAdvancedEncodingTools](#)  
*enAdvancedEncodingTools is constrained by:*
- boolean [bLfeChannelEnable](#)  
*LFE Channel Enable default true.*

### 10.239.1 Detailed Description

AAC audio processing settings.

#### Version

Release 10.0

Definition at line 11951 of file DCM.idl.

The documentation for this struct was generated from the following file:

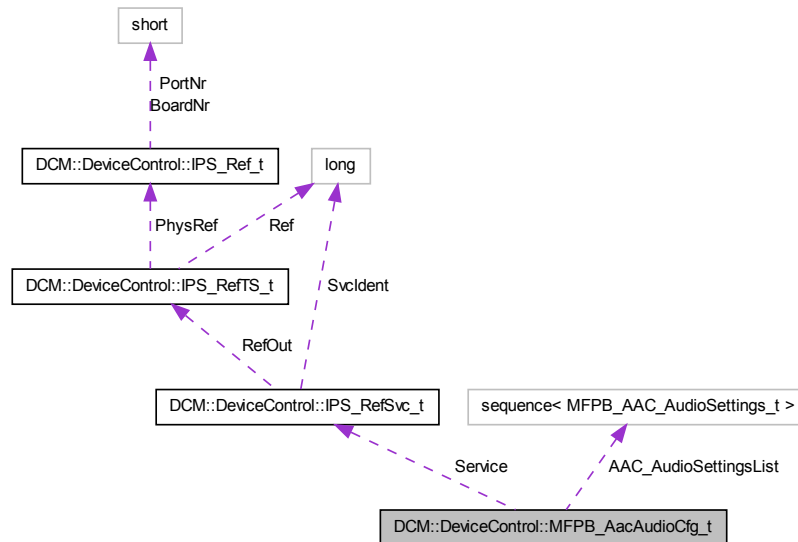
- [DCM.idl](#)

## 10.240 DCM::DeviceControl::MFPB\_AacAudioCfg\_t Struct Reference

Configuration settings for the AAC audio settings of a service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AacAudioCfg\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_AAC\\_AudioSettingsList\\_t AAC\\_AudioSettingsList](#)

*AAC Audio settings per ES.*

### 10.240.1 Detailed Description

Configuration settings for the AAC audio settings of a service.

Definition at line 11983 of file DCM.idl.

The documentation for this struct was generated from the following file:

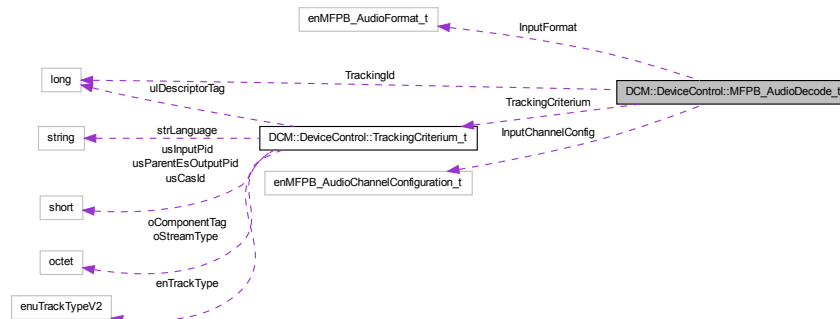
- [DCM.idl](#)

### 10.241 DCM::DeviceControl::MFPB\_AudioDecode\_t Struct Reference

Audio decode settings together with fields identifying the Audio component they're for.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AudioDecode\_t:



### Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
*0 when creating a new entry*
- [TrackingCriterium\\_t TrackingCriterium](#)
- [enMFPB\\_AudioFormat\\_t InputFormat](#)  
*Format of the input.*
- [enMFPB\\_AudioChannelConfiguration\\_t InputChannelConfig](#)  
*Input channel configuration.*

#### 10.241.1 Detailed Description

Audio decode settings together with fields identifying the Audio component they're for.

#### Version

Release 10.0

Definition at line 11653 of file DCM.idl.

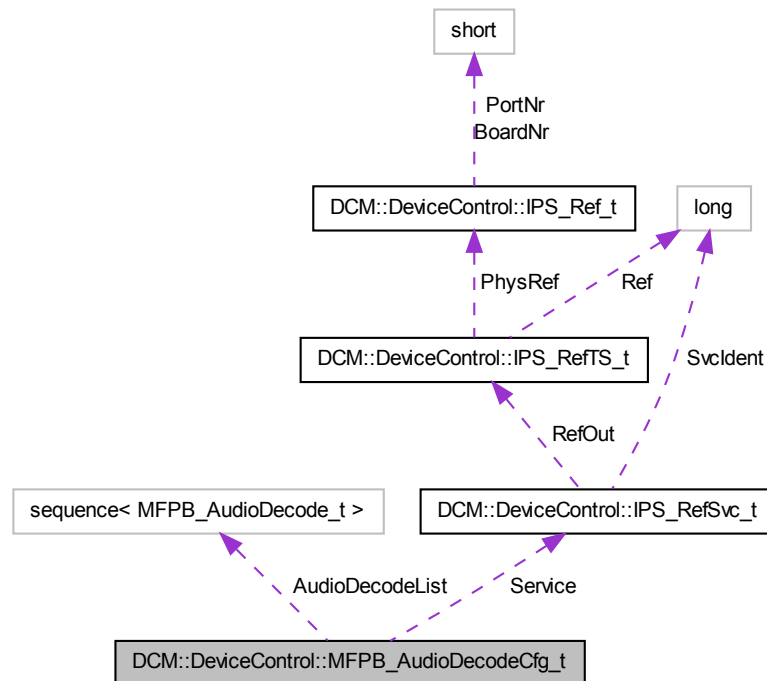
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.242 DCM::DeviceControl::MFPB\_AudioDecodeCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AudioDecodeCfg\_t:



#### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_AudioDecodeList\\_t AudioDecodeList](#)

#### 10.242.1 Detailed Description

Definition at line 11667 of file DCM.idl.

The documentation for this struct was generated from the following file:

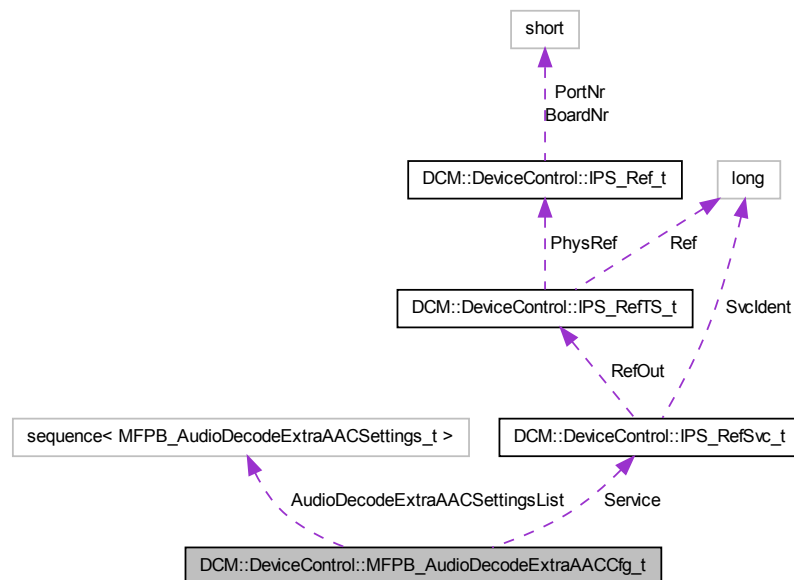
- [DCM.idl](#)

### 10.243 DCM::DeviceControl::MFPB\_AudioDecodeExtraAACCfg\_t Struct Reference

Configuration for extra AAC decoder settings per service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AudioDecodeExtraAACfg\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_AudioDecodeExtraAACSettingsList\\_t AudioDecodeExtraAACSettingsList](#)

*Extra AAC decoder settings per ES.*

### 10.243.1 Detailed Description

Configuration for extra AAC decoder settings per service.

### Version

Release 10.10

Definition at line 12470 of file DCM.idl.

The documentation for this struct was generated from the following file:

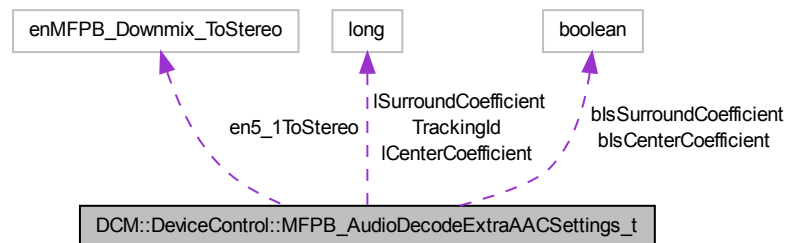
- [DCM.idl](#)

## 10.244 DCM::DeviceControl::MFPB\_AudioDecodeExtraAACSettings\_t Struct Reference

Extra AAC decoder settings per audio ES.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AudioDecodeExtraAACSettings\_t:



### Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
*Identifies the elementary streams encoder where the setting should be added to (.*
- [enMFPB\\_Downmix\\_ToStereo en5\\_1ToStereo](#)  
*Select channels to keep when converting to stereo. Allowed values are LTRT and [LORO default].*
- boolean [bIsCenterCoefficient](#)  
*Center Coefficient Present Yes(true)/[No default].*
- long [ICenterCoefficient](#)  
*Center Coefficient TODO: range and default.*
- boolean [bIsSurroundCoefficient](#)  
*Surround Coefficient Present Yes(true)/[No default].*
- long [ISurroundCoefficient](#)  
*Surround Coefficient TODO range and default.*

#### 10.244.1 Detailed Description

Extra AAC decoder settings per audio ES.

#### Version

Release 10.10

Definition at line 12452 of file DCM.idl.

The documentation for this struct was generated from the following file:

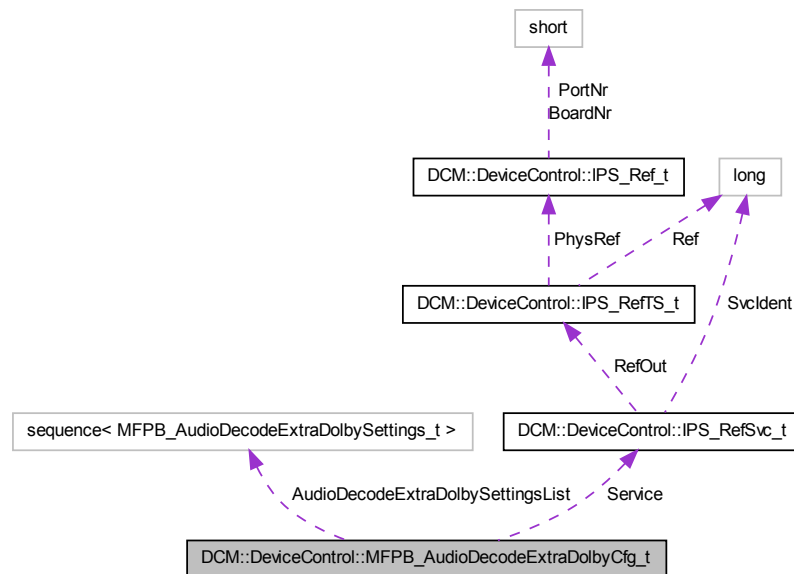
- [DCM.idl](#)

## 10.245 DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbyCfg\_t Struct Reference

Configuration for extra Dolby decoder settings per service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbyCfg\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_AudioDecodeExtraDolbySettingsList\\_t AudioDecodeExtraDolbySettingsList](#)

*Extra Dolby decoder settings per ES.*

### 10.245.1 Detailed Description

Configuration for extra Dolby decoder settings per service.

### Version

Release 10.10

Definition at line 12562 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

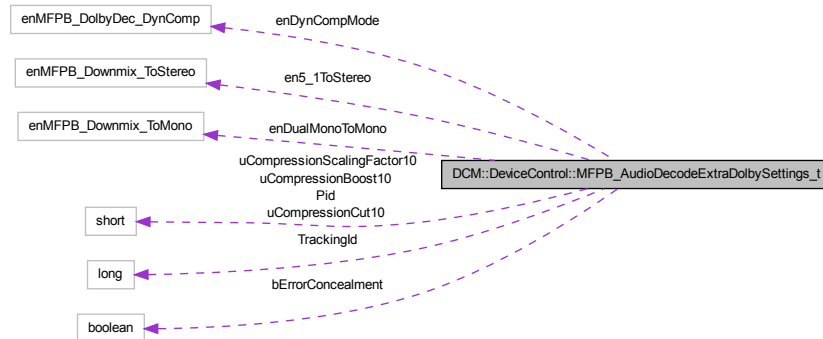
## 10.246 DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbySettings\_t Struct Reference

Extra Dolby decoder settings per audio ES.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::MFPB\_AudioDecodeExtraDolbySettings\_t:



## Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
Identifies the elementary streams encoder where the setting should be added to (.
- [enMFPB\\_Downmix\\_ToMono enDualMonoToMono](#)  
Select how to convert dual mono channels to mono. [Left by default].
- unsigned short [Pid](#)  
For Future functionality. The new PID value for the extra right channel. Only used when enDualMonoToMono is split.
- [enMFPB\\_Downmix\\_ToStereo en5\\_1ToStereo](#)  
Select channels to keep when converting to stereo. Allowed values are LTRT, [LORO default] and auto.
- [enMFPB\\_DolbyDec\\_DynComp enDynCompMode](#)  
Dynamic Compression Mode [Line by default].
- unsigned short [uCompressionCut10](#)  
Compression Cut times 10 (eg. value 9 will be 0.9 in the GUI). Range [0,10 default]. Only used in custom Dynamic Compression Mode, else ignored and set to 10 or 0 in case of DynComp\_None.
- unsigned short [uCompressionBoost10](#)  
Compression Boost times 10 (eg. value 9 will be 0.9 in the GUI). Range [0,10 default]. Only used in custom Dynamic Compression Mode, else ignored and set to 10 or 0 in case of DynComp\_None.
- unsigned short [uCompressionScalingFactor10](#)  
For Future functionality. Compression Scaling factor times 10 (eg. value 9 will be 0.9 in the GUI). Range [0,10 default]. Only used in line and custom Dynamic Compression Mode.
- boolean [bErrorConcealment](#)  
Error Concealment: [On default]/Off(false)

### 10.246.1 Detailed Description

Extra Dolby decoder settings per audio ES.

## Version

Release 10.10

Definition at line 12536 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.247 DCM::DeviceControl::MFPB\_AudioDecodeExtraMPEGL2Cfg\_t Struct Reference

Configuration for extra MPEG1-L2 decoder settings per service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AudioDecodeExtraMPEGL2Cfg\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_AudioDecodeExtraMPEGL2SettingsList\\_t AudioDecodeExtraMPEGL2SettingsList](#)

*Extra decoder settings per ES.*

### 10.247.1 Detailed Description

Configuration for extra MPEG1-L2 decoder settings per service.

## Version

Release 10.0

Definition at line 12402 of file DCM.idl.

The documentation for this struct was generated from the following file:

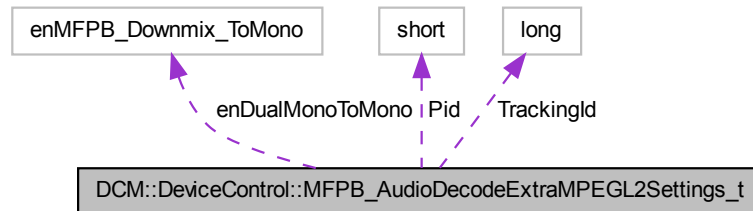
- [DCM.idl](#)

## 10.248 DCM::DeviceControl::MFPB\_AudioDecodeExtraMPEGL2Settings\_t Struct Reference

Extra MPEG1-L2 decoder settings per audio ES.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AudioDecodeExtraMPEGL2Settings\_t:



### Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
*Identifies the elementary streams encoder where the setting should be added to (.*
- [enMFPB\\_Downmix\\_ToMono enDualMonoToMono](#)  
*Select how to convert dual mono channels to mono. [Left by default].*
- unsigned short [Pid](#)  
*For Future functionality. The new PID value for the extra right channel. Only used when enDualMonoToMono is split.*

### 10.248.1 Detailed Description

Extra MPEG1-L2 decoder settings per audio ES.

### Version

Release 10.0

Definition at line 12387 of file DCM.idl.

The documentation for this struct was generated from the following file:

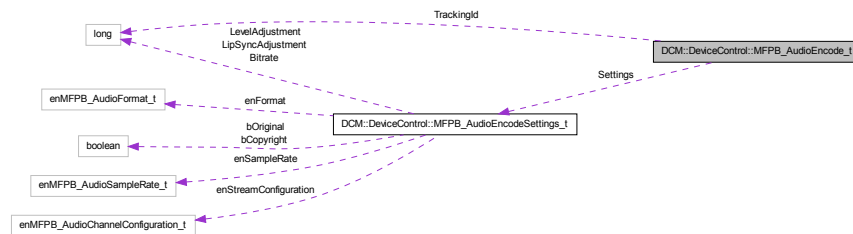
- [DCM.idl](#)

## 10.249 DCM::DeviceControl::MFPB\_AudioEncode\_t Struct Reference

Audio encode settings together with field identifying the Audio component they're for.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AudioEncode\_t:



## Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
*Must be equal to the tracking ID of a Audio decode.*
- [MFPB\\_AudioEncodeSettings\\_t Settings](#)

## 10.249.1 Detailed Description

Audio encode settings together with field identifying the Audio component they're for.

## Version

Release 10.0

Definition at line 11785 of file DCM.idl.

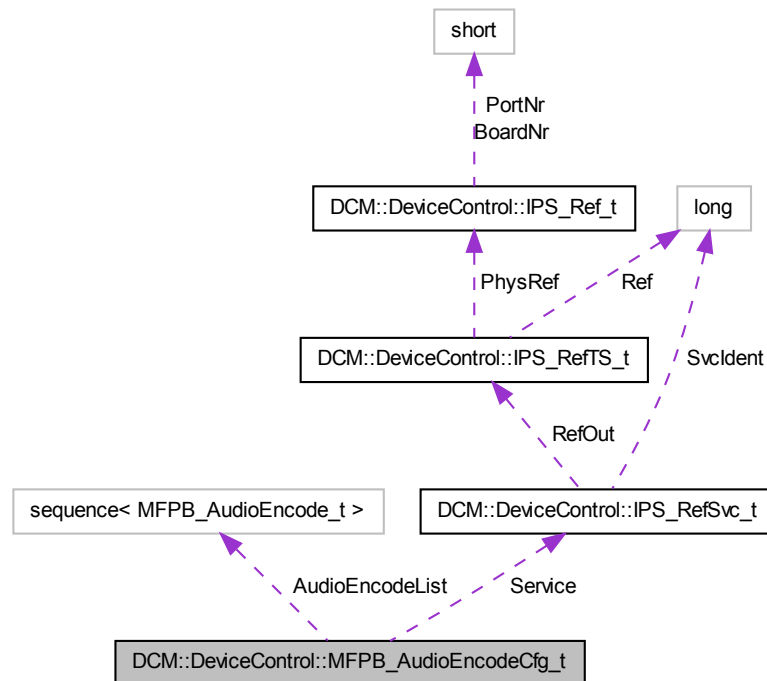
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.250 DCM::DeviceControl::MFPB\_AudioEncodeCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AudioEncodeCfg\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_AudioEncodeList\\_t AudioEncodeList](#)

#### 10.250.1 Detailed Description

Definition at line 11792 of file DCM.idl.

The documentation for this struct was generated from the following file:

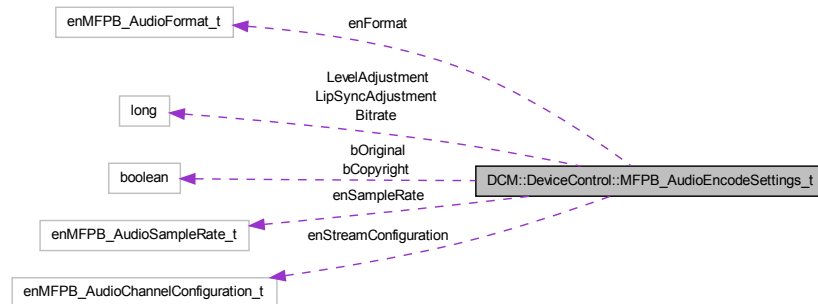
- [DCM.idl](#)

### 10.251 DCM::DeviceControl::MFPB\_AudioEncodeSettings\_t Struct Reference

Audio encode settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AudioEncodeSettings\_t:



## Public Attributes

- [enMFPB\\_AudioFormat\\_t enFormat](#)  
*Audio encoding format, see enMFPB\_AudioFormat\_t for supported formats.*
- unsigned long [Bitrate](#)  
*Bitrate in bps.*
- long [LevelAdjustment](#)  
*Unit in dB times 10, Gui range -20 to 20 this is equivalent to value range -200 to 200.*
- [enMFPB\\_AudioSampleRate\\_t enSampleRate](#)  
*Must be follow input.*
- [enMFPB\\_AudioChannelConfiguration\\_t enStreamConfiguration](#)  
*Number of output channels. If source contains less channels, basic up mix will be performed.*
- long [LipSyncAdjustment](#)  
*+/- 300 ms for lipsync adjustment.*
- boolean [bCopyright](#)  
*Not used (behaviour is follow input, or true if not available), Copyright, [yes (true) by default].*
- boolean [bOriginal](#)  
*Not used (behaviour is follow input, or true if not available), Original, [yes (true) by default].*

### 10.251.1 Detailed Description

Audio encode settings.

#### Version

Release 10.0

Definition at line 11733 of file DCM.idl.

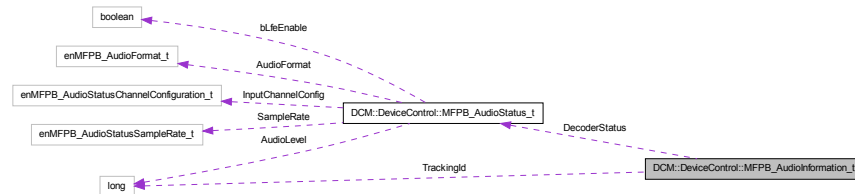
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.252 DCM::DeviceControl::MFPB\_AudioInformation\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AudioInformation\_t:



## Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)
- [MFPB\\_AudioStatus\\_t DecoderStatus](#)

## 10.252.1 Detailed Description

Definition at line 11619 of file DCM.idl.

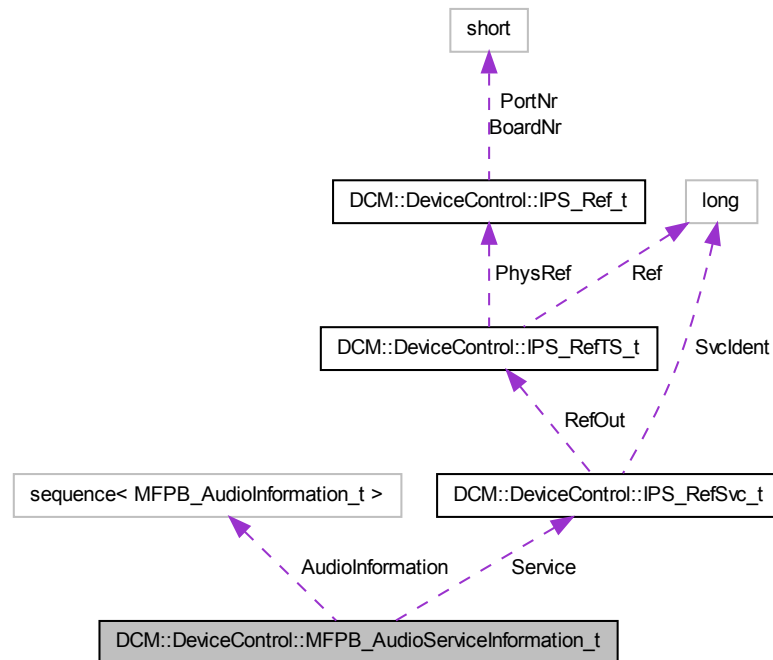
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.253 DCM::DeviceControl::MFPB\_AudioServiceInformation\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_AudioServiceInformation\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_AudioInformationList\\_t AudioInformation](#)

### 10.253.1 Detailed Description

Definition at line 11626 of file DCM.idl.

The documentation for this struct was generated from the following file:

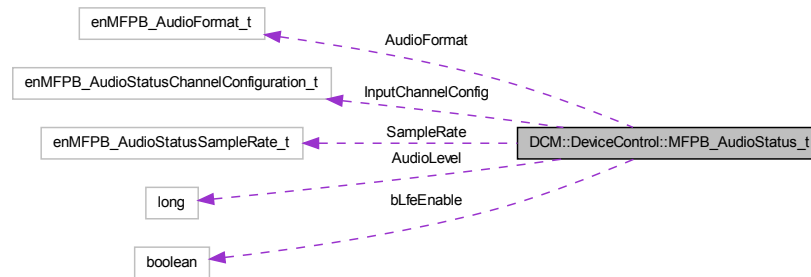
- [DCM.idl](#)

## 10.254 DCM::DeviceControl::MFPB\_AudioStatus\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::MFPB\_AudioStatus\_t:



### Public Attributes

- [enMFPB\\_AudioFormat\\_t](#) [AudioFormat](#)
- [enMFPB\\_AudioStatusChannelConfiguration\\_t](#) [InputChannelConfig](#)
- [enMFPB\\_AudioStatusSampleRate\\_t](#) [SampleRate](#)
- [boolean](#) [bLfeEnable](#)  
*LFE on(true)/off, only for AAC and Dolby.*
- [long](#) [AudioLevel](#)  
*Reserved for future.*

#### 10.254.1 Detailed Description

Definition at line 11610 of file DCM.idl.

The documentation for this struct was generated from the following file:

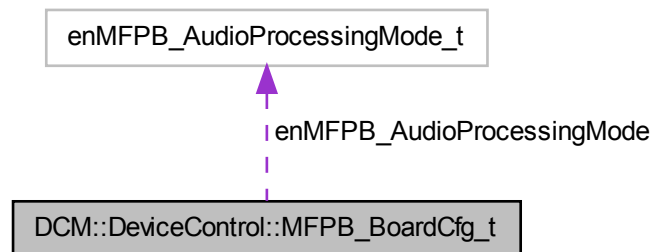
- [DCM.idl](#)

### 10.255 DCM::DeviceControl::MFPB\_BoardCfg\_t Struct Reference

Structure to set/get transcoder board configuration.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_BoardCfg\_t:



#### Public Attributes

- [enMFPB\\_AudioProcessingMode\\_t enMFPB\\_AudioProcessingMode](#)  
*How audio will be handled.*

#### 10.255.1 Detailed Description

Structure to set/get transcoder board configuration.

#### Version

Release 10.0

Definition at line 10253 of file DCM.idl.

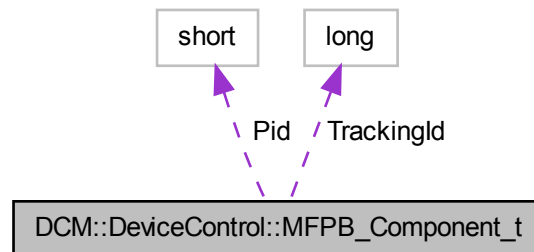
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.256 DCM::DeviceControl::MFPB\_Component\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_Component\_t:



#### Public Attributes

- unsigned short [Pid](#)
- [MFPB\\_TrackingID\\_t](#) [TrackingId](#)  
*0 if the component matches no tracking criteria.*

#### 10.256.1 Detailed Description

Definition at line 10557 of file DCM.idl.

The documentation for this struct was generated from the following file:

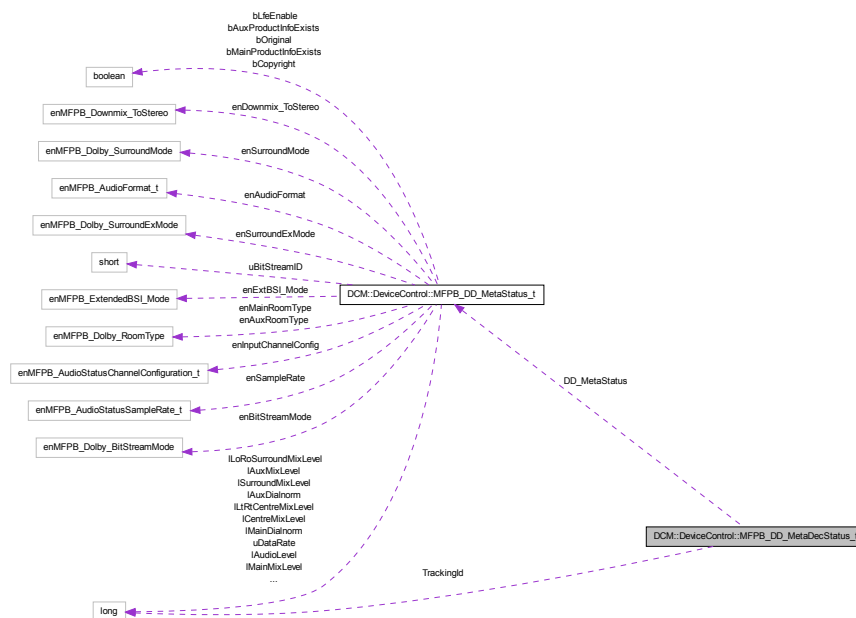
- [DCM.idl](#)

### 10.257 DCM::DeviceControl::MFPB\_DD\_MetaDecStatus\_t Struct Reference

Dolby meta data status on the decoder side for a specific component.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_DD\_MetaDecStatus\_t:



## Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)
- [MFPB\\_DD\\_MetaStatus\\_t DD\\_MetaStatus](#)

*Status of the meta data.*

### 10.257.1 Detailed Description

Dolby meta data status on the decoder side for a specific component.

## Version

Release 10.20

Definition at line 12709 of file DCM.idl.

The documentation for this struct was generated from the following file:

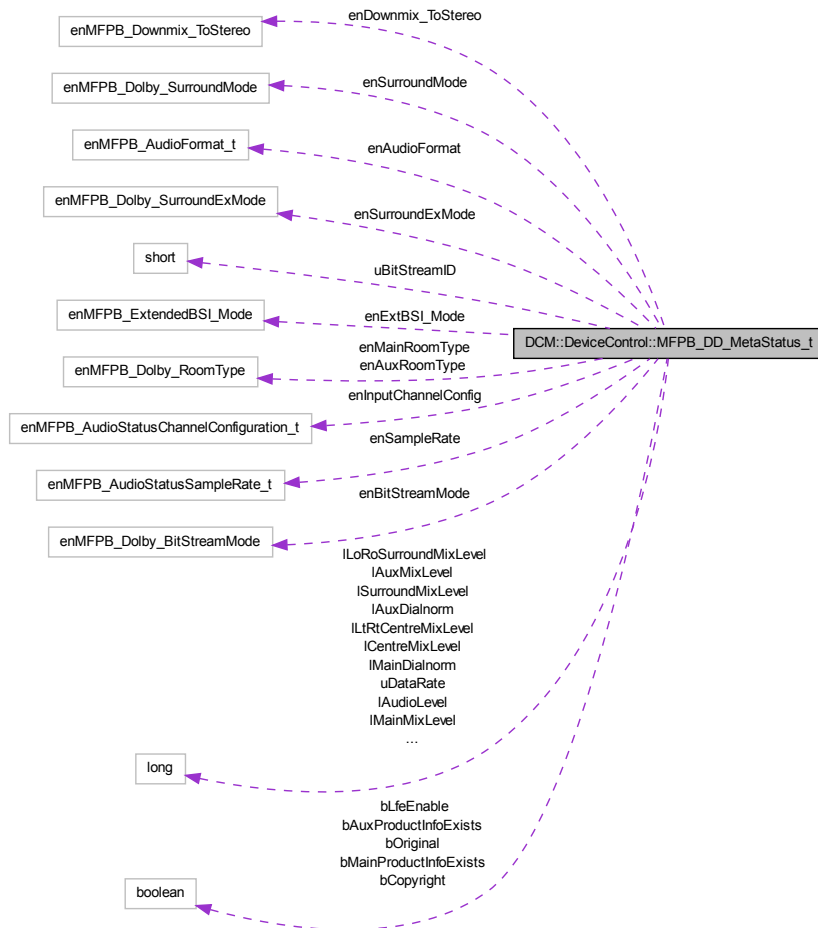
- [DCM.idl](#)

## 10.258 DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t Struct Reference

Dolby meta data status for a specific component.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_DD\_MetaStatus\_t:



## Public Attributes

- [enMFPB\\_AudioFormat\\_t](#) [enAudioFormat](#)  
*Dolby Digital or Dolby Digital Plus.*
- [enMFPB\\_AudioStatusChannelConfiguration\\_t](#) [enInputChannelConfig](#)  
*Channel configuration.*
- [enMFPB\\_AudioStatusSampleRate\\_t](#) [enSampleRate](#)
- boolean [bLfeEnable](#)  
*LFE on(true)/off, only for AAC and Dolby.*
- long [IAudioLevel](#)  
*Reserved for future.*
- unsigned short [uBitStreamID](#)  
*Bit Stream ID.*
- [enMFPB\\_Dolby\\_BitStreamMode](#) [enBitStreamMode](#)  
*Bit Stream Mode.*

- unsigned long [uDataRate](#)  
*Data Rate (bps)*
- boolean [bMainProductInfoExists](#)  
*Audio Production Info Exists.*
- long [lMainDialnorm](#)  
*Dialnorm (dB) times 10.*
- long [lMainMixLevel](#)  
*Mix Level (dB) times 10.*
- [enMFPB\\_Dolby\\_RoomType](#) [enMainRoomType](#)  
*Room Type.*
- boolean [bAuxProductInfoExists](#)  
*Audio Production Info Exists.*
- long [lAuxDialnorm](#)  
*Dialnorm (dB) times 10.*
- long [lAuxMixLevel](#)  
*Mix Level (dB) times 10.*
- [enMFPB\\_Dolby\\_RoomType](#) [enAuxRoomType](#)  
*Room Type.*
- [enMFPB\\_Dolby\\_SurroundMode](#) [enSurroundMode](#)  
*Dolby Surround Mode.*
- [enMFPB\\_Dolby\\_SurroundExMode](#) [enSurroundExMode](#)  
*Dolby Surround Ex mode.*
- long [lCentreMixLevel](#)  
*Center Mix Level dB times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-3, -4.5, -6].*
- long [lSurroundMixLevel](#)  
*Surround Mix Level dB times 10 (eg. value -60 will be -6 in the GUI). Discrete values [-3, -6, -99.9 (-Infinite)].*
- [enMFPB\\_ExtendedBSI\\_Mode](#) [enExtBSI\\_Mode](#)  
*Extended BSI Mode.*
- [enMFPB\\_Downmix\\_ToStereo](#) [enDownmix\\_ToStereo](#)  
*Preferred Stereo Downmix Mode.*
- long [lLtRtCentreMixLevel](#)  
*Lt/Rt Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [3, 1.5, 0, -1.5, -3, -4.5, -6, -99.9 (Infinite)].*
- long [lLtRtSurroundMixLevel](#)  
*Lt/Rt Surround Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-1.5, -3, -4.5, -6, -99.9 (Infinite)].*
- long [lLoRoCentreMixLevel](#)  
*Lo/Ro Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [3, 1.5, 0, -1.5, -3, -4.5, -6, -99.9 (Infinite)].*
- long [lLoRoSurroundMixLevel](#)  
*Lo/Ro Surround Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-1.5, -3, -4.5, -6, -99.9 (Infinite)].*
- boolean [bCopyright](#)  
*Copyright, yes (true)/no.*
- boolean [bOriginal](#)  
*Original, yes (true)/no.*

### 10.258.1 Detailed Description

Dolby meta data status for a specific component.

#### Version

Release 10.20

Definition at line 12670 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.259 DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t Struct Reference

Dolby audio processing settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_t:



#### Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)

*Identifies the elementary streams encoder where the setting should be added to.*

- [enMFPB\\_Dolby\\_BitStreamMode](#) [enBitStreamMode](#)  
*Bit stream mode, [CompleteMain by default].*
- [enMFPB\\_Dolby\\_DynamicRangeControl](#) [enDynamicRangeControlLine](#)  
*Dynamic range control (line), [FilmStandard by default].*
- [enMFPB\\_Dolby\\_DynamicRangeControl](#) [enDynamicRangeControlRf](#)  
*Dynamic range control (RF), [FilmStandard by default].*
- [boolean](#) [bBandwithLimitLowPassFilter](#)  
*Bandwith Limit Low Pass Filter, [Off (false) by default].*
- [boolean](#) [bDcHighPassFilter](#)  
*DC High Pass Filter, [Off (false) by default].*
- [enMFPB\\_Dolby\\_DigitalDeEmphasis](#) [enDigitalDeEmphasis](#)  
*Digital De-Emphasis, [None by default].*
- [enMFPB\\_Dolby\\_SurroundMode](#) [enSurroundMode](#)  
*Surround Mode, [NotIndicated by default].*
- [long](#) [lCentreMixLevel](#)  
*For Future functionality, Unit in [dB].*
- [long](#) [lSurroundMixLevel](#)  
*For Future functionality, Unit in [dB].*
- [boolean](#) [bLFE\\_LowPassFilter](#)  
*For Future functionality,.*
- [boolean](#) [bPhaseShift](#)  
*For Future functionality.*
- [boolean](#) [bChannelAttenuation](#)  
*For Future functionality.*
- [boolean](#) [bMainProductInfoExists](#)  
*Production Information Exists, [No (false) by default].*
- [enMFPB\\_Dolby\\_RoomType](#) [enRoomType](#)  
*Room Type, [SmallRoom by default].*
- [long](#) [lMainMixingLevel](#)  
*Mixing Level, Unit in [dB] - Range [80 <-> 111] - [105 by default].*
- [long](#) [lMainDialogNormalizationLevel](#)  
*Dialog Normalization Level, Unit in [dB] - Range [-31 <-> -1] - [-23 by default].*
- [boolean](#) [bAuxProductionInfoExists](#)  
*Aux Production Information Exists, [No (false) by default].*
- [enMFPB\\_Dolby\\_RoomType](#) [enAuxRoomType](#)  
*Aux Room Type, [SmallRoom by default].*
- [long](#) [lAuxMixingLevel](#)  
*Aux Mixing Level, Unit in [dB] - Range [80 <-> 111] - [105 by default].*
- [long](#) [lAuxDialogNormalizationLevel](#)  
*Aux Dialog Normalization Level, Unit in [dB] - Range [-31 <-> -1] - [-23 by default].*
- [enMFPB\\_Dolby\\_BitStreamMode](#) [enExtendedBSI\\_BitStreamMode](#)  
*For Future functionality,.*
- [long](#) [lLtRtCentreMixLevel](#)  
*For Future functionality, Unit in [dB].*
- [long](#) [lLtRtSurroundMixLevel](#)  
*For Future functionality, Unit in [dB].*



- long [ILoRoCentreMixLevel](#)  
*For Future functionality, Unit in [dB].*
- long [ILoRoSurroundMixLevel](#)  
*For Future functionality, Unit in [dB].*
- [enMFPB\\_Dolby\\_SurroundMode](#) [enSurroundExMode](#)  
*For Future functionality.*

#### 10.259.1 Detailed Description

Dolby audio processing settings.

##### Version

Release 10.0

Definition at line 12101 of file DCM.idl.

The documentation for this struct was generated from the following file:

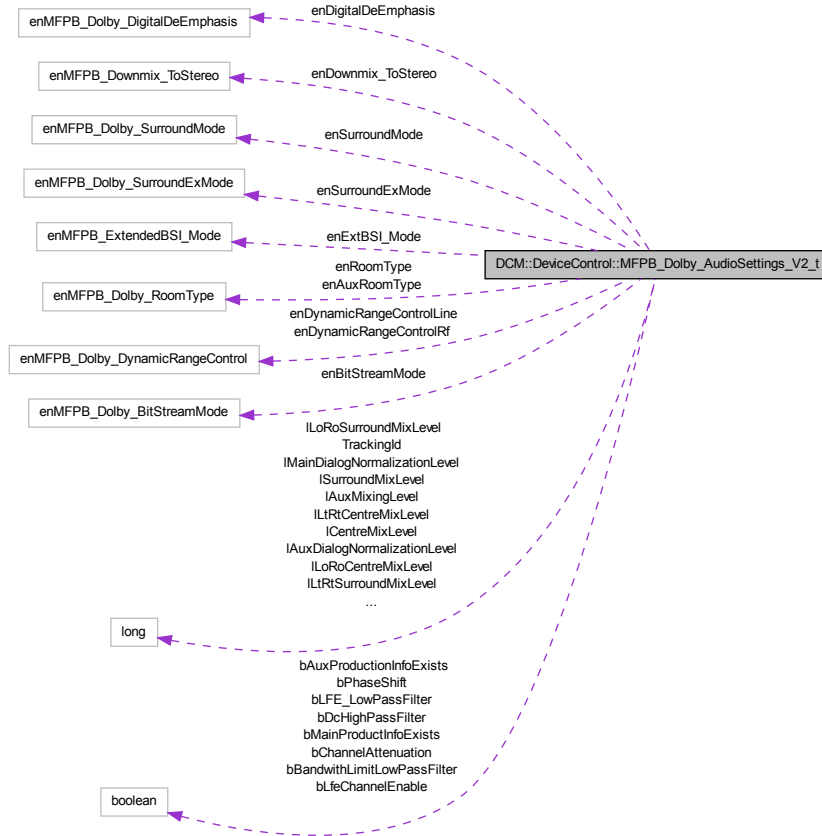
- [DCM.idl](#)

#### 10.260 DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t Struct Reference

Dolby audio processing settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_Dolby\_AudioSettings\_V2\_t:



## Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
*Identifies the elementary streams encoder where the setting should be added to.*
- [enMFPB\\_Dolby\\_BitStreamMode enBitStreamMode](#)  
*Bit stream mode, [CompleteMain by default].*
- [enMFPB\\_Dolby\\_DynamicRangeControl enDynamicRangeControlLine](#)  
*Dynamic range control (line), [FilmStandard by default].*
- [enMFPB\\_Dolby\\_DynamicRangeControl enDynamicRangeControlRf](#)  
*Dynamic range control (RF), [FilmStandard by default].*
- boolean [bBandwidthLimitLowPassFilter](#)  
*Bandwidth Limit Low Pass Filter, [Off (false) by default].*
- boolean [bDcHighPassFilter](#)  
*DC High Pass Filter, [Off (false) by default].*
- [enMFPB\\_Dolby\\_DigitalDeEmphasis enDigitalDeEmphasis](#)  
*Digital De-Emphasis, [None by default].*
- boolean [bLfeChannelEnable](#)

- LFE Channel Enable, [On (true) default, Off].*
- [enMFPB\\_Dolby\\_SurroundMode](#) [enSurroundMode](#)
  - Surround Mode, [NotIndicated by default].*
- long [lCentreMixLevel](#)
  - Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-3 (default), -4.5, -6]. Ignored if [enExtendedBSI\\_Mode](#) is XBSI mode.*
- long [lSurroundMixLevel](#)
  - Surround Mix Level (dB) times 10 (eg. value -60 will be -6 in the GUI). Discrete values [-3 (default), -6, -99.9 (Infinite)]. Ignored if [enExtendedBSI\\_Mode](#) is XBSI mode.*
- boolean [bLFE\\_LowPassFilter](#)
  - LFE Low Pass Filter, [On(true), Off default], Only used if LFE channel is enabled.*
- boolean [bPhaseShift](#)
  - Surround 90 deg Phase Shift, [On(true), Off default], Only used if LFE channel is enabled.*
- boolean [bChannelAttenuation](#)
  - Surround Channel Attenuation, [On(true), Off default], Only used if LFE channel is enabled.*
- boolean [bMainProductInfoExists](#)
  - Production Information Exists, [No (false) by default].*
- [enMFPB\\_Dolby\\_RoomType](#) [enRoomType](#)
  - Room Type, [SmallRoom by default].*
- long [lMainMixingLevel](#)
  - Mixing Level, Unit in [dB] - Range [80 <-> 111] - [105 by default].*
- long [lMainDialogNormalizationLevel](#)
- boolean [bAuxProductionInfoExists](#)
  - Aux Production Information Exists, [No (false) by default]. Only used for dual mono.*
- [enMFPB\\_Dolby\\_RoomType](#) [enAuxRoomType](#)
  - Aux Room Type, [SmallRoom by default]. Only used for dual mono.*
- long [lAuxMixingLevel](#)
  - Aux Mixing Level, Unit in [dB] - Range [80 <-> 111] - [105 by default]. Only used for dual mono.*
- long [lAuxDialogNormalizationLevel](#)
  - Aux Dialog Normalization Level, Unit in [dB] - Range [-31 <-> -1] - [-23 by default]. Only used for dual mono.*
- [enMFPB\\_ExtendedBSI\\_Mode](#) [enExtBSI\\_Mode](#)
  - Extended BSI Mode. [standard, XBSI default].*
- [enMFPB\\_Downmix\\_ToStereo](#) [enDownmix\\_ToStereo](#)
  - Preferred Stereo Downmix Mode [LTRT, LORO, NotIndicated default].*
- long [lLtRtCentreMixLevel](#)
  - Lt/Rt Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [3, 1.5, 0, -1.5, -3 (default), -4.5, -6, -99.9 (Infinite)].*
- long [lLtRtSurroundMixLevel](#)
  - Lt/Rt Surround Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-1.5, -3 (default), -4.5, -6, -99.9 (Infinite)].*
- long [lLoRoCentreMixLevel](#)
  - Lo/Ro Center Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [3, 1.5, 0, -1.5, -3 (default), -4.5, -6, -99.9 (Infinite)].*
- long [lLoRoSurroundMixLevel](#)
  - Lo/Ro Surround Mix Level (dB) times 10 (eg. value -45 will be -4.5 in the GUI). Discrete values [-1.5, -3 (default), -4.5, -6, -99.9 (Infinite)].*
- [enMFPB\\_Dolby\\_SurroundExMode](#) [enSurroundExMode](#)
  - Dolby Surround Ex mode. Disabled default.*

## 10.260.1 Detailed Description

Dolby audio processing settings.

## Version

Release 10.10

Definition at line 12249 of file DCM.idl.

The documentation for this struct was generated from the following file:

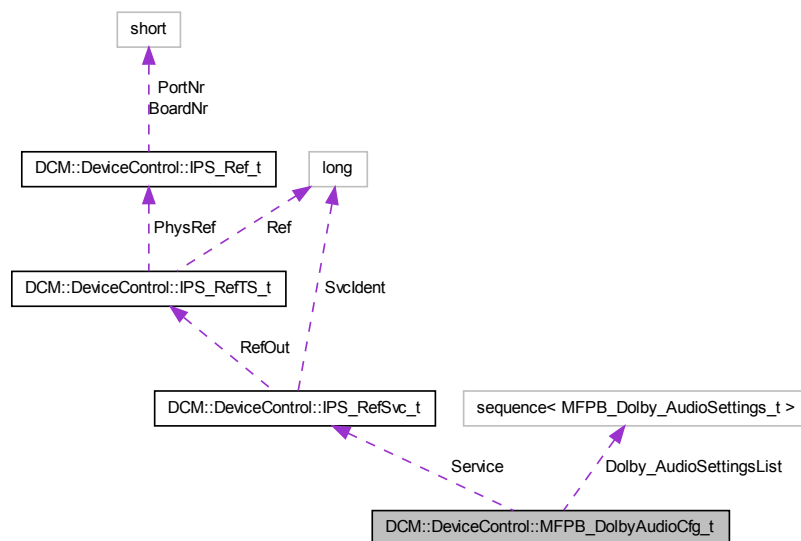
- [DCM.idl](#)

## 10.261 DCM::DeviceControl::MFPB\_DolbyAudioCfg\_t Struct Reference

Configuration settings for the Dolby audio settings of a service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_DolbyAudioCfg\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_Dolby\\_AudioSettingsList\\_t Dolby\\_AudioSettingsList](#)

*Dolby Audio settings per ES.*

## 10.261.1 Detailed Description

Configuration settings for the Dolby audio settings of a service.

Definition at line 12146 of file DCM.idl.

The documentation for this struct was generated from the following file:

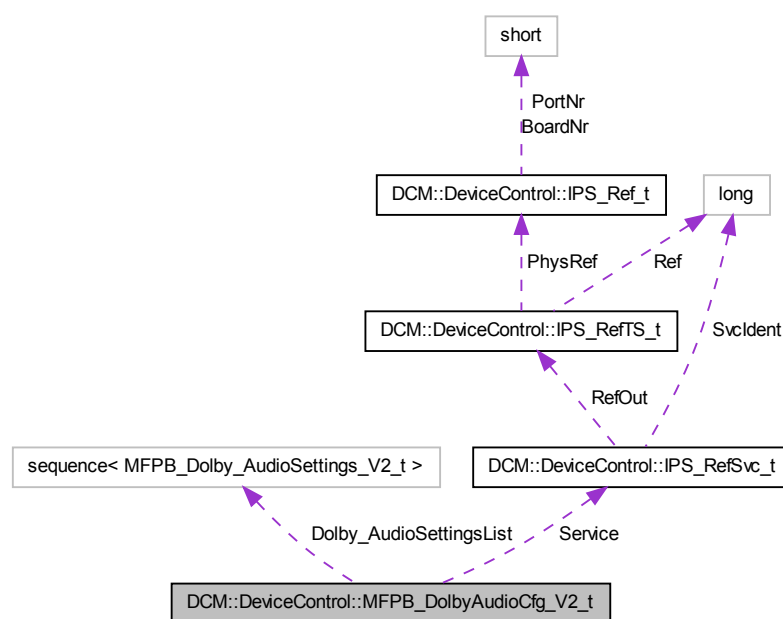
- [DCM.idl](#)

## 10.262 DCM::DeviceControl::MFPB\_DolbyAudioCfg\_V2\_t Struct Reference

Configuration settings for the Dolby audio settings of a service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_DolbyAudioCfg\_V2\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_Dolby\\_AudioSettingsList\\_V2\\_t Dolby\\_AudioSettingsList](#)

*Dolby Audio settings per ES.*

## 10.262.1 Detailed Description

Configuration settings for the Dolby audio settings of a service.

Definition at line 12317 of file DCM.idl.

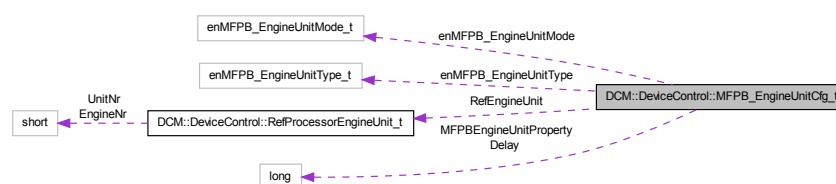
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.263 DCM::DeviceControl::MFPB\_EngineUnitCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_EngineUnitCfg\_t:



### Public Attributes

- [RefProcessorEngineUnit\\_t RefEngineUnit](#)  
*unique reference to an engine unit*
- [enMFPB\\_EngineUnitType\\_t enMFPB\\_EngineUnitType](#)  
*read only engine unit type*
- [enMFPB\\_EngineUnitMode\\_t enMFPB\\_EngineUnitMode](#)  
*processing unit mode*
- unsigned long [Delay](#)  
*For VideoAudio engines 3000 - 5000 ms (Total delay), in ms. 4000 by default. (For 10.0 and 10.10 with delays < 3000 are set to 3000) < For AudioOnly engine 500 - 1500 ms (Total delay), in ms. 1500 by default.*
- unsigned long [MFPBEngineUnitProperty](#)  
*Read only Bitmap.*

### 10.263.1 Detailed Description

Definition at line 10377 of file DCM.idl.

The documentation for this struct was generated from the following file:

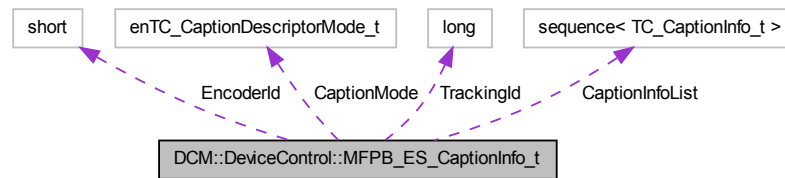
- [DCM.idl](#)

## 10.264 DCM::DeviceControl::MFPB\_ES\_CaptionInfo\_t Struct Reference

Configuration settings for the Caption Service Descriptor of an ES.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_ES\_CaptionInfo\_t:



### Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
*Identifies the elementary stream where the Caption Service Descriptor should be added to.*
- unsigned short [EncoderId](#)  
*Set to 0 (main service only)*
- [enTC\\_CaptionDescriptorMode\\_t CaptionMode](#)
- [TC\\_CaptionInfoList\\_t CaptionInfoList](#)  
*factory default: empty list. In "Add" mode, a non-empty list must be present.*

#### 10.264.1 Detailed Description

Configuration settings for the Caption Service Descriptor of an ES.

Definition at line 12613 of file DCM.idl.

The documentation for this struct was generated from the following file:

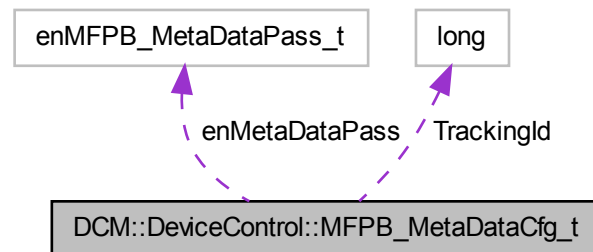
- [DCM.idl](#)

### 10.265 DCM::DeviceControl::MFPB\_MetaDataCfg\_t Struct Reference

audio meta data settings for a specific component.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_MetaDataCfg\_t:



#### Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)
- [enMFPB\\_MetaDataPass\\_t enMetaDataPass](#)

*Setting to determine how audio meta data is passed between decoder and encoder. Auto by default (Default manual for services set before 10.20)*

#### 10.265.1 Detailed Description

audio meta data settings for a specific component.

#### Version

Release 10.20

Definition at line 12763 of file DCM.idl.

The documentation for this struct was generated from the following file:

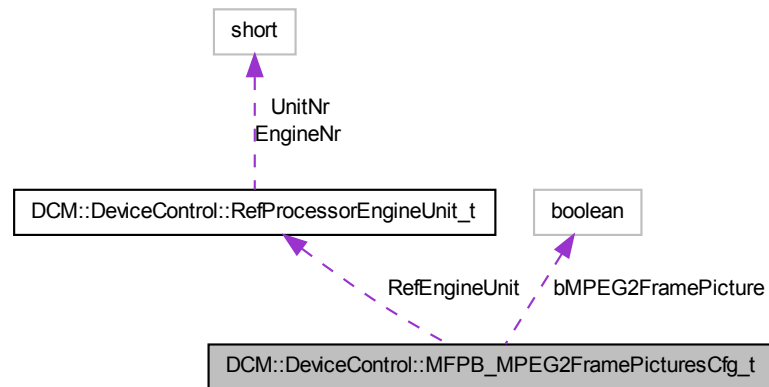
- [DCM.idl](#)

#### 10.266 DCM::DeviceControl::MFPB\_MPEG2FramePicturesCfg\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::MFPB\_MPEG2FramePicturesCfg\_t:



### Public Attributes

- [RefProcessorEngineUnit\\_t RefEngineUnit](#)  
The processor engine handling this service (engine nr == 0xFFFE can be used to delay services)
- boolean [bMPEG2FramePicture](#)  
Enable (true) or default disable (false) MPEG-2 Frame Pictures.

### 10.266.1 Detailed Description

Definition at line 10469 of file DCM.idl.

The documentation for this struct was generated from the following file:

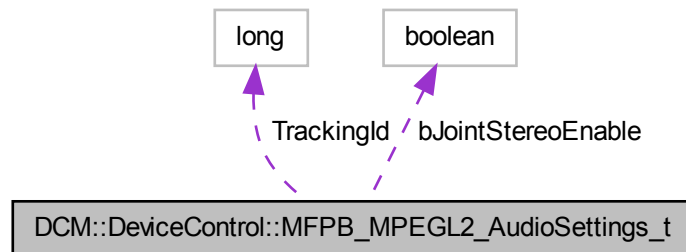
- [DCM.idl](#)

## 10.267 DCM::DeviceControl::MFPB\_MPEGL2\_AudioSettings\_t Struct Reference

MPEG1-L2 audio processing settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_MPEGL2\_AudioSettings\_t:



#### Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
*Identifies the elementary streams encoder where the setting should be added to.*
- boolean [bJointStereoEnable](#)  
*Joint Stereo [true (enable) default, false (disable)].*

#### 10.267.1 Detailed Description

MPEG1-L2 audio processing settings.

#### Version

Release 10.10

Definition at line 11862 of file DCM.idl.

The documentation for this struct was generated from the following file:

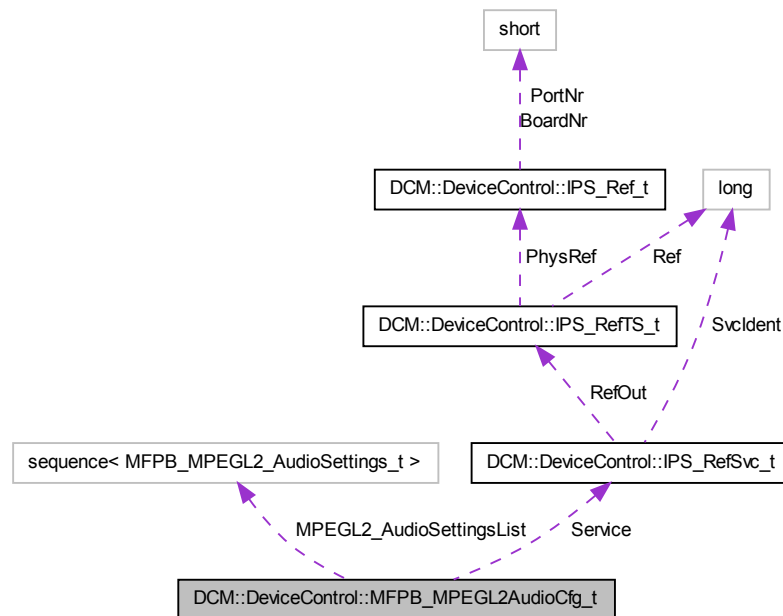
- [DCM.idl](#)

#### 10.268 DCM::DeviceControl::MFPB\_MPEGL2AudioCfg\_t Struct Reference

Configuration settings for the MPEG1-L2 audio settings of a service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_MPEGL2AudioCfg\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_MPEGL2\\_AudioSettingsList\\_t MPEGL2\\_AudioSettingsList](#)

*MPEG1-L2 Audio settings per ES.*

### 10.268.1 Detailed Description

Configuration settings for the MPEG1-L2 audio settings of a service.

Definition at line 11871 of file DCM.idl.

The documentation for this struct was generated from the following file:

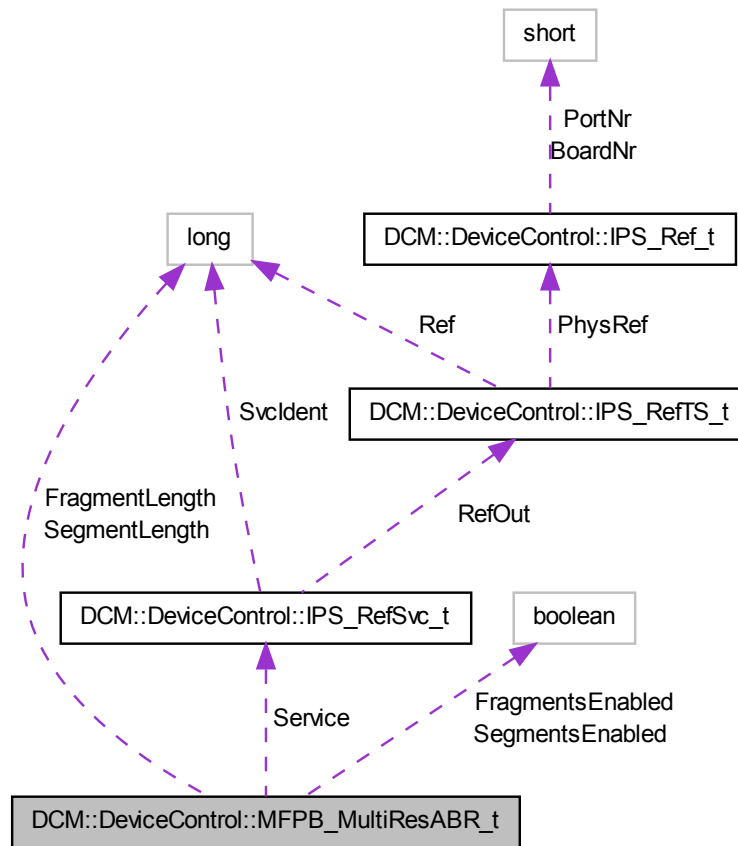
- [DCM.idl](#)

### 10.269 DCM::DeviceControl::MFPB\_MultiResABR\_t Struct Reference

Note: it is required that FragmentLength and SegmentLength are a multiple of one another.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_MultiResABR\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)  
*Main MFP service reference.*
- boolean [FragmentsEnabled](#)  
*Enable ABR syncing via Fragments.*
- boolean [SegmentsEnabled](#)  
*Enable ABR syncing via Segments.*
- unsigned long [FragmentLength](#)  
*Fragment length in seconds (range: 1 to 60s)*
- unsigned long [SegmentLength](#)  
*Segment length in seconds (range: 1 to 60)*

## 10.269.1 Detailed Description

Note: it is required that FragmentLength and SegmentLength are a multiple of one another.

Definition at line 11049 of file DCM.idl.

The documentation for this struct was generated from the following file:

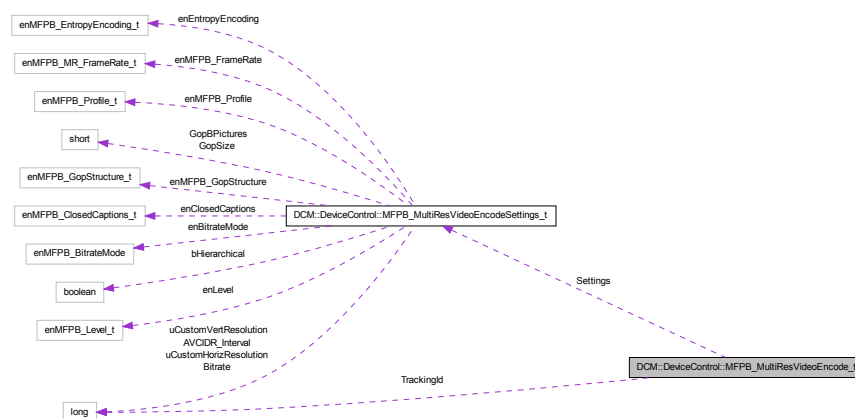
- [DCM.idl](#)

## 10.270 DCM::DeviceControl::MFPB\_MultiResVideoEncode\_t Struct Reference

MultiRes video encode settings together with field identifying the video component they're for.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_MultiResVideoEncode\_t:



## Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
*Must be equal to the tracking ID of a video decode.*
- [MFPB\\_MultiResVideoEncodeSettings\\_t Settings](#)

## 10.270.1 Detailed Description

MultiRes video encode settings together with field identifying the video component they're for.

## Version

Release 11.10

Definition at line 11369 of file DCM.idl.

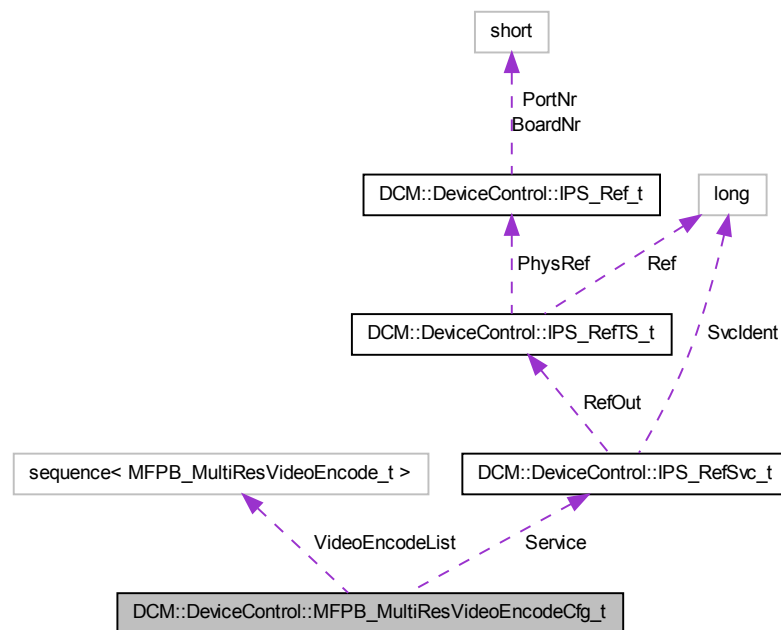
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.271 DCM::DeviceControl::MFPB\_MultiResVideoEncodeCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_MultiResVideoEncodeCfg\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t Service](#)  
*MultRes service reference.*
- [MFPB\\_MultiResVideoEncodeList\\_t VideoEncodeList](#)

## 10.271.1 Detailed Description

Definition at line 11376 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.272 DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t Struct Reference

MultiResolution Video encode settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_MultiResVideoEncodeSettings\_t:



## Public Attributes

- [enMFPB\\_BitrateMode](#) [enBitrateMode](#)  
*Choose between CBR and Capped VBR.*
- unsigned long [uCustomVertResolution](#)  
*Range: [1080-96] Multiple of 16 or one of (1080,720,600,576,544,480,360,320,288,272,240,224,180,160)*
- unsigned long [uCustomHorizResolution](#)  
*Range: [1920-96] Multiple of 16 or one of (1920,1440,1280,1080,960,800,720,640,544,528,480,400,352,320,240,208,176,160,128)*
- [enMFPB\\_MR\\_FrameRate\\_t](#) [enMFPB\\_FrameRate](#)
- [enMFPB\\_Profile\\_t](#) [enMFPB\\_Profile](#)
- [enMFPB\\_Level\\_t](#) [enLevel](#)
- [enMFPB\\_EntropyEncoding\\_t](#) [enEntropyEncoding](#)
- unsigned long [Bitrate](#)  
*(kbps) Range: 300 kbps-64 Mbps*
- [enMFPB\\_GopStructure\\_t](#) [enMFPB\\_GopStructure](#)  
*The mode of the GOP structure (Follow input and keep closed GOP not allowed)*
- boolean [bHierarchical](#)  
*AVC only. Hierarchical layered structure, default disabled.*
- unsigned short [GopBPictures](#)  
*Amount of B pictures. Range 0 to 5, default 2. 0 means IPP.*
- unsigned short [GopSize](#)  
*Number of I coded frames per gop. Range: 1..600, default 15, 1 means no B or P frames.*
- unsigned long [AVC IDR Interval](#)  
*Not used for the moment.*

- [enMFPB\\_ClosedCaptions\\_t enClosedCaptions](#)

*Disable, auto.*

### 10.272.1 Detailed Description

MultiResolution Video encode settings.

#### Version

Release 11.10

Definition at line 11345 of file DCM.idl.

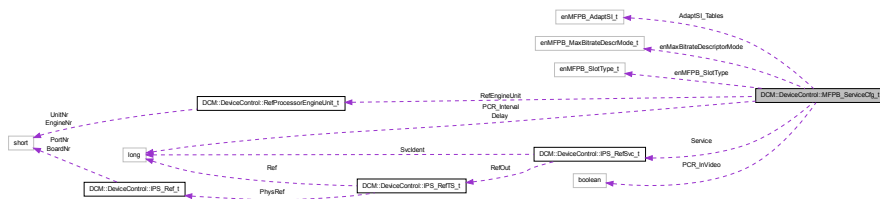
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.273 DCM::DeviceControl::MFPB\_ServiceCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_ServiceCfg\_t:



#### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [RefProcessorEngineUnit\\_t RefEngineUnit](#)  
*The processor engine handling this service (engine nr == 0xFFFE can be used to delay services)*
- [enMFPB\\_SlotType\\_t enMFPB\\_SlotType](#)  
*The slot type a service belongs to.*
- unsigned long [Delay](#)  
*For 500 - 5000 ms (Total delay), in ms. 4000 by default. The value is only used if engine nr == 0xFFFE, else the engine end to end delay is used.*
- unsigned long [PCRInterval](#)  
*10 - 100 ms, in ms. 37 by default.*
- boolean [PCRInVideo](#)  
*Reserved for future use: Should the PCR be part of a video packet or should it use an empty packet (on the same PID).*
- [enMFPB\\_AdaptSI\\_t AdaptSI\\_Tables](#)  
*Default Adapt SI using DVB : will automatically adapt PMT, EIT and SDT content where necessary.*
- [enMFPB\\_MaxBitrateDescrMode\\_t enMaxBitrateDescriptorMode](#)



## 10.273.1 Detailed Description

Definition at line 10419 of file DCM.idl.

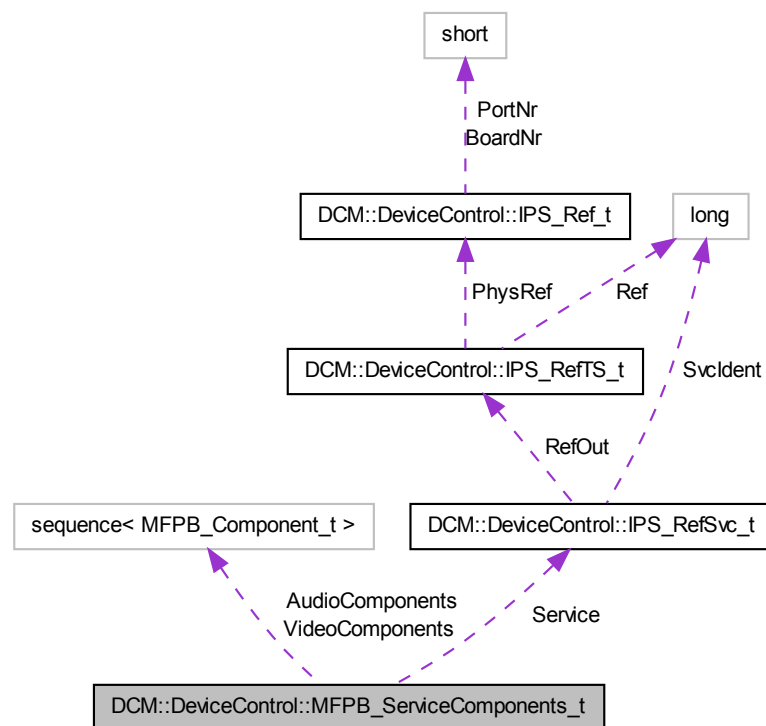
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.274 DCM::DeviceControl::MFPB\_ServiceComponents\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_ServiceComponents\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_ComponentList\\_t VideoComponents](#)  
The video pids which can be processed.
- [MFPB\\_ComponentList\\_t AudioComponents](#)  
The audio pids which can be processed.

## 10.274.1 Detailed Description

Definition at line 10564 of file DCM.idl.

The documentation for this struct was generated from the following file:

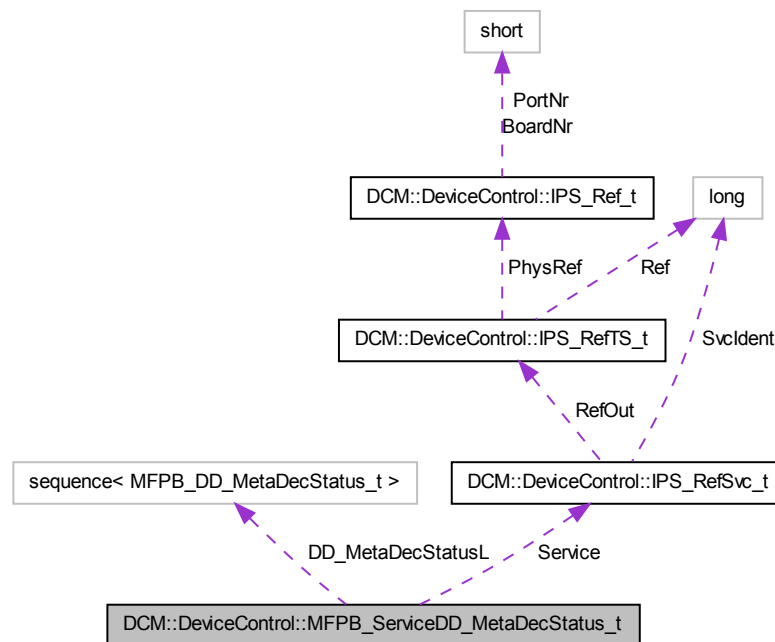
- [DCM.idl](#)

## 10.275 DCM::DeviceControl::MFPB\_ServiceDD\_MetaDecStatus\_t Struct Reference

Dolby meta data status on the decoder side for a specific service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_ServiceDD\_MetaDecStatus\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_DD\\_MetaDecStatusList\\_t DD\\_MetaDecStatusL](#)

## 10.275.1 Detailed Description

Dolby meta data status on the decoder side for a specific service.

**Version**

Release 10.20

Definition at line 12720 of file DCM.idl.

The documentation for this struct was generated from the following file:

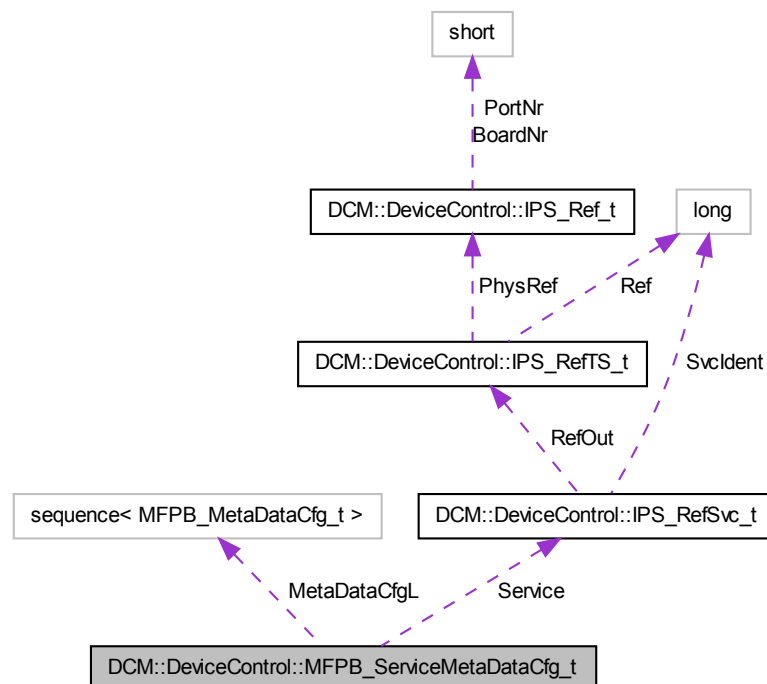
- [DCM.idl](#)

**10.276 DCM::DeviceControl::MFPB\_ServiceMetaDataCfg\_t Struct Reference**

audio meta data settings for a specific service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_ServiceMetaDataCfg\_t:

**Public Attributes**

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_MetaDataCfgList\\_t MetaDataCfgL](#)

**10.276.1 Detailed Description**

audio meta data settings for a specific service.

**Version**

Release 10.20

Definition at line 12775 of file DCM.idl.

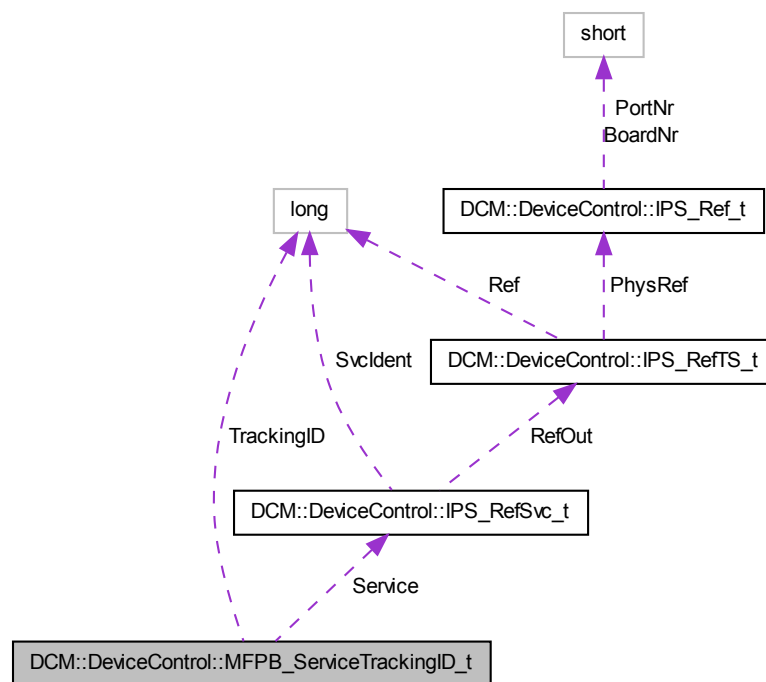
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

**10.277 DCM::DeviceControl::MFPB\_ServiceTrackingID\_t Struct Reference**

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_ServiceTrackingID\_t:

**Public Attributes**

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_TrackingID\\_t TrackingID](#)

**10.277.1 Detailed Description**

Definition at line 10550 of file DCM.idl.

The documentation for this struct was generated from the following file:

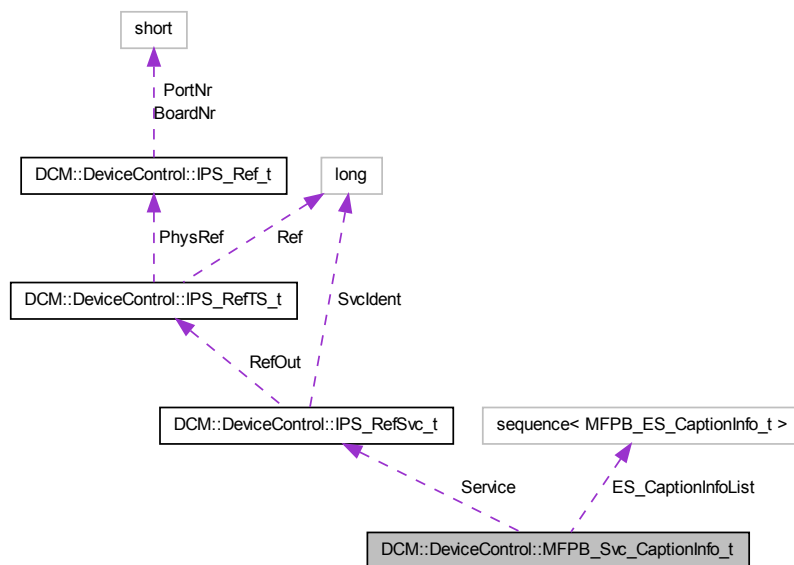
- [DCM.idl](#)

## 10.278 DCM::DeviceControl::MFPB\_Svc\_CaptionInfo\_t Struct Reference

Configuration settings for the Caption Service Descriptor(s) of a service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_Svc\_CaptionInfo\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_ES\\_CaptionInfoList\\_t ES\\_CaptionInfoList](#)

#### 10.278.1 Detailed Description

Configuration settings for the Caption Service Descriptor(s) of a service.

Definition at line 12624 of file DCM.idl.

The documentation for this struct was generated from the following file:

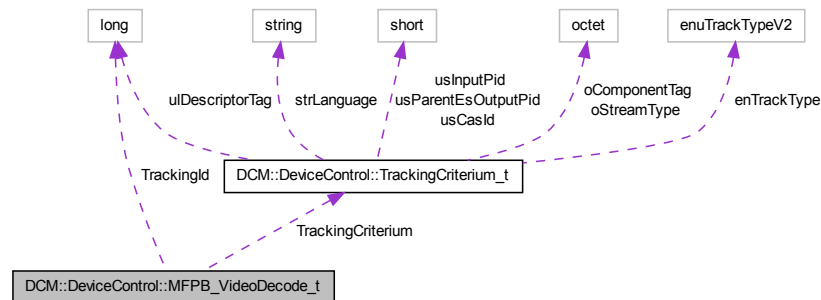
- [DCM.idl](#)

## 10.279 DCM::DeviceControl::MFPB\_VideoDecode\_t Struct Reference

Video decode settings together with fields identifying the video component they're for.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_VideoDecode\_t:



## Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
*0 when creating a new entry*
- [TrackingCriterium\\_t TrackingCriterium](#)

## 10.279.1 Detailed Description

Video decode settings together with fields identifying the video component they're for.

## Version

Release 10.0

Definition at line 10678 of file DCM.idl.

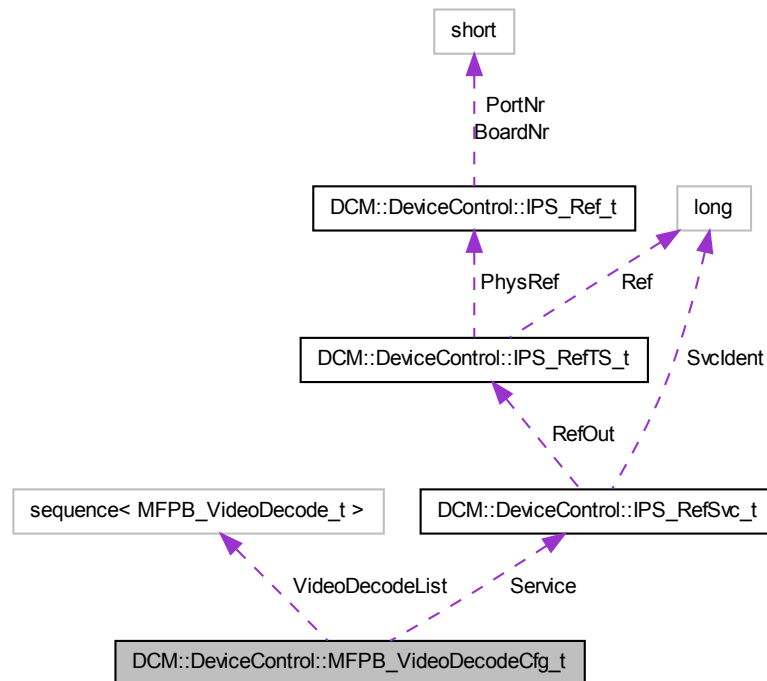
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.280 DCM::DeviceControl::MFPB\_VideoDecodeCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_VideoDecodeCfg\_t:



#### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_VideoDecodeList\\_t VideoDecodeList](#)

#### 10.280.1 Detailed Description

Definition at line 10685 of file DCM.idl.

The documentation for this struct was generated from the following file:

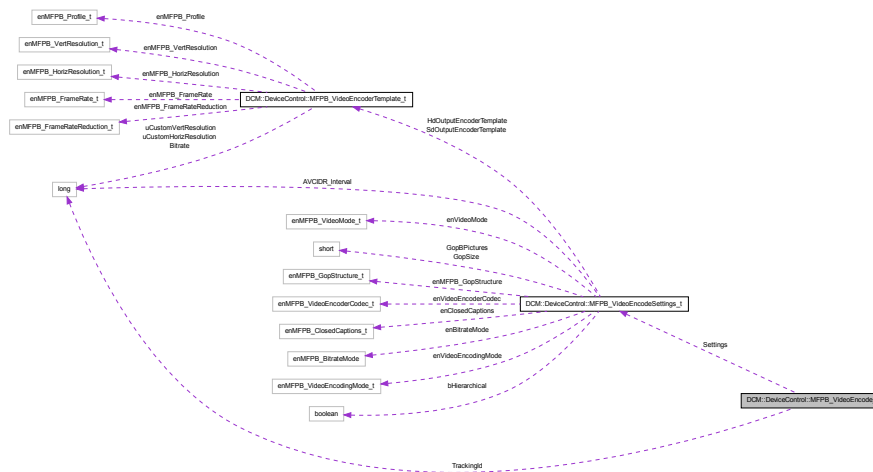
- [DCM.idl](#)

### 10.281 DCM::DeviceControl::MFPB\_VideoEncode\_t Struct Reference

Video encode settings together with field identifying the video component they're for.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_VideoEncode\_t:



## Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
*Must be equal to the tracking ID of a video decode.*
- [MFPB\\_VideoEncodeSettings\\_t Settings](#)

### 10.281.1 Detailed Description

Video encode settings together with field identifying the video component they're for.

## Version

Release 10.0

Definition at line 11034 of file DCM.idl.

The documentation for this struct was generated from the following file:

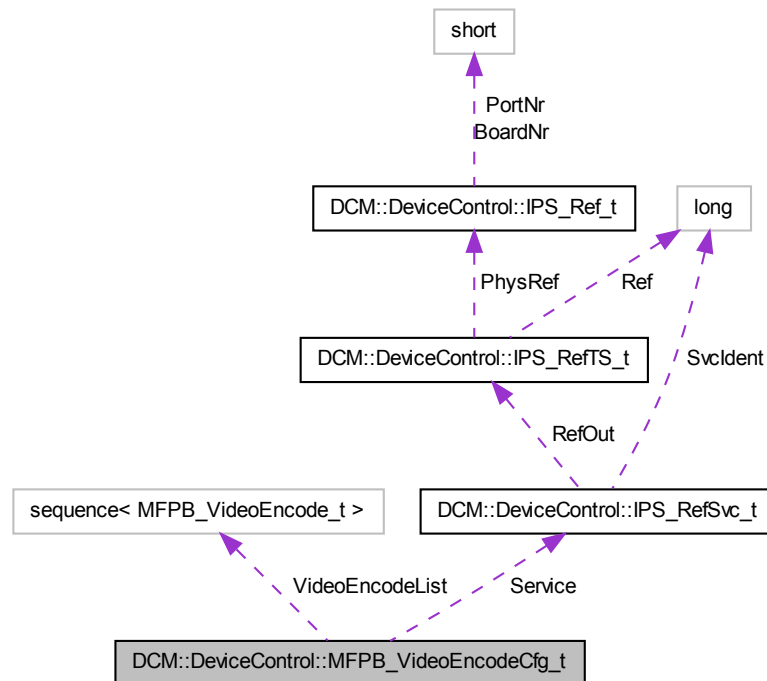
- [DCM.idl](#)

## 10.282 DCM::DeviceControl::MFPB\_VideoEncodeCfg\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::MFPB\_VideoEncodeCfg\_t:



#### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_VideoEncodeList\\_t VideoEncodeList](#)

#### 10.282.1 Detailed Description

Definition at line 11041 of file DCM.idl.

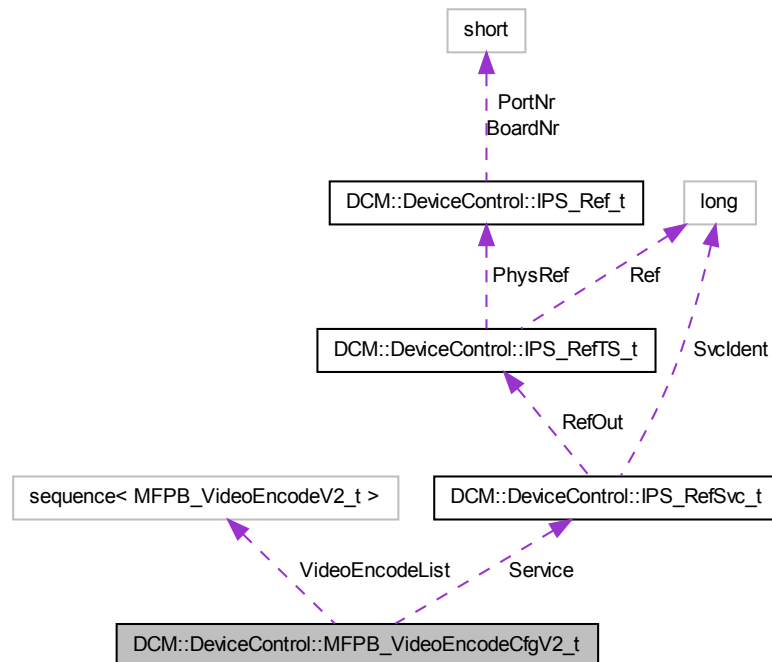
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.283 DCM::DeviceControl::MFPB\_VideoEncodeCfgV2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_VideoEncodeCfgV2\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_VideoEncodeV2List\\_t VideoEncodeList](#)

### 10.283.1 Detailed Description

Definition at line 11216 of file DCM.idl.

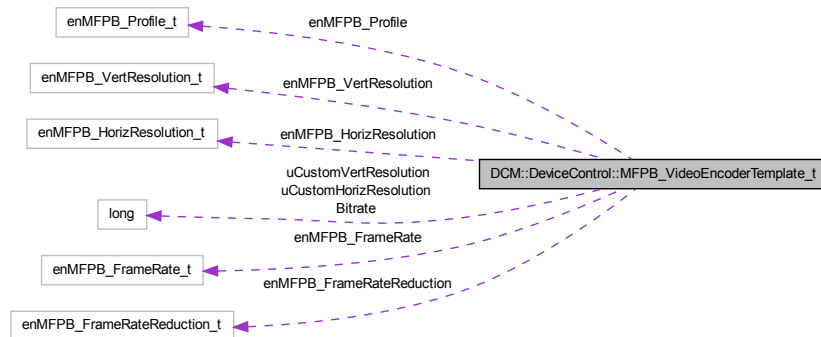
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.284 DCM::DeviceControl::MFPB\_VideoEncoderTemplate\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_VideoEncoderTemplate\_t:



## Public Attributes

- [enMFPB\\_VertResolution\\_t enMFPB\\_VertResolution](#)  
*Vertical Resolution.*
- [unsigned long uCustomVertResolution](#)  
*Future usage: Custom vertical resolution only used if enMFPB\_VertResolution is.*
- [enMFPB\\_HorizResolution\\_t enMFPB\\_HorizResolution](#)  
*Horizontal Resolution.*
- [unsigned long uCustomHorizResolution](#)  
*Future usage: Custom horizontal resolution only used if enMFPB\_HorizResolution is.*
- [enMFPB\\_FrameRate\\_t enMFPB\\_FrameRate](#)  
*Frame rate.*
- [enMFPB\\_FrameRateReduction\\_t enMFPB\\_FrameRateReduction](#)  
*Frame rate reduction, Reserved for future use.*
- [enMFPB\\_Profile\\_t enMFPB\\_Profile](#)  
*Profile: see enMFPB\_Profile\_t for Mpeg2/Avc, transrate/transcode, SD/HD defaults and constraints.*
- [unsigned long Bitrate](#)  
*Bitrate in bps The meaning of the bitrate depends on the enBitrateMode (.*

### 10.284.1 Detailed Description

Definition at line 10937 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.285 DCM::DeviceControl::MFPB\_VideoEncodeSettings\_t Struct Reference

Video encode settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_VideoEncodeSettings\_t:



## Public Attributes

- [enMFPB\\_VideoEncodingMode\\_t](#) [enVideoEncodingMode](#)  
*Processing mode TR/TC.*
- [enMFPB\\_VideoEncoderCodec\\_t](#) [enVideoEncoderCodec](#)  
*Indicate whether Mpeg2/AVC is used.*
- [enMFPB\\_VideoMode\\_t](#) [enVideoMode](#)  
*Indicate whether this is SD/HD.*
- [enMFPB\\_BitrateMode](#) [enBitrateMode](#)  
*Choose between CBR, Capped VBR and Statmux.*
- [MFPB\\_VideoEncoderTemplate\\_t](#) [SdOutputEncoderTemplate](#)  
*Template for SD output.*
- [MFPB\\_VideoEncoderTemplate\\_t](#) [HdOutputEncoderTemplate](#)  
*Template for HD output. Not used in SD mode.*
- [enMFPB\\_GopStructure\\_t](#) [enMFPB\\_GopStructure](#)  
*The mode of the GOP structure(ignored for transrating, KeepClosed is used)*
- [boolean](#) [bHierarchical](#)  
*AVC only. Hierarchical layered structure, default disabled (ignored for transrating + see GopStructure constraints)*
- [unsigned short](#) [GopBPictures](#)  
*Amount of B pictures. Range 0 to 5, default 2. 0 means IPP. (ignored for transrating + see GopStructure constraints)*
- [unsigned short](#) [GopSize](#)  
*Number of I coded frames per gop. Range: 1..600, default 15, 1 means no B or P frames (ignored for transrating + GopStructure constraints)*
- [unsigned long](#) [AVCIDR\\_Interval](#)  
*AVCIDR\_Interval This field has a 2 fold meaning 1) AVC only: Insert nr of IDR frames per gop.*
- [enMFPB\\_ClosedCaptions\\_t](#) [enClosedCaptions](#)  
*Disable, auto, transcode, test.*

## 10.285.1 Detailed Description

Video encode settings.

## Version

Release 10.0

Definition at line 11004 of file DCM.idl.

The documentation for this struct was generated from the following file:

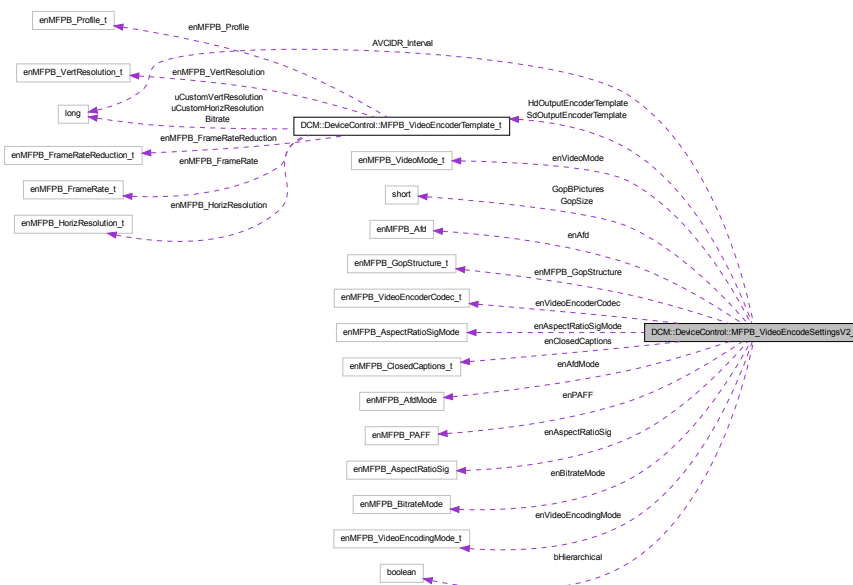
- [DCM.idl](#)

## 10.286 DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t Struct Reference

Video encode settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_VideoEncodeSettingsV2\_t:



## Public Attributes

- [enMFPB\\_VideoEncodingMode\\_t](#) [enVideoEncodingMode](#)  
*Processing mode TR/TC.*
- [enMFPB\\_VideoEncoderCodec\\_t](#) [enVideoEncoderCodec](#)  
*Indicate whether Mpeg2/AVC is used.*
- [enMFPB\\_VideoMode\\_t](#) [enVideoMode](#)  
*Indicate whether this is SD/HD.*
- [enMFPB\\_BitrateMode](#) [enBitrateMode](#)

*Choose between CBR, Capped VBR and Statmux.*

- [MFPB\\_VideoEncoderTemplate\\_t SdOutputEncoderTemplate](#)

*Template for SD output.*

- [MFPB\\_VideoEncoderTemplate\\_t HdOutputEncoderTemplate](#)

*Template for HD output. Not used in SD mode.*

- [enMFPB\\_GopStructure\\_t enMFPB\\_GopStructure](#)

*The mode of the GOP structure(ignored for transrating, KeepClosed is used)*

- boolean [bHierarchical](#)

*AVC only. Hierarchical layered structure, default disabled (ignored for transrating + see GopStructure constraints)*

- unsigned short [GopBPictures](#)

*Amount of B pictures. Range 0 to 5, default 2. 0 means IPP. (ignored for transrating + see GopStructure constraints)*

- unsigned short [GopSize](#)

*Number of I coded frames per gop. Range: 1..600, default 15, 1 means no B or P frames (ignored for transrating + GopStructure constraints)*

- unsigned long [AVCIDR\\_Interval](#)

*AVCIDR\_Interval This field has a 2 fold meaning 1) AVC only: Insert nr of IDR frames per gop.*

- [enMFPB\\_ClosedCaptions\\_t enClosedCaptions](#)

*Disable, auto, transcode, test.*

- [enMFPB\\_AspectRatioSigMode enAspectRatioSigMode](#)

*Aspect Ratio Signaling mode. Auto (fixed for HD->HD, SD->SD), manual (fixed for HD->SD)*

- [enMFPB\\_AspectRatioSig enAspectRatioSig](#)

*Aspect Ratio Signaling value. The value set in manual mode or fallback value for auto enAspectRatioSig-Mode. (4:3 SD default, 16:9 HD default)*

- [enMFPB\\_AfdMode enAfdMode](#)

*Active format descriptor mode, only used for HD->SD downconversion. Manual | auto (Default)*

- [enMFPB\\_Afd enAfd](#)

*Active format descriptor value. The value set in manual mode or fallback value for auto enAfdMode. (enM-FPB\_Afd\_16\_9\_sp\_4\_3 by default)*

- [enMFPB\\_PAFF enPAFF](#)

*Reserved for future use, Picture Adaptive Frame Field Encoding MBAFF (default) | PAFF.*

### 10.286.1 Detailed Description

Video encode settings.

#### Version

Release 11.10

Definition at line 11174 of file DCM.idl.

The documentation for this struct was generated from the following file:

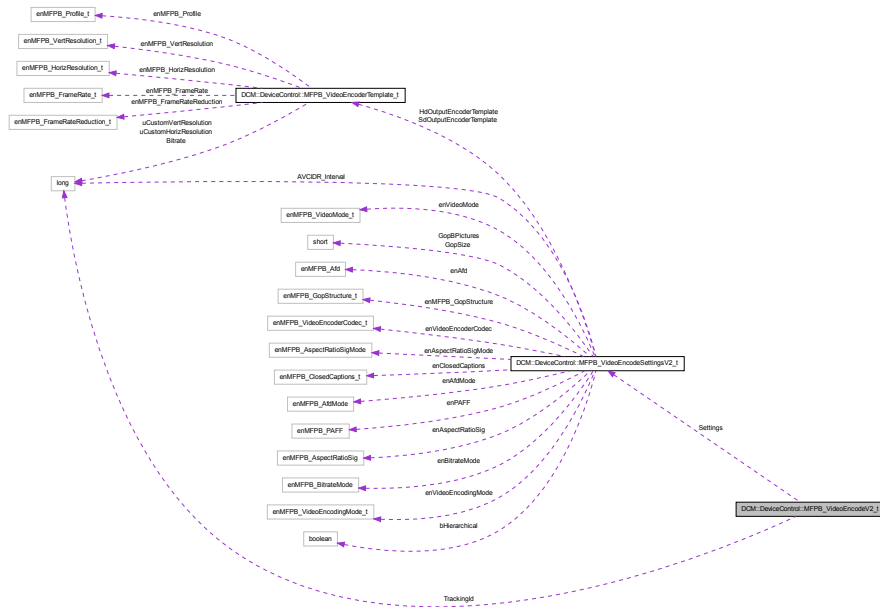
- [DCM.idl](#)

## 10.287 DCM::DeviceControl::MFPB\_VideoEncodeV2\_t Struct Reference

Video encode settings together with field identifying the video component they're for.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_VideoEncodeV2\_t:



### Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)  
*Must be equal to the tracking ID of a video decode.*
- [MFPB\\_VideoEncodeSettingsV2\\_t Settings](#)

### 10.287.1 Detailed Description

Video encode settings together with field identifying the video component they're for.

#### Version

Release 11.10

Definition at line 11209 of file DCM.idl.

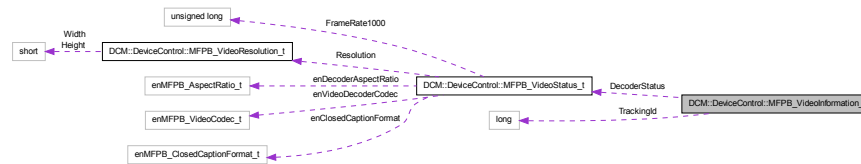
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.288 DCM::DeviceControl::MFPB\_VideoInformation\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_VideoInformation\_t:



## Public Attributes

- [MFPB\\_TrackingID\\_t TrackingId](#)
- [MFPB\\_VideoStatus\\_t DecoderStatus](#)

## 10.288.1 Detailed Description

Definition at line 10644 of file DCM.idl.

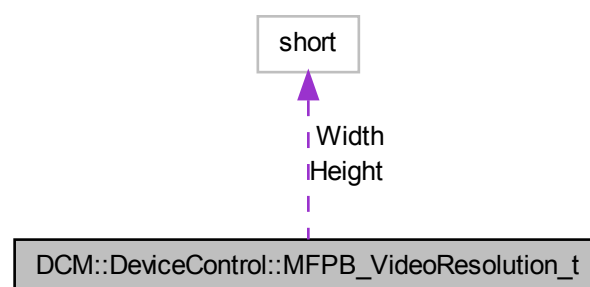
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.289 DCM::DeviceControl::MFPB\_VideoResolution\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_VideoResolution\_t:



## Public Attributes

- unsigned short [Height](#)
- unsigned short [Width](#)



## 10.289.1 Detailed Description

Definition at line 10600 of file DCM.idl.

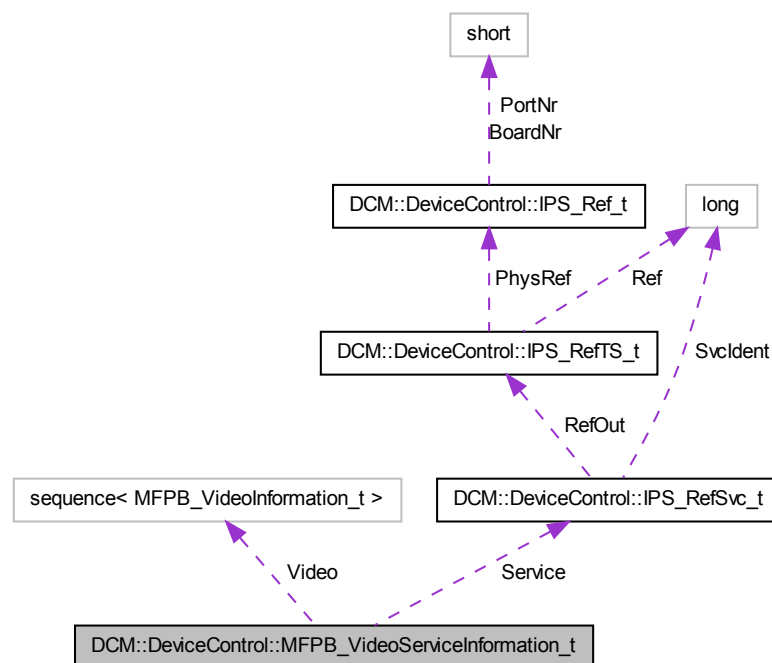
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.290 DCM::DeviceControl::MFPB\_VideoServiceInformation\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_VideoServiceInformation\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [MFPB\\_VideoInformationList\\_t Video](#)

## 10.290.1 Detailed Description

Definition at line 10651 of file DCM.idl.

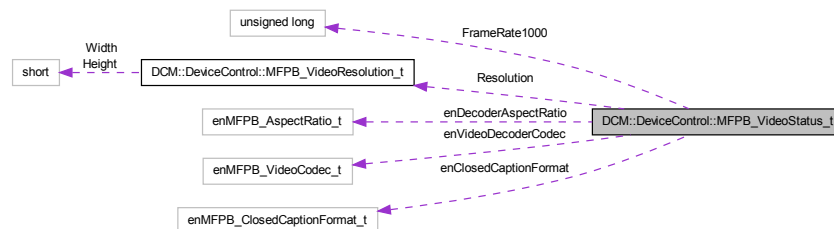
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.291 DCM::DeviceControl::MFPB\_VideoStatus\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MFPB\_VideoStatus\_t:



## Public Attributes

- [enMFPB\\_ClosedCaptionFormat\\_t](#) [enClosedCaptionFormat](#)
- [MFPB\\_VideoResolution\\_t](#) [Resolution](#)  
*Output resolution.*
- unsigned long [FrameRate1000](#)  
*Framerate for 1000 seconds (fps\*1000 eg, 29.97 Hz becomes 29970)*
- [enMFPB\\_AspectRatio\\_t](#) [enDecoderAspectRatio](#)  
*Aspect Ratio of the incoming video stream.*
- [enMFPB\\_VideoCodec\\_t](#) [enVideoDecoderCodec](#)  
*Video codec of the incoming video stream.*

## 10.291.1 Detailed Description

Definition at line 10634 of file DCM.idl.

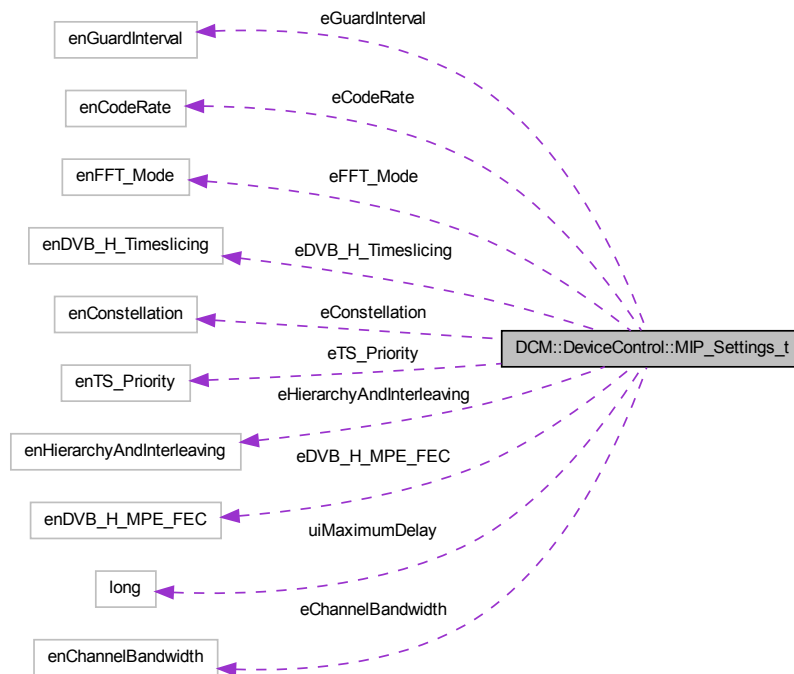
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.292 DCM::DeviceControl::MIP\_Settings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MIP\_Settings\_t:



## Public Attributes

- unsigned long [uiMaximumDelay](#)  
*value in 100ns, range 0..1s*
- [enConstellation](#) [eConstellation](#)
- [enHierarchyAndInterleaving](#) [eHierarchyAndInterleaving](#)
- [enCodeRate](#) [eCodeRate](#)
- [enGuardInterval](#) [eGuardInterval](#)
- [enFFT\\_Mode](#) [eFFT\\_Mode](#)
- [enChannelBandwidth](#) [eChannelBandwidth](#)
- [enTS\\_Priority](#) [eTS\\_Priority](#)
- [enDVB\\_H\\_Timeslicing](#) [eDVB\\_H\\_Timeslicing](#)
- [enDVB\\_H\\_MPE\\_FEC](#) [eDVB\\_H\\_MPE\\_FEC](#)

### 10.292.1 Detailed Description

Definition at line 29168 of file DCM.idl.

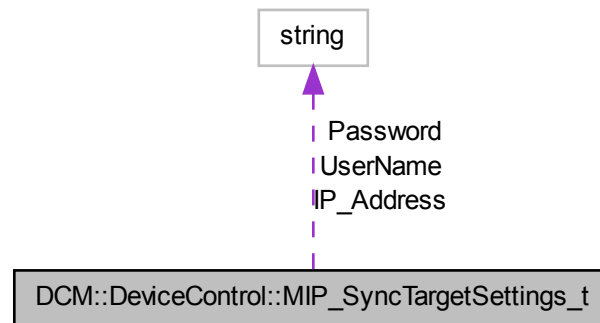
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.293 DCM::DeviceControl::MIP\_SyncTargetSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MIP\_SyncTargetSettings\_t:



### Public Attributes

- string [IP\\_Address](#)
- string [UserName](#)
- string [Password](#)

### 10.293.1 Detailed Description

Definition at line 21883 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

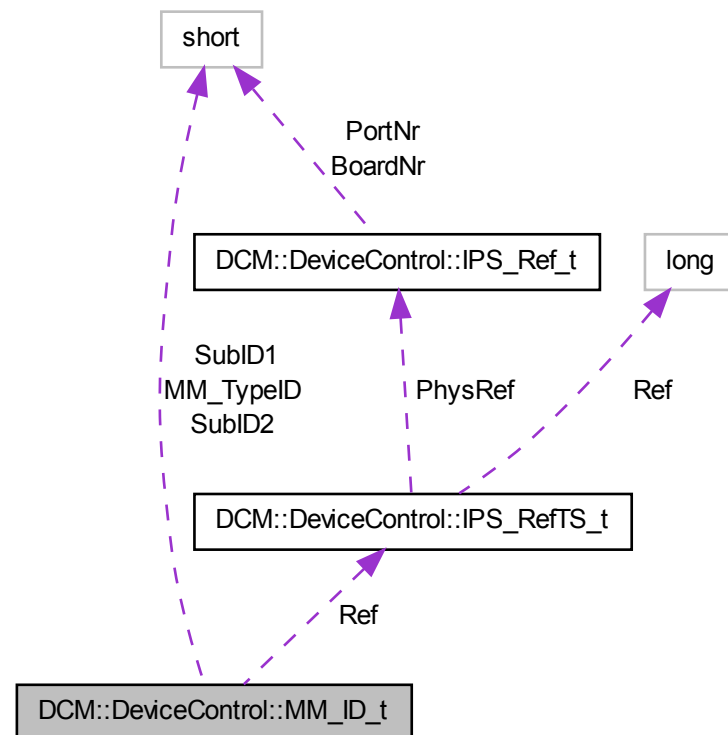
- [DCM.idl](#)

## 10.294 DCM::DeviceControl::MM\_ID\_t Struct Reference

Alarm reference (M&M, 1:1 device backup).

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MM\_ID\_t:



### Public Attributes

- unsigned short [MM\\_TypeID](#)  
*input/output + type of message or measurement*
- [IPS\\_RefTS\\_t](#) [Ref](#)  
*board + port + TSIndex*
- unsigned short [SubID1](#)
- unsigned short [SubID2](#)

### 10.294.1 Detailed Description

Alarm reference (M&M, 1:1 device backup).

Definition at line 431 of file DCM.idl.

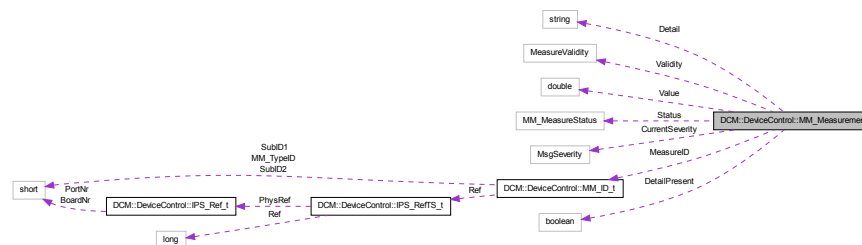
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.295 DCM::DeviceControl::MM\_Measurement Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MM\_Measurement:



## Public Attributes

- [MM\\_ID\\_t MeasureID](#)
- [double Value](#)
- [MeasureValidity Validity](#)
- [MM\\_MeasureStatus Status](#)
- [boolean DetailPresent](#)
- [string Detail](#)
- [MsgSeverity CurrentSeverity](#)

## 10.295.1 Detailed Description

Definition at line 22574 of file DCM.idl.

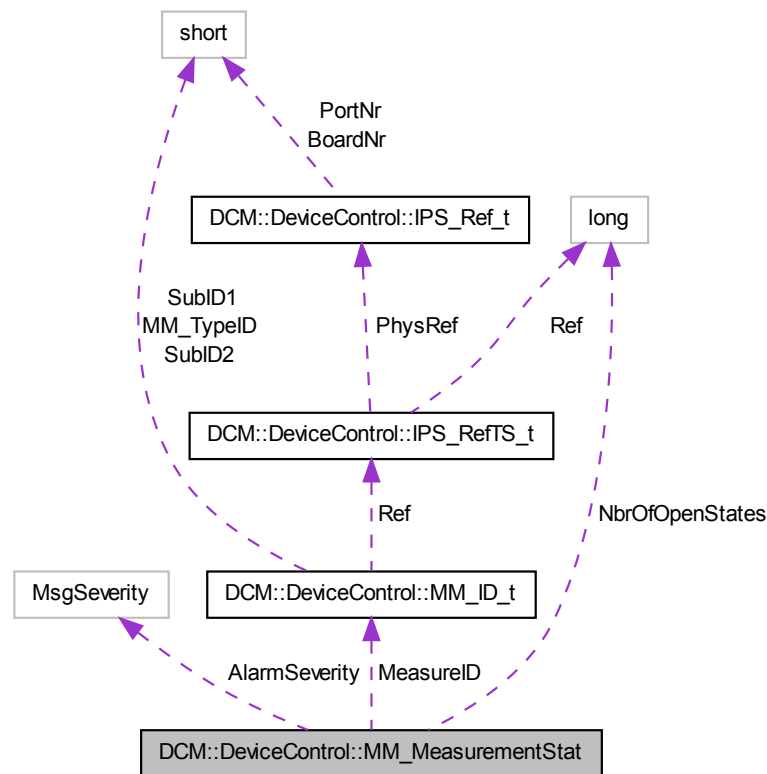
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.296 DCM::DeviceControl::MM\_MeasurementStat Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MM\_MeasurementStat:



#### Public Attributes

- [MM\\_ID\\_t MeasureID](#)
- unsigned long [NbrOfOpenStates](#)
- [MsgSeverity AlarmSeverity](#)

#### 10.296.1 Detailed Description

Definition at line 22629 of file `DCM.idl`.

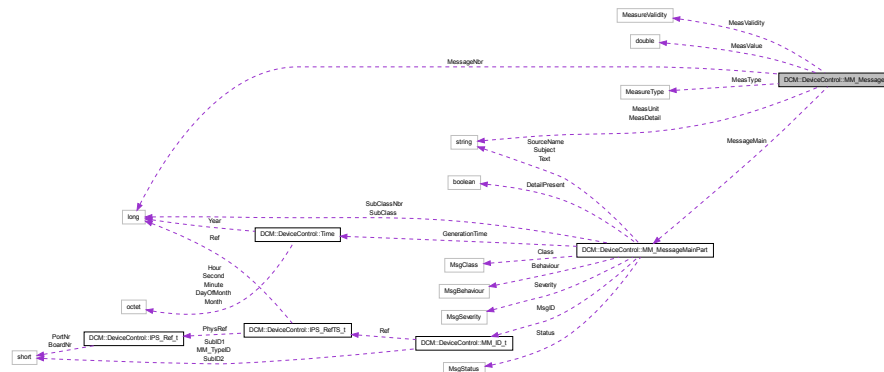
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.297 DCM::DeviceControl::MM\_Message Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MM\_Message:



## Public Attributes

- MM\_MessageMainPart MessageMain
- string MeasDetail
- double MeasValue
- string MeasUnit
- MeasureType MeasureType
- MeasureValidity MeasureValidity
- unsigned long MessageNbr

### 10.297.1 Detailed Description

Definition at line 22326 of file DCM.idl.

The documentation for this struct was generated from the following file:

- DCM.idl

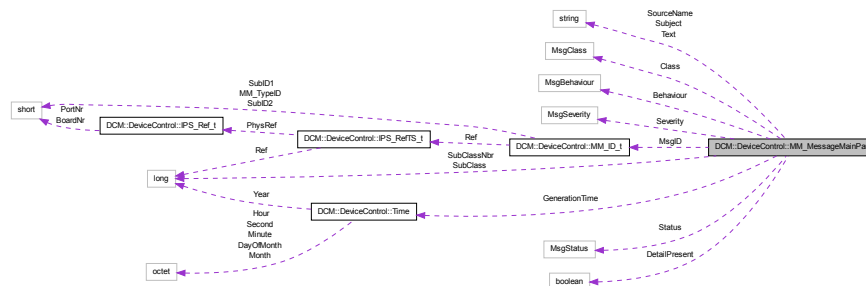
## 10.298 DCM::DeviceControl::MM\_MessageMainPart Struct Reference

Structure to pass Messages from the device to whatever client.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::MM\_MessageMainPart:



## Public Attributes

- [MM\\_ID\\_t](#) [MsgID](#)  
*unique ID identifying the sort of message*
- string [SourceName](#)  
*device name*
- string [Text](#)  
*text of the message*
- string [Subject](#)
- [Time](#) [GenerationTime](#)  
*generation time of the message - see [Time](#) above*
- [MsgBehaviour](#) [Behaviour](#)
- [MsgClass](#) [Class](#)  
*communication, processing, ...*
- unsigned long [SubClass](#)
- unsigned long [SubClassNbr](#)  
*sub number*
- boolean [DetailPresent](#)
- [MsgStatus](#) [Status](#)  
*begin, end ...*
- [MsgSeverity](#) [Severity](#)

### 10.298.1 Detailed Description

Structure to pass Messages from the device to whatever client.

Definition at line 22308 of file DCM.idl.

The documentation for this struct was generated from the following file:

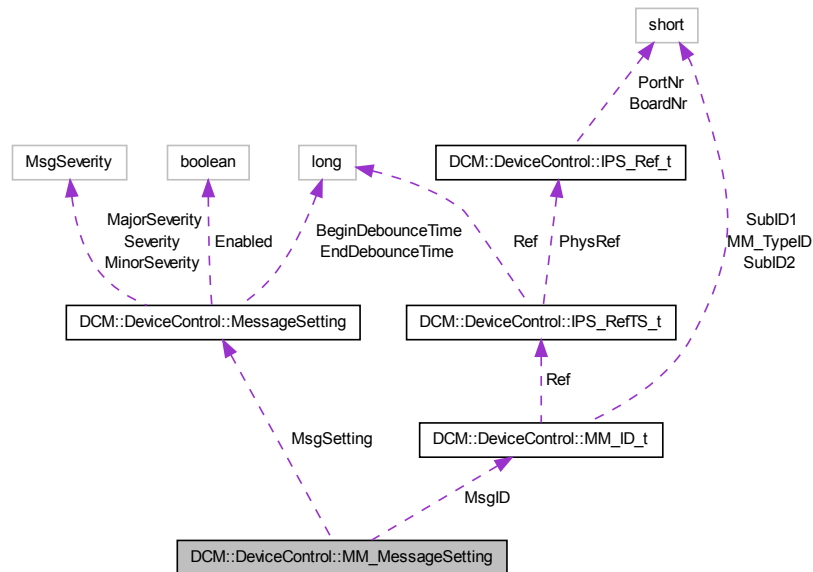
- [DCM.idl](#)

## 10.299 DCM::DeviceControl::MM\_MessageSetting Struct Reference

Measurement message settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MM\_MessageSetting:



### Public Attributes

- [MM\\_ID\\_t](#) MsgID
- [MessageSetting](#) MsgSetting

### 10.299.1 Detailed Description

Measurement message settings.

Definition at line 22464 of file DCM.idl.

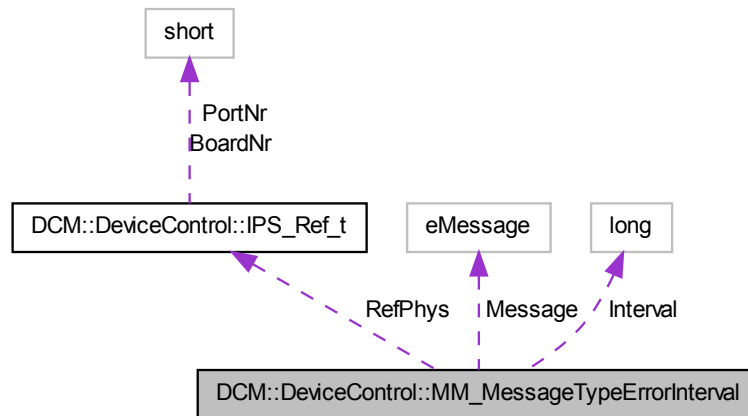
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.300 DCM::DeviceControl::MM\_MessageTypeErrorInterval Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MM\_MessageTypeErrorInterval:



#### Public Attributes

- [IPS\\_Ref\\_t](#) [RefPhys](#)  
*mask port, port info not relevant*
- [eMessage](#) [Message](#)  
*message type to set interval for*
- long [Interval](#)  
*Interval in ms. Value must be between 0-46600 (incl boundaries). NB: MAX\_PID\_ERROR\_TIMEOUT = 45000.*

#### 10.300.1 Detailed Description

Definition at line 22845 of file DCM.idl.

The documentation for this struct was generated from the following file:

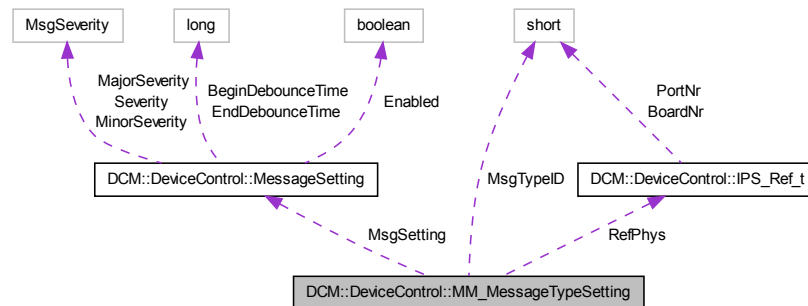
- [DCM.idl](#)

### 10.301 DCM::DeviceControl::MM\_MessageTypeSetting Struct Reference

Message type settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MM\_MessageTypeSetting:



### Public Attributes

- [IPS\\_Ref\\_t RefPhys](#)  
*mask port, port info not relevant*
- unsigned short [MsgTypeID](#)
- [MessageSetting MsgSetting](#)

#### 10.301.1 Detailed Description

Message type settings.

Definition at line 22456 of file DCM.idl.

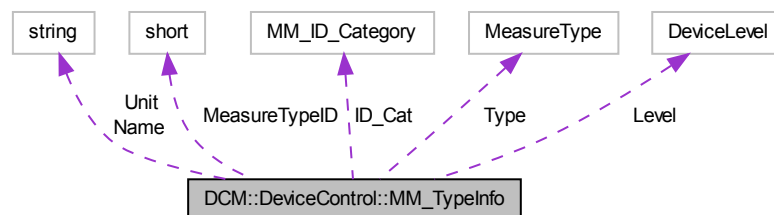
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.302 DCM::DeviceControl::MM\_TypeInfo Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MM\_TypeInfo:



**Public Attributes**

- unsigned short [MeasureTypeID](#)
- string [Name](#)
- string [Unit](#)
- [MeasureType](#) Type
- [DeviceLevel](#) Level
- [MM\\_ID\\_Category](#) ID\_Cat

**10.302.1 Detailed Description**

Definition at line 22598 of file DCM.idl.

The documentation for this struct was generated from the following file:

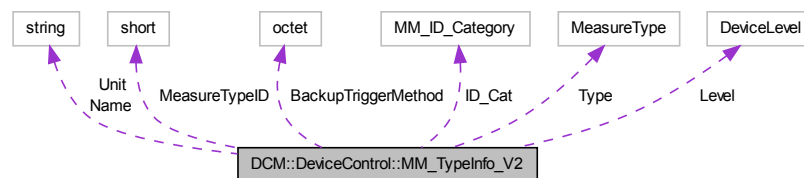
- [DCM.idl](#)

**10.303 DCM::DeviceControl::MM\_TypeInfo\_V2 Struct Reference**

V2 of [MM\\_TypeInfo](#): BackupTriggerMethod is added.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MM\_TypeInfo\_V2:

**Public Attributes**

- unsigned short [MeasureTypeID](#)
- string [Name](#)
- string [Unit](#)
- [MeasureType](#) Type
- [DeviceLevel](#) Level
- [MM\\_ID\\_Category](#) ID\_Cat
- octet [BackupTriggerMethod](#)

**10.303.1 Detailed Description**

V2 of [MM\\_TypeInfo](#): BackupTriggerMethod is added.

Definition at line 22615 of file DCM.idl.

The documentation for this struct was generated from the following file:

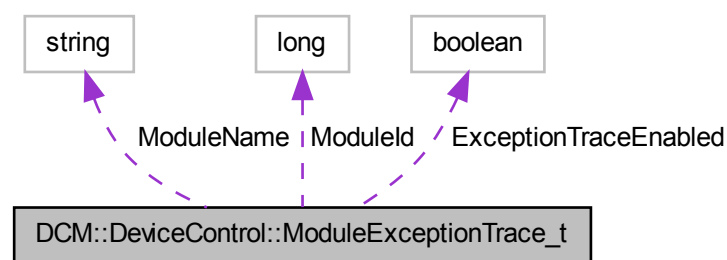
- [DCM.idl](#)

### 10.304 DCM::DeviceControl::ModuleExceptionTrace\_t Struct Reference

Structure to get or set Debug Trace Level information.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ModuleExceptionTrace\_t:



#### Public Attributes

- unsigned long [ModuleId](#)
- string [ModuleName](#)
- boolean [ExceptionTraceEnabled](#)

#### 10.304.1 Detailed Description

Structure to get or set Debug Trace Level information.

When setting the Debug Trace Levels the `ModuleName` is ignored.

Definition at line 1488 of file `DCM.idl`.

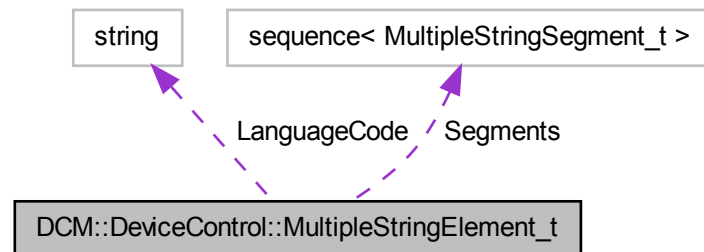
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.305 DCM::DeviceControl::MultipleStringElement\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MultipleStringElement\_t:



#### Public Attributes

- `string` [LanguageCode](#)
- `sequence< MultipleStringSegment\_t >` [Segments](#)

#### 10.305.1 Detailed Description

Definition at line 8834 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

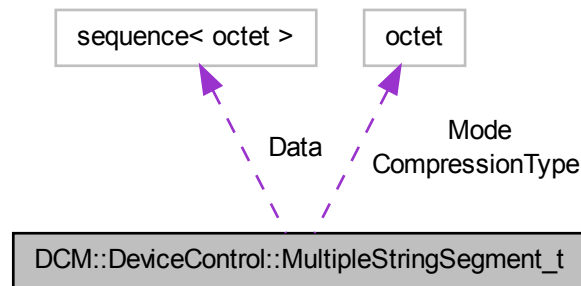
- [DCM.idl](#)

### 10.306 DCM::DeviceControl::MultipleStringSegment\_t Struct Reference

Multiple String: ATSC string representation.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::MultipleStringSegment\_t:



#### Public Attributes

- octet [CompressionType](#)
- octet [Mode](#)
- [ByteStream](#) Data

*String segment in UTF-8 format.*

#### 10.306.1 Detailed Description

Multiple String: ATSC string representation.

Actually, the string is passed in UTF-8 format for easy handling. The language code, compression type and mode are passed, so they can be changed.

Definition at line 8827 of file DCM.idl.

The documentation for this struct was generated from the following file:

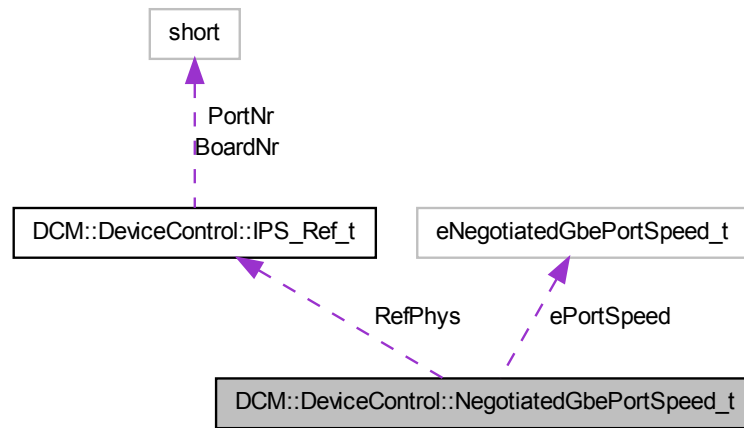
- [DCM.idl](#)

#### 10.307 DCM::DeviceControl::NegotiatedGbePortSpeed\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::NegotiatedGbePortSpeed\_t:



#### Public Attributes

- [IPS\\_Ref\\_t RefPhys](#)  
*port identifier*
- [eNegotiatedGbePortSpeed\\_t ePortSpeed](#)

#### 10.307.1 Detailed Description

Definition at line 30859 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

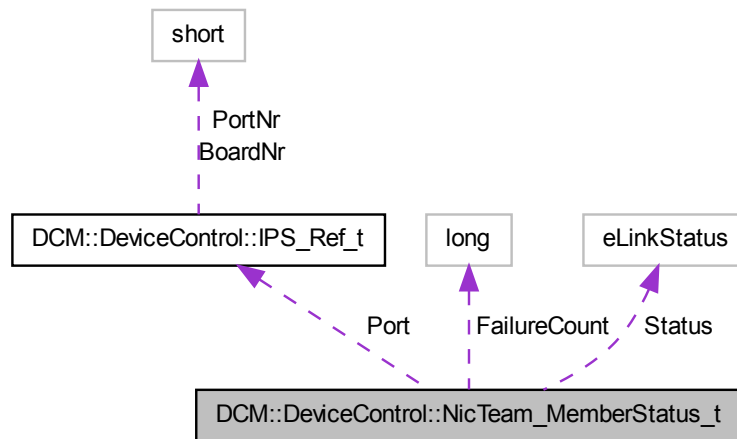
- [DCM.idl](#)

### 10.308 DCM::DeviceControl::NicTeam\_MemberStatus\_t Struct Reference

Structure describing the status of a NIC team member.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::NicTeam\_MemberStatus\_t:



#### Public Attributes

- [IPS\\_Ref\\_t](#) Port
- [eLinkStatus](#) Status
- unsigned long [FailureCount](#)

#### 10.308.1 Detailed Description

Structure describing the status of a NIC team member.

#### Version

Release 11.10

Definition at line 2202 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

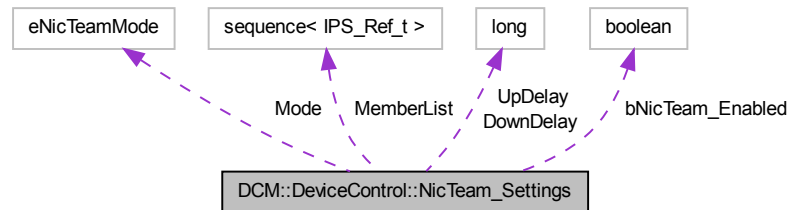
- [DCM.idl](#)

### 10.309 DCM::DeviceControl::NicTeam\_Settings Struct Reference

Structure to get or set NIC team configuration.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::NicTeam\_Settings:



### Public Attributes

- boolean [bNicTeam\\_Enabled](#)
- [eNicTeamMode](#) Mode
- [NicTeam\\_MemberList\\_t](#) MemberList
- unsigned long [UpDelay](#)
- unsigned long [DownDelay](#)

### 10.309.1 Detailed Description

Structure to get or set NIC team configuration.

### Version

Release 11.10

Definition at line 2188 of file DCM.idl.

The documentation for this struct was generated from the following file:

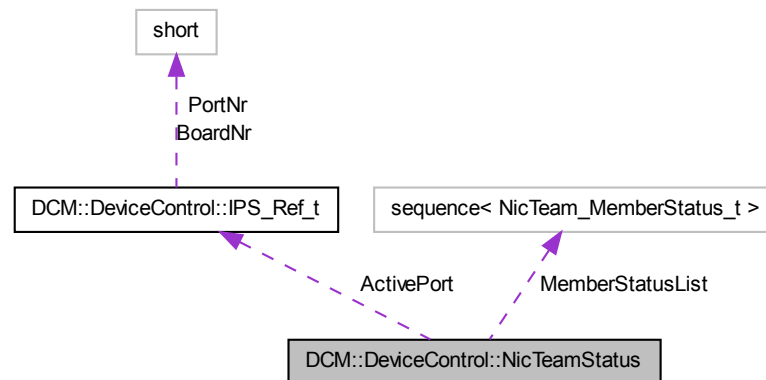
- [DCM.idl](#)

### 10.310 DCM::DeviceControl::NicTeamStatus Struct Reference

Structure to get NIC team status.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::NicTeamStatus:



#### Public Attributes

- [IPS\\_Ref\\_t ActivePort](#)
- [NicTeam\\_MemberStatusList\\_t MemberStatusList](#)

#### 10.310.1 Detailed Description

Structure to get NIC team status.

#### Version

Release 11.10

Definition at line 2218 of file DCM.idl.

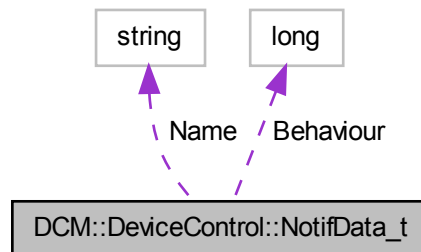
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.311 DCM::DeviceControl::NotifData\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::NotifData\_t:



#### Public Attributes

- string [Name](#)
- unsigned long [Behaviour](#)  
*0: send buffered, 1: send directly*

#### 10.311.1 Detailed Description

Definition at line 955 of file `DCM.idl`.

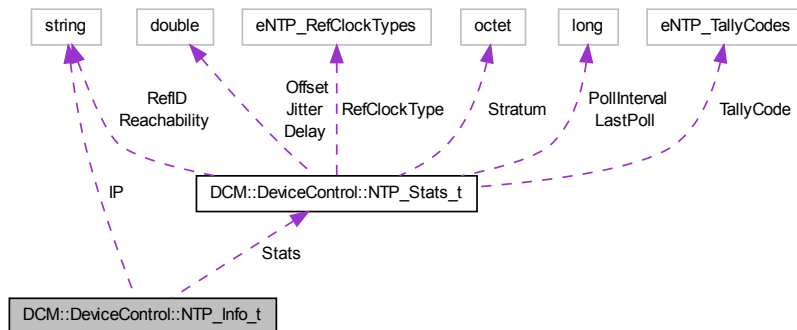
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.312 DCM::DeviceControl::NTP\_Info\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::NTP\_Info\_t:



#### Public Attributes

- string [IP](#)
- [NTP\\_Stats\\_t](#) Stats

#### 10.312.1 Detailed Description

Definition at line 704 of file DCM.idl.

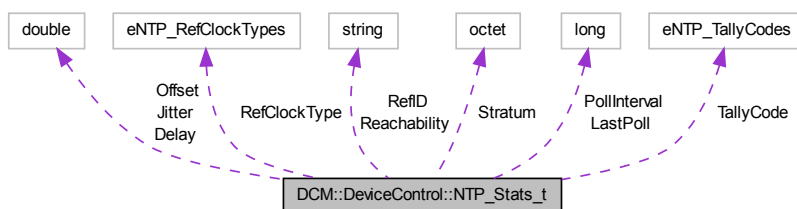
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.313 DCM::DeviceControl::NTP\_Stats\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::NTP\_Stats\_t:



### Public Attributes

- [eNTP\\_TallyCodes TallyCode](#)
- string [RefID](#)  
*Reference Clock Identifier.*
- octet [Stratum](#)  
*Defines the distance to the reference clock.*
- [eNTP\\_RefClockTypes RefClockType](#)
- long [LastPoll](#)  
*Time that elapsed since last poll attempt.*
- long [PollInterval](#)  
*Current interval between poll attempts, in seconds.*
- string [Reachability](#)  
*Indicates the reachability status of the peer as an octal number.*
- double [Delay](#)  
*Indicates the roundtrip delay of the peer clock relative to the local clock over the network path between them, in seconds.*
- double [Offset](#)  
*Indicates the offset of the peer clock relative to the local clock, in seconds.*
- double [Jitter](#)  
*The estimated time error of the system clock measured as an exponential average of RMS time differences.*

#### 10.313.1 Detailed Description

Definition at line 690 of file DCM.idl.

The documentation for this struct was generated from the following file:

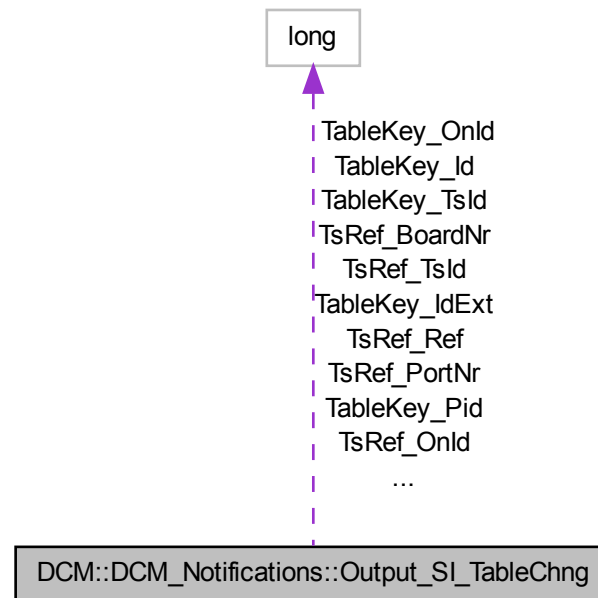
- [DCM.idl](#)

### 10.314 DCM::DCM\_Notifications::Output\_SI\_TableChng Struct Reference

Notification sent when a Table is added (starts streaming) or changed.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DCM\_Notifications::Output\_SI\_TableChng:



### Public Attributes

- unsigned long [TsRef\\_BoardNr](#)
- unsigned long [TsRef\\_PortNr](#)
- unsigned long [TsRef\\_Ref](#)
- unsigned long [TsRef\\_OnId](#)
- unsigned long [TsRef\\_TsId](#)
- unsigned long [TableKey\\_Id](#)
- unsigned long [TableKey\\_IdExt](#)  
*SID,.... Set to 0xFFFFFFFF when not used.*
- unsigned long [TableKey\\_OnId](#)  
*Set to 0xFFFFFFFF when not used.*
- unsigned long [TableKey\\_TsId](#)  
*Set to 0xFFFFFFFF when not used.*
- unsigned long [TableKey\\_Pid](#)  
*Always filled in. Only needed for AIT or tables on non-standard PID's.*

#### 10.314.1 Detailed Description

Notification sent when a Table is added (starts streaming) or changed.

Definition at line 32296 of file DCM.idl.



The documentation for this struct was generated from the following file:

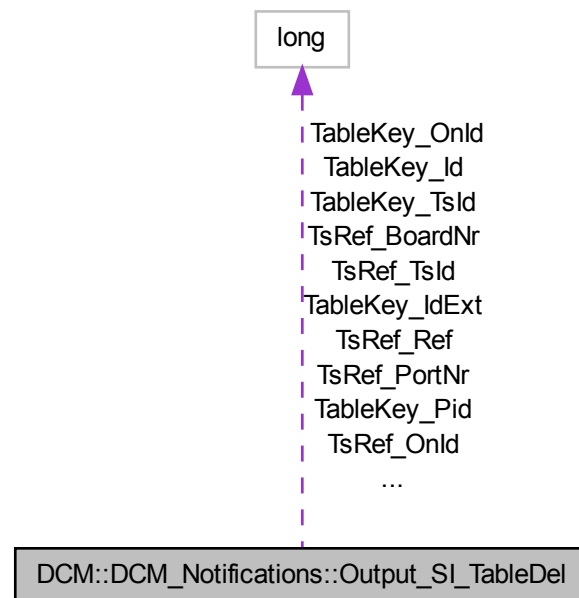
- [DCM.idl](#)

### 10.315 DCM::DCM\_Notifications::Output\_SI\_TableDel Struct Reference

Notification sent when a Table is deleted (stops streaming).

```
import "DCM.idl";
```

Collaboration diagram for DCM::DCM\_Notifications::Output\_SI\_TableDel:



#### Public Attributes

- unsigned long [TsRef\\_BoardNr](#)
- unsigned long [TsRef\\_PortNr](#)
- unsigned long [TsRef\\_Ref](#)
- unsigned long [TsRef\\_OnId](#)
- unsigned long [TsRef\\_TsId](#)
- unsigned long [TableKey\\_Id](#)
- unsigned long [TableKey\\_IdExt](#)  
*SID,.... Set to 0xFFFFFFFF when not used.*
- unsigned long [TableKey\\_OnId](#)  
*Set to 0xFFFFFFFF when not used.*
- unsigned long [TableKey\\_TsId](#)

*Set to 0xFFFFFFFF when not used.*

- unsigned long [TableKey\\_Pid](#)

*Always filled in. Only needed for AIT or tables on non-standard PID's.*

### 10.315.1 Detailed Description

Notification sent when a Table is deleted (stops streaming).

Definition at line 32312 of file DCM.idl.

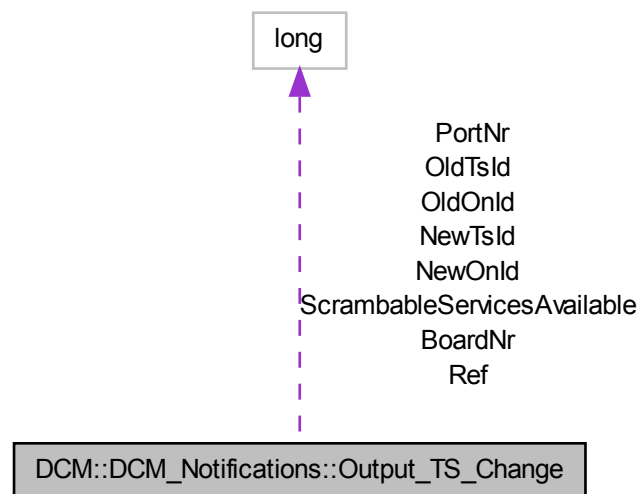
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.316 DCM::DCM\_Notifications::Output\_TS\_Change Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DCM\_Notifications::Output\_TS\_Change:



### Public Attributes

- unsigned long [BoardNr](#)
- unsigned long [PortNr](#)
- unsigned long [Ref](#)
- unsigned long [OldOnId](#)
- unsigned long [NewOnId](#)
- unsigned long [OldTsId](#)

- unsigned long [NewTsId](#)
- unsigned long [ScrambleServicesAvailable](#)  
*when true, same as [DCM\\_TsIdOnIdChange](#)*

### 10.316.1 Detailed Description

#### Remarks

replaces [DCM\\_TsIdOnIdChange](#), but is also sent for TS'es without DVB\_SCRAMBLING licenses. Notification sent when a TS is added (created on [DCM](#)) or changed (TSID/ONID, scramble services).

Definition at line 32271 of file DCM.idl.

The documentation for this struct was generated from the following file:

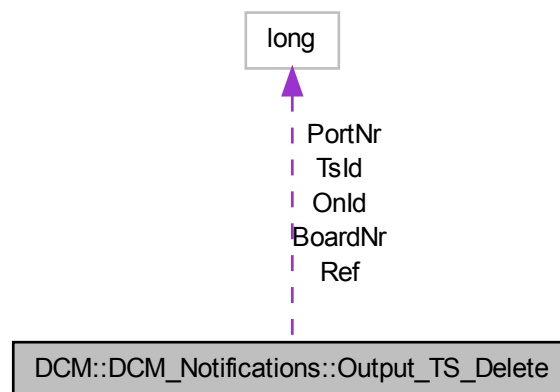
- [DCM.idl](#)

### 10.317 DCM::DCM\_Notifications::Output\_TS\_Delete Struct Reference

Notification sent when a TS is deleted (removed from [DCM](#)).

```
import "DCM.idl";
```

Collaboration diagram for DCM::DCM\_Notifications::Output\_TS\_Delete:



#### Public Attributes

- unsigned long [BoardNr](#)
- unsigned long [PortNr](#)
- unsigned long [Ref](#)
- unsigned long [OnId](#)
- unsigned long [TsId](#)

## 10.317.1 Detailed Description

Notification sent when a TS is deleted (removed from [DCM](#)).

Definition at line 32285 of file DCM.idl.

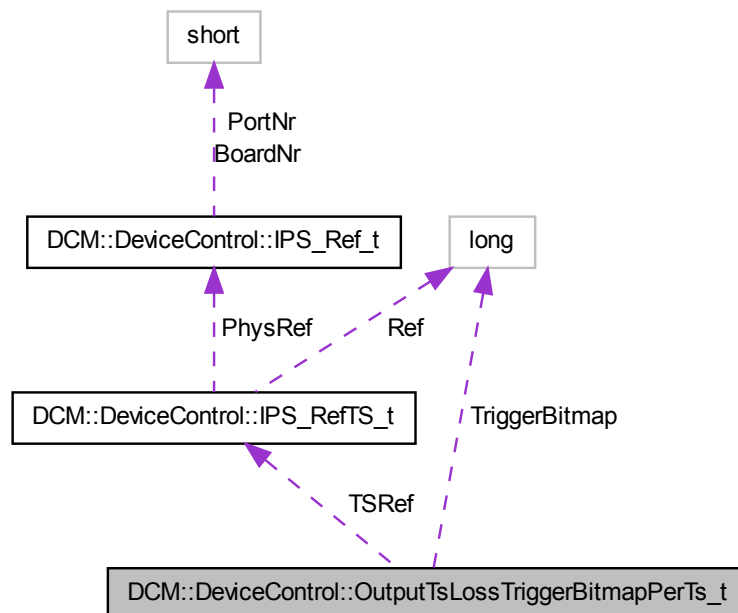
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.318 DCM::DeviceControl::OutputTsLossTriggerBitmapPerTs\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutputTsLossTriggerBitmapPerTs\_t:



## Public Attributes

- [IPS\\_RefTS\\_t TSRef](#)  
*TSRef of TS.*
- [OutputTsLossTriggerBitmap\\_t TriggerBitmap](#)  
*Trigger bitmap configuration for Output TS Loss.*

## 10.318.1 Detailed Description

Definition at line 32124 of file DCM.idl.

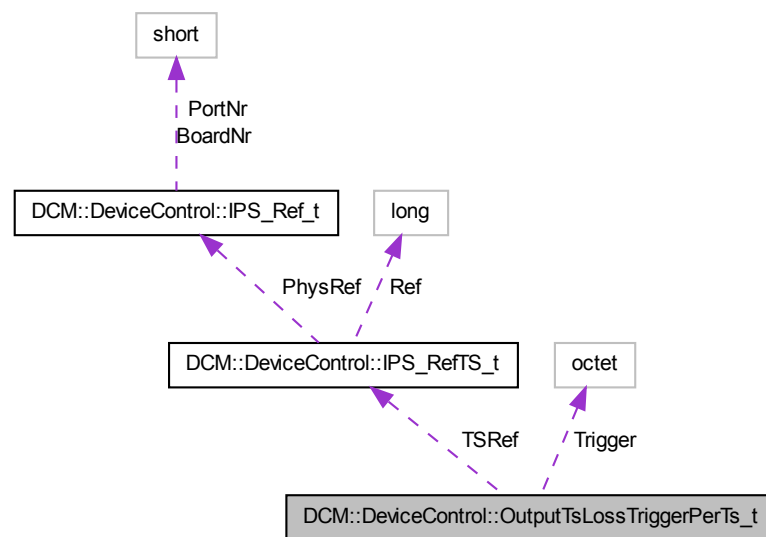
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.319 DCM::DeviceControl::OutputTsLossTriggerPerTs\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutputTsLossTriggerPerTs\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t TSRef](#)  
*TSRef of TS.*
- [OutputTsLossTrigger\\_t Trigger](#)  
*Trigger configuration for Output TS Loss.*

#### 10.319.1 Detailed Description

Definition at line 32058 of file DCM.idl.

The documentation for this struct was generated from the following file:

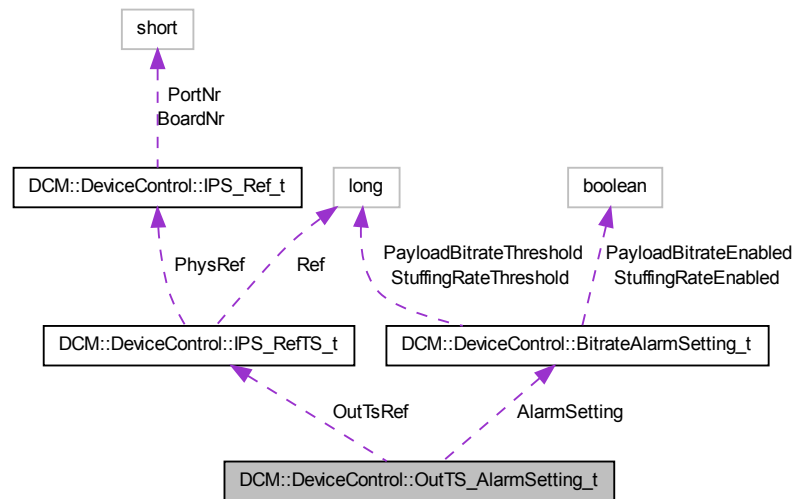
- [DCM.idl](#)

### 10.320 DCM::DeviceControl::OutTS\_AlarmSetting\_t Struct Reference

Structure to pass payload and stuffing bitrate threshold alarm settings to one specific TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_AlarmSetting\_t:



### Public Attributes

- [IPS\\_RefTS\\_t OutTsRef](#)  
*Reference to the TS for which the settings are intended.*
- [BitrateAlarmSetting\\_t AlarmSetting](#)  
*The alarm settings themselves.*

#### 10.320.1 Detailed Description

Structure to pass payload and stuffing bitrate threshold alarm settings to one specific TS.

Definition at line 22995 of file DCM.idl.

The documentation for this struct was generated from the following file:

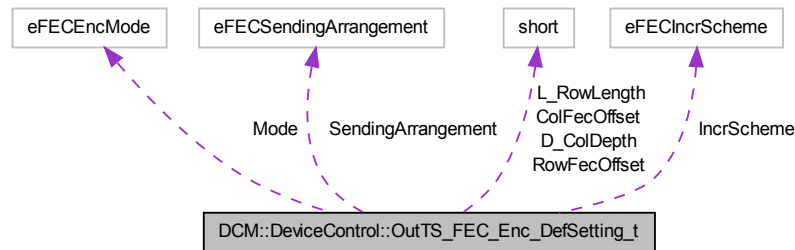
- [DCM.idl](#)

### 10.321 DCM::DeviceControl::OutTS\_FEC\_Enc\_DefSetting\_t Struct Reference

Default FEC encoder settings (to be applied for new TS's)

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_FEC\_Enc\_DefSetting\_t:



### Public Attributes

- [eFECEncMode Mode](#)  
*default value is FEC disabled*
- [eFECSendingArrangement SendingArrangement](#)  
*for 4.0 release, SendingArrangement must always be ePRO\_MPEG\_COP3\_ANNEX\_B*
- [eFECIncrScheme IncrScheme](#)  
*default value is increment UDP (eUDP\_OFFSET) (fixed for 4.0 release)*
- unsigned short [ColFecOffset](#)  
*default value column offset = 2 (fixed for 4.0 release)*
- unsigned short [RowFecOffset](#)  
*default value row offset = 4 (fixed for 4.0 release)*
- unsigned short [D\\_ColDepth](#)  
*note: the name of this member changed from 5.0->5.1 The old name was D\_RowWidth*
- unsigned short [L\\_RowLength](#)  
*note: the name of this member changed from 5.0->5.1.*

#### 10.321.1 Detailed Description

Default FEC encoder settings (to be applied for new TS's)

Definition at line 19410 of file DCM.idl.

The documentation for this struct was generated from the following file:

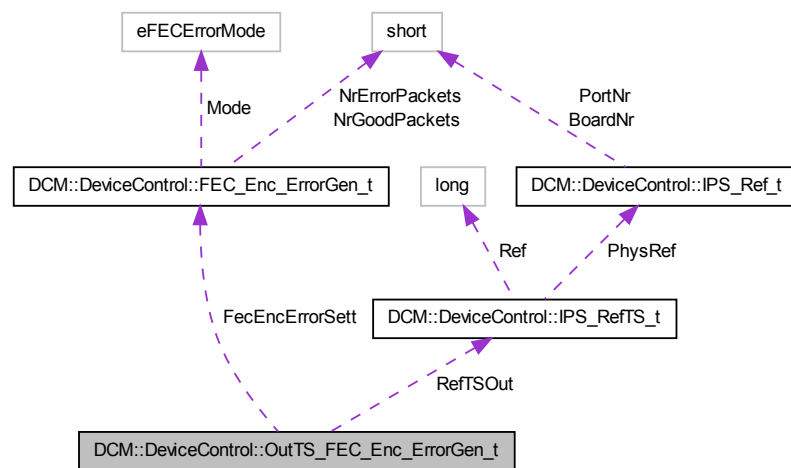
- [DCM.idl](#)

### 10.322 DCM::DeviceControl::OutTS\_FEC\_Enc\_ErrorGen.t Struct Reference

FEC error generation for specific TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_FEC\_Enc\_ErrorGen\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTSOut](#)
- [FEC\\_Enc\\_ErrorGen\\_t FecEncErrorSett](#)

#### 10.322.1 Detailed Description

FEC error generation for specific TS.

Definition at line 19444 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

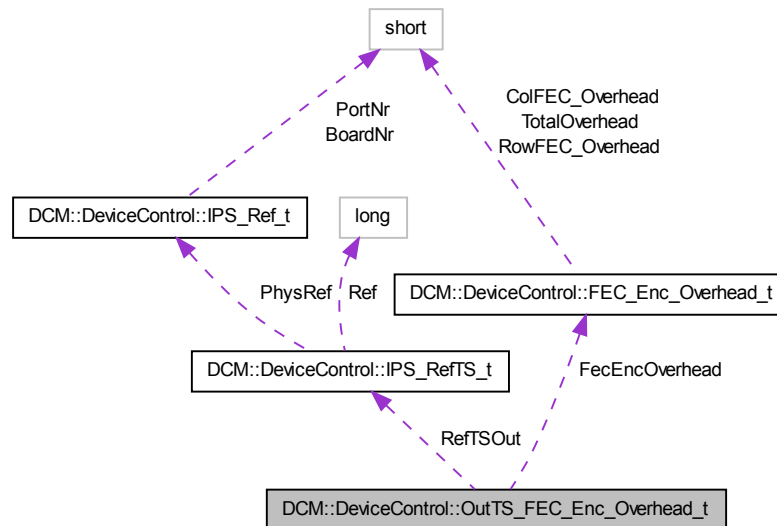
### 10.323 DCM::DeviceControl::OutTS\_FEC\_Enc\_Overhead\_t Struct Reference

Bitrate overhead for specific TS.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::OutTS\_FEC\_Enc\_Overhead\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTSOut](#)
- [FEC\\_Enc\\_Overhead\\_t FecEncOverhead](#)

### 10.323.1 Detailed Description

Bitrate overhead for specific TS.

Definition at line 19459 of file DCM.idl.

The documentation for this struct was generated from the following file:

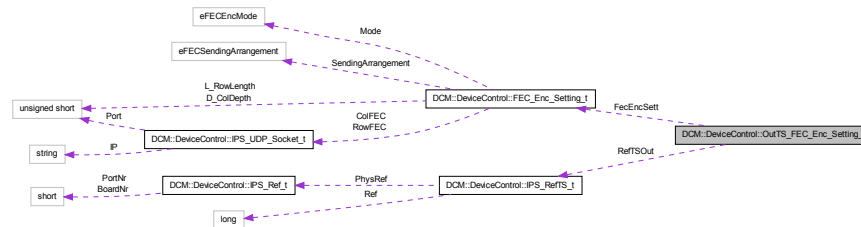
- [DCM.idl](#)

### 10.324 DCM::DeviceControl::OutTS\_FEC\_Enc\_Setting\_t Struct Reference

FEC encoder settings for specific TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_FEC\_Enc\_Setting\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTSOut](#)
- [FEC\\_Enc\\_Setting\\_t FecEncSett](#)

### 10.324.1 Detailed Description

FEC encoder settings for specific TS.

Definition at line 19377 of file DCM.idl.

The documentation for this struct was generated from the following file:

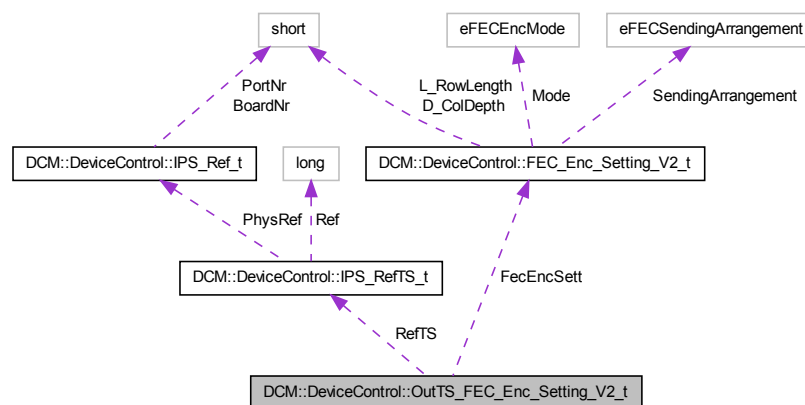
- [DCM.idl](#)

### 10.325 DCM::DeviceControl::OutTS\_FEC\_Enc\_Setting\_V2\_t Struct Reference

FEC encoder settings for specific TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_FEC\_Enc\_Setting\_V2\_t:



**Public Attributes**

- [IPS\\_RefTS\\_t RefTS](#)
- [FEC\\_Enc\\_Setting\\_V2\\_t FecEncSett](#)

**10.325.1 Detailed Description**

FEC encoder settings for specific TS.

Definition at line 19398 of file DCM.idl.

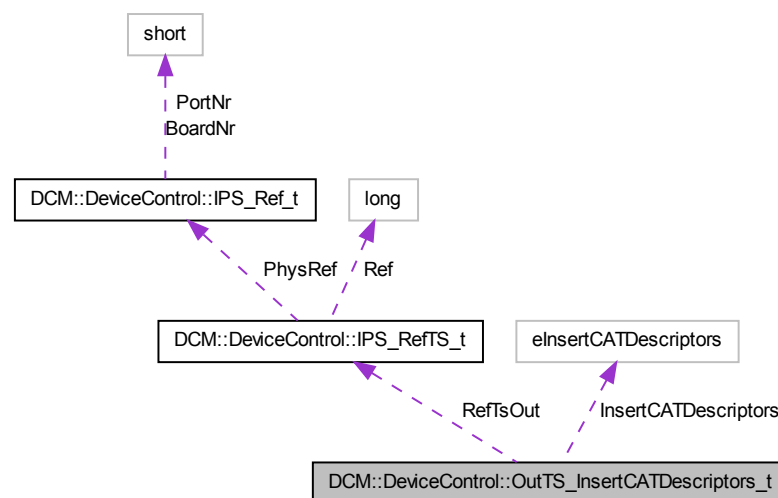
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

**10.326 DCM::DeviceControl::OutTS\_InsertCATDescriptors\_t Struct Reference**

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_InsertCATDescriptors\_t:

**Public Attributes**

- [IPS\\_RefTS\\_t RefTsOut](#)
- [eInsertCATDescriptors InsertCATDescriptors](#)

**10.326.1 Detailed Description**

Definition at line 2926 of file DCM.idl.

The documentation for this struct was generated from the following file:

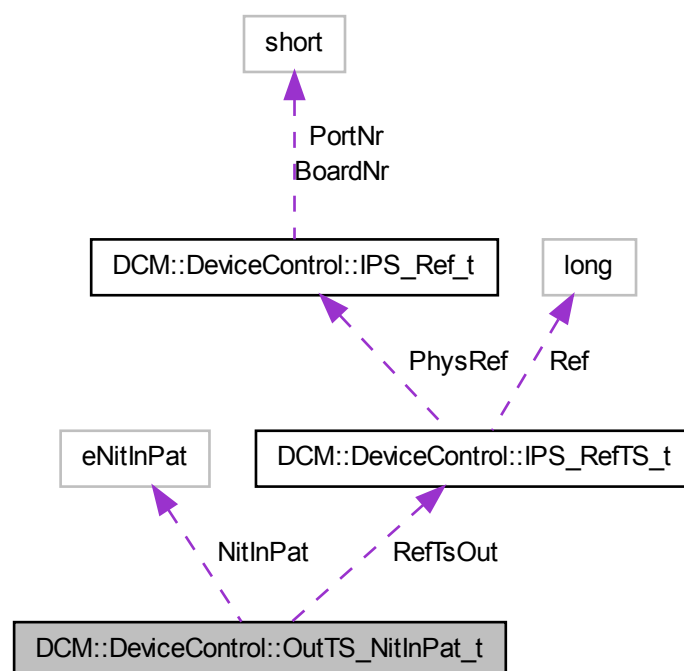
- [DCM.idl](#)

### 10.327 DCM::DeviceControl::OutTS\_NitInPat\_t Struct Reference

NIT in PAT setting for specific TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_NitInPat\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTsOut](#)
- [eNitInPat NitInPat](#)

#### 10.327.1 Detailed Description

NIT in PAT setting for specific TS.

Definition at line 4006 of file DCM.idl.

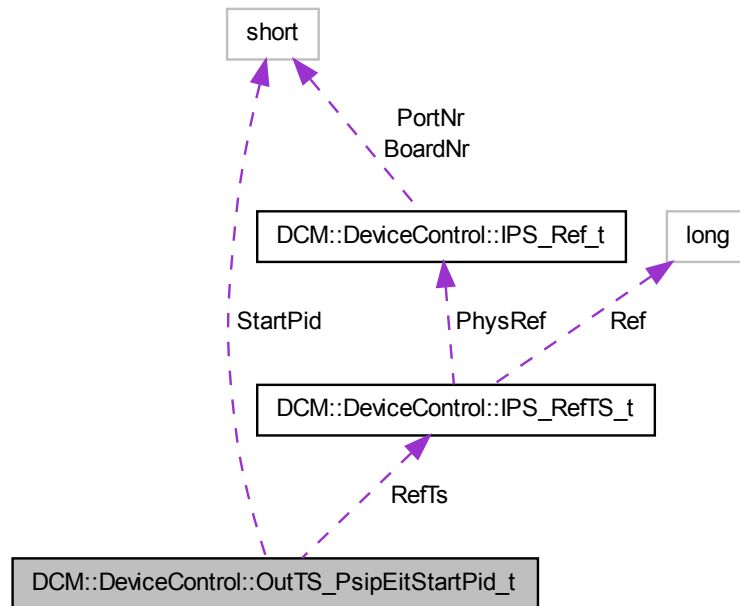
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.328 DCM::DeviceControl::OutTS\_PsipEitStartPid\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_PsipEitStartPid\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- unsigned short [StartPid](#)

## 10.328.1 Detailed Description

Definition at line 9281 of file DCM.idl.

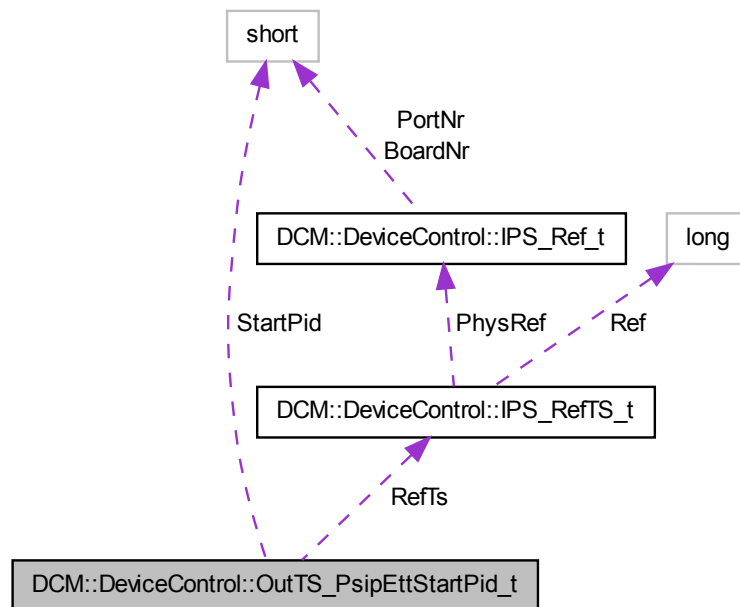
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.329 DCM::DeviceControl::OutTS\_PsipEttStartPid\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_PsipEttStartPid\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- unsigned short [StartPid](#)

#### 10.329.1 Detailed Description

Definition at line 9289 of file DCM.idl.

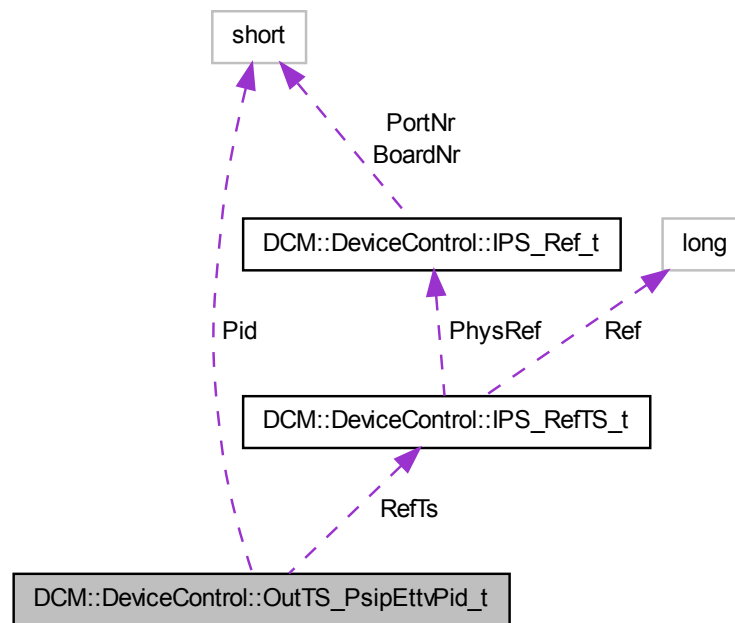
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.330 DCM::DeviceControl::OutTS\_PsipEttvPid\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_PsipEttvPid\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- unsigned short [Pid](#)

#### 10.330.1 Detailed Description

Definition at line 9571 of file DCM.idl.

The documentation for this struct was generated from the following file:

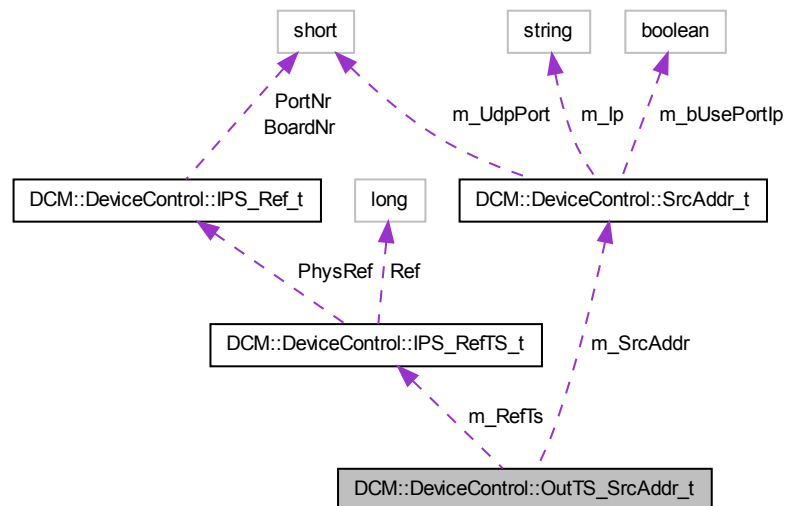
- [DCM.idl](#)

### 10.331 DCM::DeviceControl::OutTS\_SrcAddr\_t Struct Reference

Source Address parameters for an OutTS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_SrcAddr\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t m\\_RefTs](#)
- [SrcAddr\\_t m\\_SrcAddr](#)

#### 10.331.1 Detailed Description

Source Address parameters for an OutTS.

Used for all ports in a portset, both mpeg streams and fec streams.

Definition at line 18188 of file DCM.idl.

The documentation for this struct was generated from the following file:

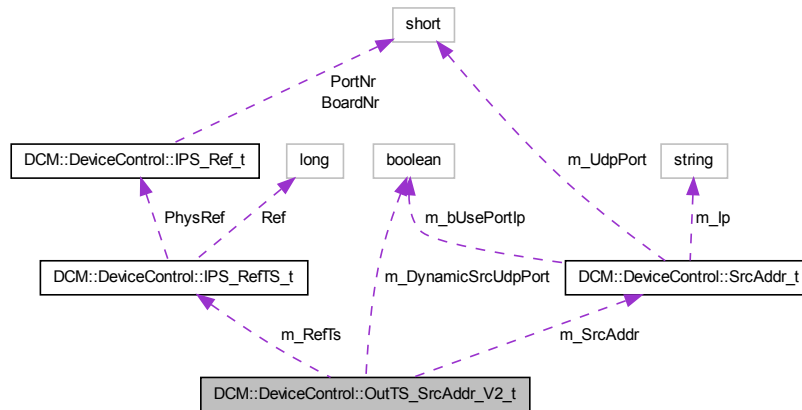
- [DCM.idl](#)

#### 10.332 DCM::DeviceControl::OutTS\_SrcAddr\_V2\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::OutTS\_SrcAddr\_V2\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t m\\_RefTs](#)
- [SrcAddr\\_t m\\_SrcAddr](#)
- boolean [m\\_DynamicSrcUdpPort](#)

#### 10.332.1 Detailed Description

Definition at line 18196 of file DCM.idl.

The documentation for this struct was generated from the following file:

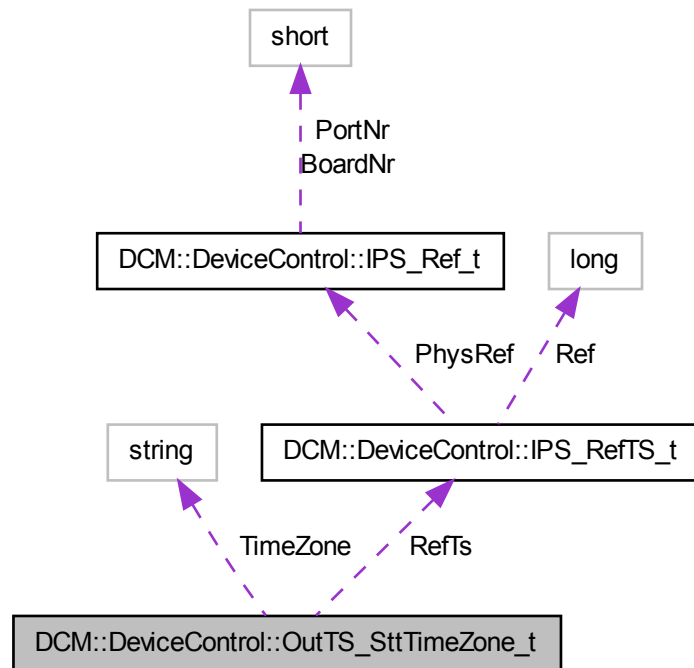
- [DCM.idl](#)

### 10.333 DCM::DeviceControl::OutTS\_SttTimeZone\_t Struct Reference

Transport stream specific STT time zone setting.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_SttTimeZone\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- string [TimeZone](#)

#### 10.333.1 Detailed Description

Transport stream specific STT time zone setting.

Definition at line 8963 of file DCM.idl.

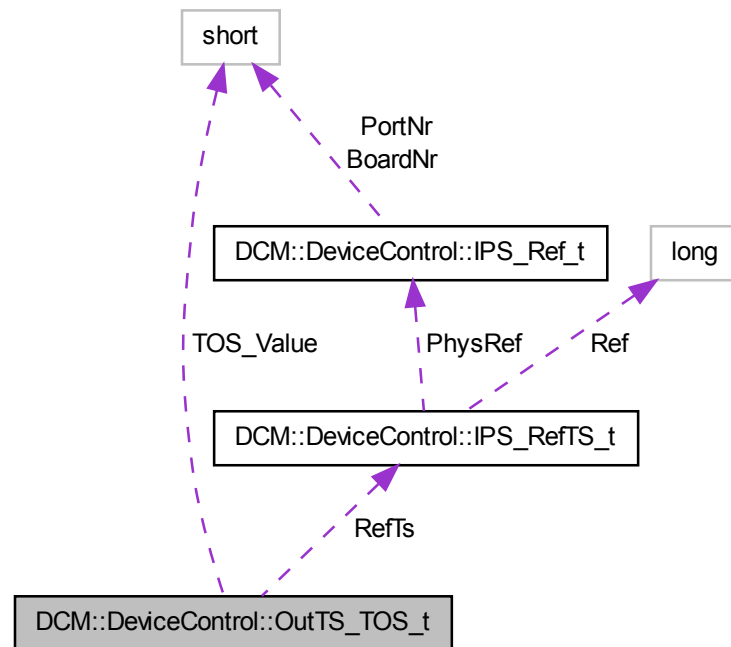
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.334 DCM::DeviceControl::OutTS\_TOS\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_TOS\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- unsigned short [TOS\\_Value](#)

#### 10.334.1 Detailed Description

Definition at line 18090 of file `DCM.idl`.

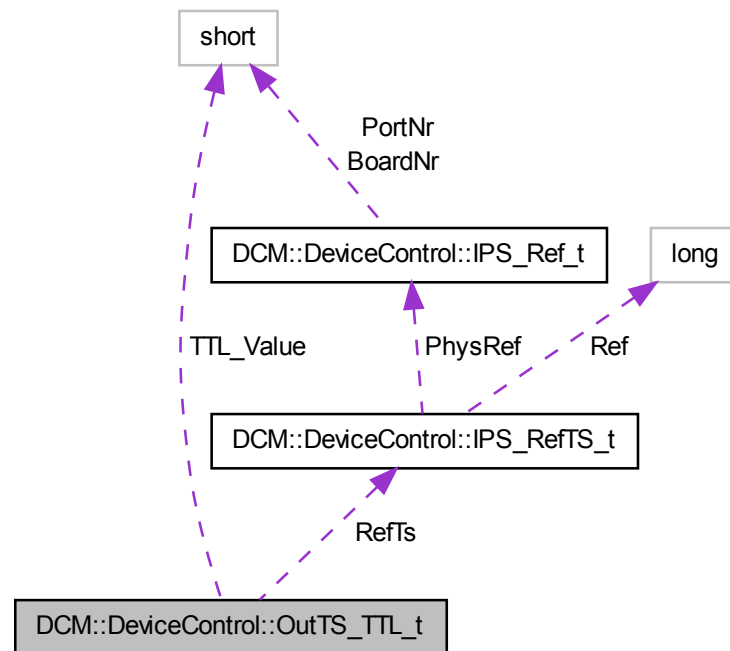
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.335 DCM::DeviceControl::OutTS\_TTL\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_TTL\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- unsigned short [TTL\\_Value](#)

#### 10.335.1 Detailed Description

Definition at line 18250 of file `DCM.idl`.

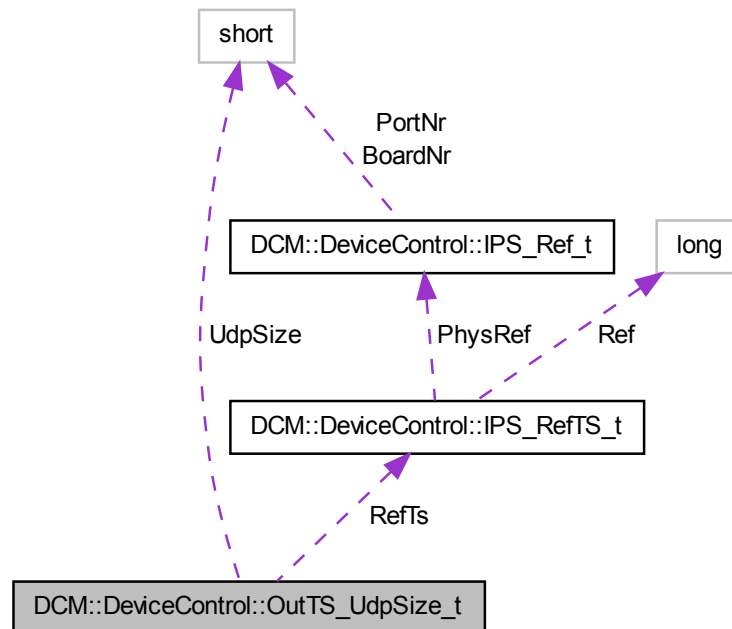
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.336 DCM::DeviceControl::OutTS\_UdpSize\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_UdpSize\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- unsigned short [UdpSize](#)

#### 10.336.1 Detailed Description

Definition at line 18407 of file `DCM.idl`.

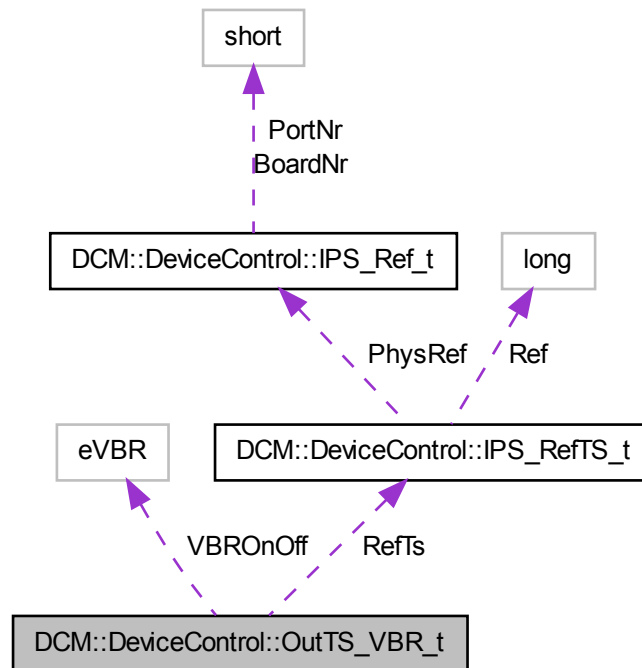
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.337 DCM::DeviceControl::OutTS\_VBR\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_VBR\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- [eVBR VBROnOff](#)

#### 10.337.1 Detailed Description

Definition at line 18331 of file `DCM.idl`.

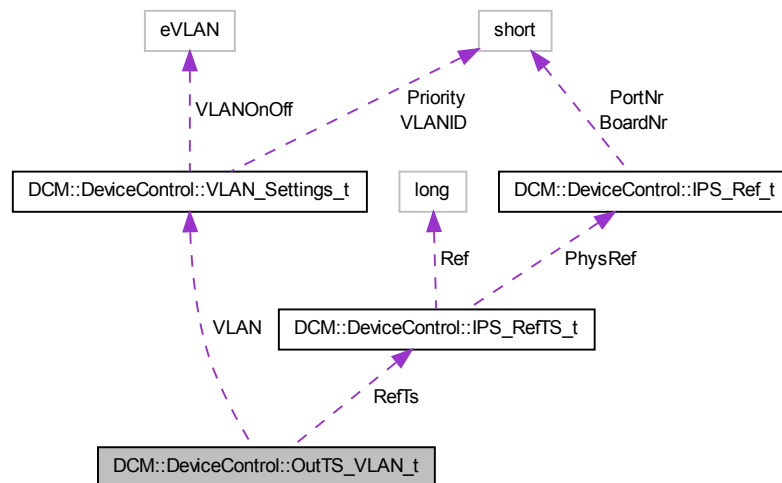
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.338 DCM::DeviceControl::OutTS\_VLAN\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTS\_VLAN\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- [VLAN\\_Settings\\_t VLAN](#)

#### 10.338.1 Detailed Description

Definition at line 18011 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

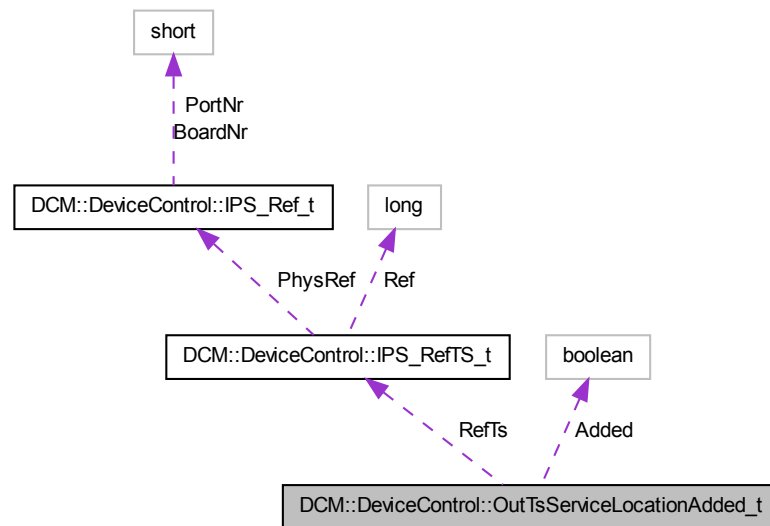
- [DCM.idl](#)

### 10.339 DCM::DeviceControl::OutTsServiceLocationAdded\_t Struct Reference

Transport stream specific "Service Location Added" setting parameters.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::OutTsServiceLocationAdded\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- boolean [Added](#)

#### 10.339.1 Detailed Description

Transport stream specific "Service Location Added" setting parameters.

Definition at line 9209 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

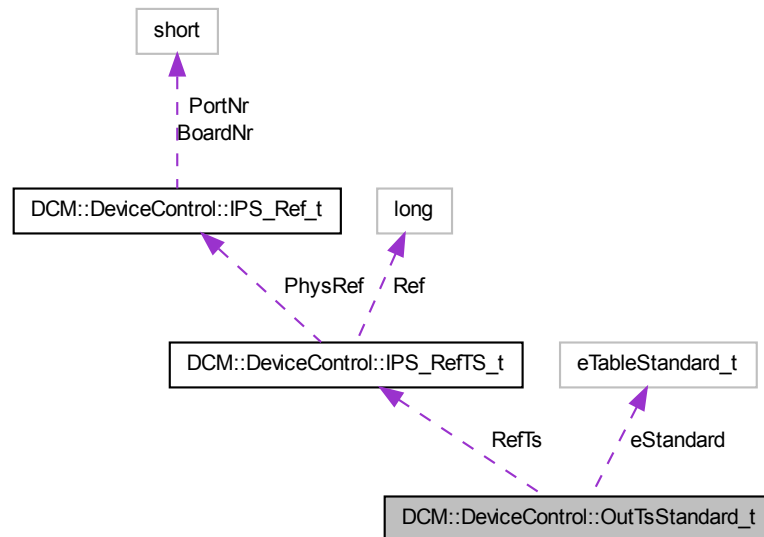
### 10.340 DCM::DeviceControl::OutTsStandard\_t Struct Reference

Transport stream specific Output TS Standard setting parameters.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::OutTsStandard\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- [eTableStandard\\_t eStandard](#)

#### 10.340.1 Detailed Description

Transport stream specific Output TS Standard setting parameters.

Definition at line 8881 of file DCM.idl.

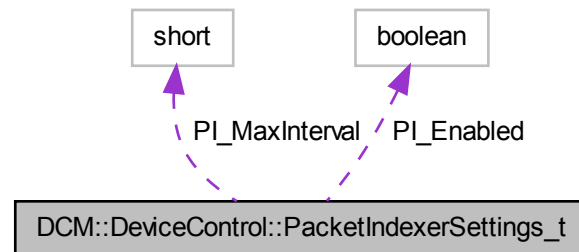
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.341 DCM::DeviceControl::PacketIndexerSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::PacketIndexerSettings\_t:



#### Public Attributes

- boolean [PI\\_Enabled](#)
- unsigned short [PI\\_MaxInterval](#)  
*range 100..1000ms, in steps of 10ms*

#### 10.341.1 Detailed Description

Definition at line 29288 of file `DCM.idl`.

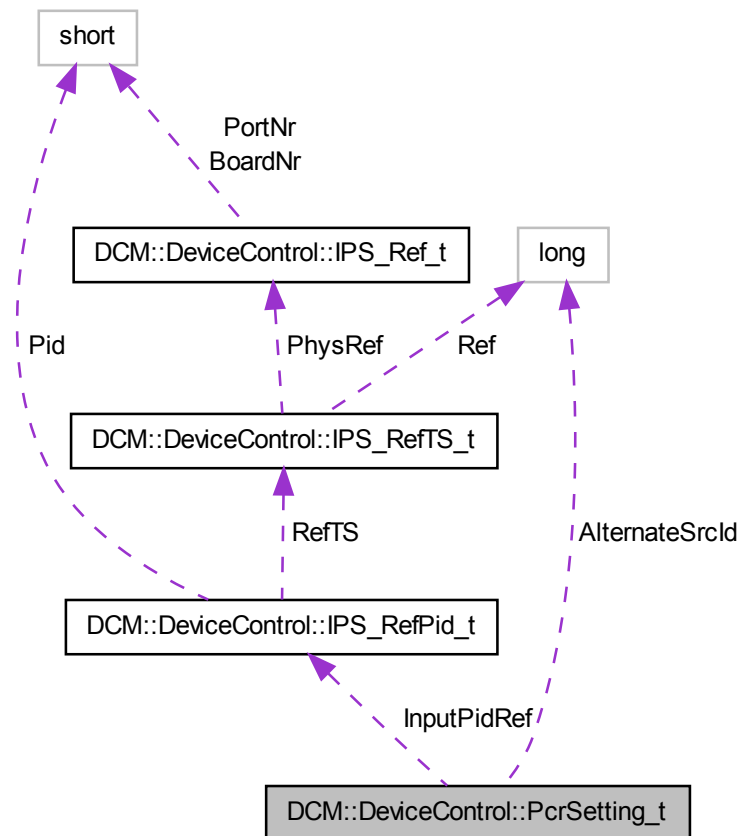
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.342 DCM::DeviceControl::PcrSetting\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::PcrSetting\_t:



## Public Attributes

- [AlternateSrcId\\_t](#) `AlternateSrcId`

*Identifies the alternate service for a specific output service.*

- [IPS\\_RefPid\\_t](#) `InputPidRef`

*If Board, Port and TS Reference are invalid (0xFFFFFFFF), < this meanse it's a "dummy" PCR. Input PID value is used as < preferred output PID value. When set to INVALID\_PID\_VALUE < this means that the PCR will be removed.*

### 10.342.1 Detailed Description

Definition at line 5974 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

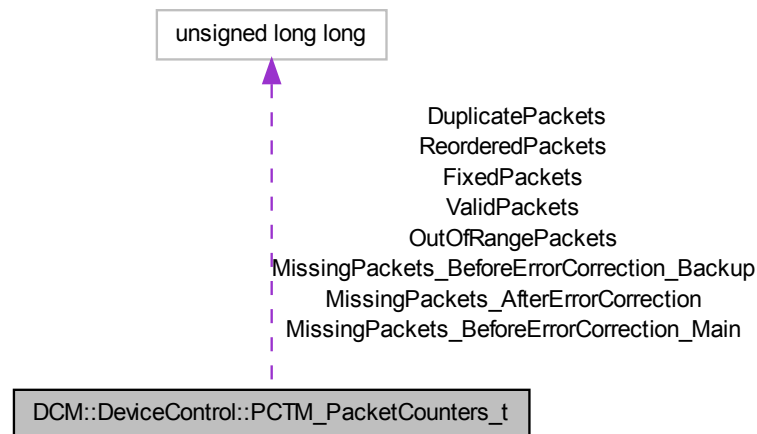
- [DCM.idl](#)

## 10.343 DCM::DeviceControl::PCTM\_PacketCounters\_t Struct Reference

Packet counter values.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::PCTM\_PacketCounters\_t:



### Public Attributes

- unsigned long long [MissingPackets\\_BeforeErrorCorrection\\_Main](#)
- unsigned long long [MissingPackets\\_BeforeErrorCorrection\\_Backup](#)
- unsigned long long [ValidPackets](#)
- unsigned long long [MissingPackets\\_AfterErrorCorrection](#)
- unsigned long long [FixedPackets](#)
- unsigned long long [DuplicatePackets](#)
- unsigned long long [ReorderedPackets](#)
- unsigned long long [OutOfRangePackets](#)

### 10.343.1 Detailed Description

Packet counter values.

Unit: number of packets.

Definition at line 20303 of file DCM.idl.

The documentation for this struct was generated from the following file:

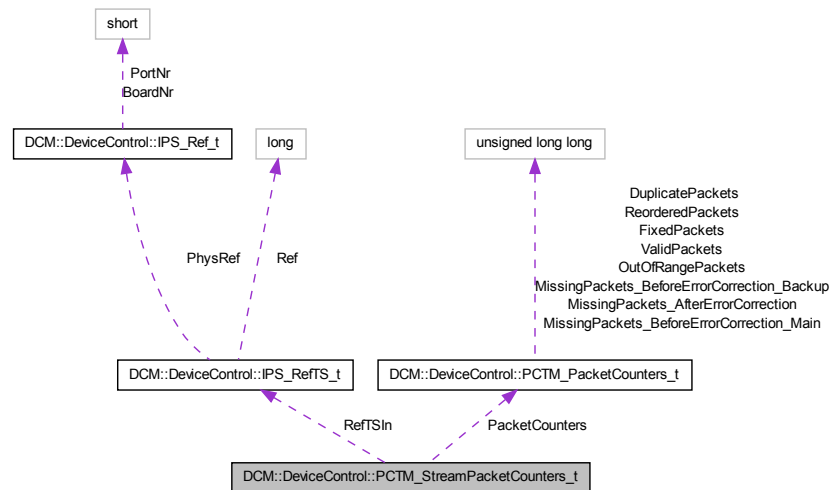
- [DCM.idl](#)

## 10.344 DCM::DeviceControl::PCTM\_StreamPacketCounters\_t Struct Reference

Packet counters of one stream.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::PCTM\_StreamPacketCounters\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTSIn](#)
- [PCTM\\_PacketCounters\\_t PacketCounters](#)

#### 10.344.1 Detailed Description

Packet counters of one stream.

Definition at line 20317 of file DCM.idl.

The documentation for this struct was generated from the following file:

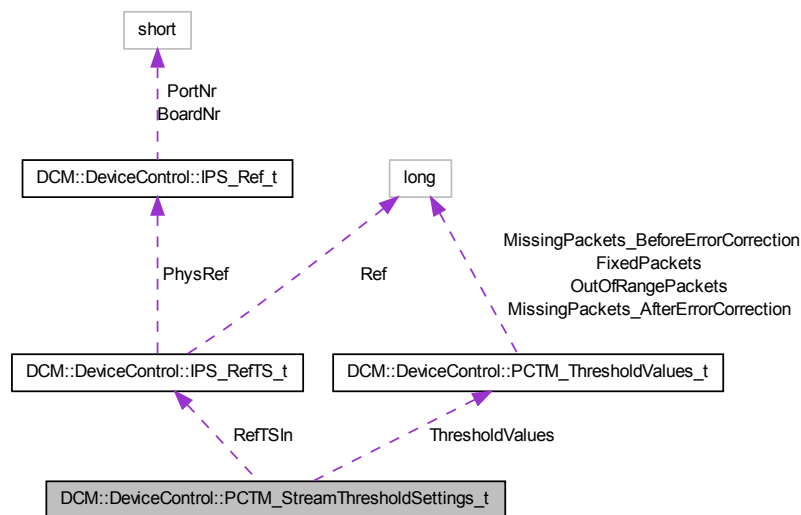
- [DCM.idl](#)

## 10.345 DCM::DeviceControl::PCTM\_StreamThresholdSettings\_t Struct Reference

Threshold settings for the packet types of one stream.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::PCTM\_StreamThresholdSettings\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTSIn](#)
- [PCTM\\_ThresholdValues\\_t ThresholdValues](#)

#### 10.345.1 Detailed Description

Threshold settings for the packet types of one stream.

Definition at line 20287 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

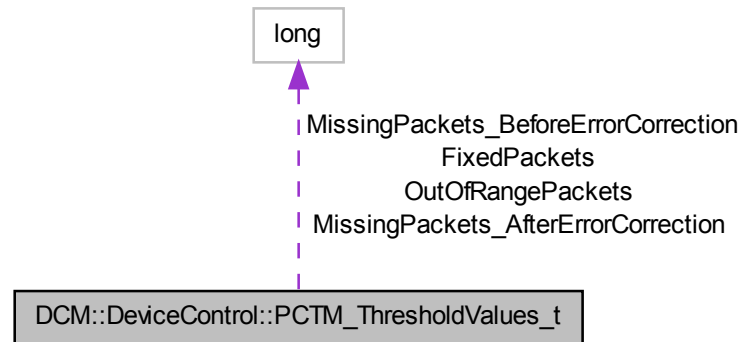
- [DCM.idl](#)

### 10.346 DCM::DeviceControl::PCTM\_ThresholdValues\_t Struct Reference

Threshold settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::PCTM\_ThresholdValues\_t:



#### Public Attributes

- unsigned long [MissingPackets\\_BeforeErrorCorrection](#)
- unsigned long [MissingPackets\\_AfterErrorCorrection](#)
- unsigned long [FixedPackets](#)
- unsigned long [OutOfRangePackets](#)

#### 10.346.1 Detailed Description

Threshold settings.

A non-zero threshold value denotes that threshold monitoring is enabled, otherwise disabled.

Unit: number of packets per 30 sec measurement window.

Definition at line 20277 of file DCM.idl.

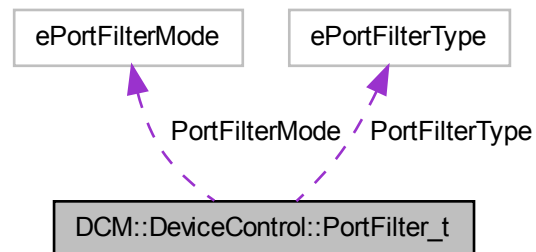
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.347 DCM::DeviceControl::PortFilter\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::PortFilter\_t:



#### Public Attributes

- [ePortFilterType](#) `PortFilterType`
- [ePortFilterMode](#) `PortFilterMode`

#### 10.347.1 Detailed Description

Definition at line 18536 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

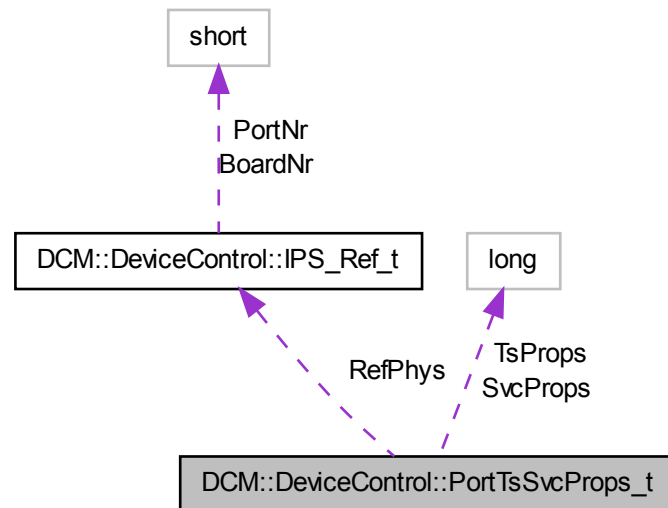
- [DCM.idl](#)

#### 10.348 DCM::DeviceControl::PortTsSvcProps\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::PortTsSvcProps\_t:



#### Public Attributes

- [IPS\\_Ref\\_t RefPhys](#)
- unsigned long [TsProps](#)  
*Bit map of aggregated TS Properties on a port.*
- unsigned long [SvcProps](#)

#### 10.348.1 Detailed Description

Definition at line 4616 of file DCM.idl.

The documentation for this struct was generated from the following file:

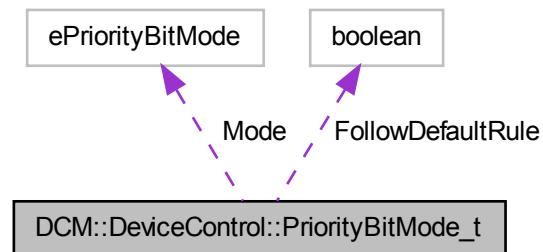
- [DCM.idl](#)

### 10.349 DCM::DeviceControl::PriorityBitMode\_t Struct Reference

Compact CA descriptor setting (per input TS)

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::PriorityBitMode\_t:



#### Public Attributes

- [ePriorityBitMode Mode](#)
- [boolean FollowDefaultRule](#)

*readonly flag indicating if default priority bit settings are used*

#### 10.349.1 Detailed Description

Compact CA descriptor setting (per input TS)

Definition at line 4341 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

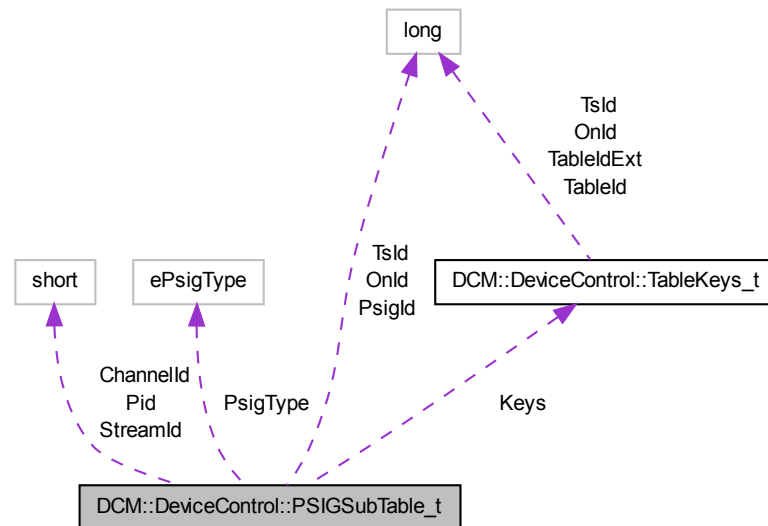
- [DCM.idl](#)

#### 10.350 DCM::DeviceControl::PSIGSubTable\_t Struct Reference

Structure that describes a PSIG provision.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::PSIGSubTable\_t:



### Public Attributes

- unsigned long [OnId](#)  
*As in PSIG channel setup.*
- unsigned long [TsId](#)  
*As in PSIG channel setup.*
- ePsigType [PsigType](#)  
*Property of this PSIG connection (SA specific or not)*
- long [PsigId](#)  
*Identification of the PSIG connection (as used in the scrambler.idl functions)*
- unsigned short [ChannelId](#)  
*PSIG protocol channel ID.*
- unsigned short [StreamId](#)  
*PSIG protocol stream ID.*
- [TableKeys\\_t](#) [Keys](#)  
*Table Keys (extracted from the sections which were provisioned)*
- unsigned short [Pid](#)  
*As in PSIG stream setup.*

#### 10.350.1 Detailed Description

Structure that describes a PSIG provision.

Definition at line 8338 of file DCM.idl.

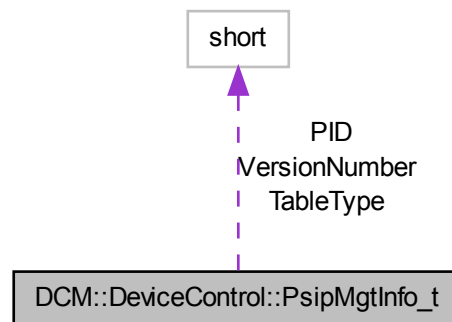
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.351 DCM::DeviceControl::PsipMgtInfo\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::PsipMgtInfo\_t:



#### Public Attributes

- unsigned short [PID](#)
- unsigned short [TableType](#)
- unsigned short [VersionNumber](#)

#### 10.351.1 Detailed Description

Definition at line 9695 of file DCM.idl.

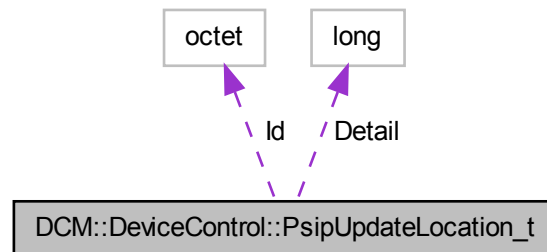
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.352 DCM::DeviceControl::PsipUpdateLocation\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::PsipUpdateLocation\_t:



#### Public Attributes

- `octet` [Id](#)
- `unsigned long` [Detail](#)

#### 10.352.1 Detailed Description

Definition at line 8464 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

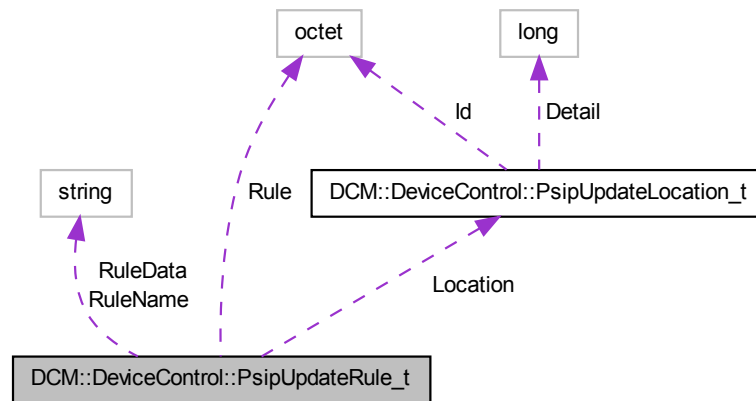
- [DCM.idl](#)

### 10.353 DCM::DeviceControl::PsipUpdateRule\_t Struct Reference

Definition of a PsipUpdate Rule Rule: number uniquely defining a rule 0: Add/update descriptor 2: - Remove descriptor (this list should be updated when more rules are supported) RuleName: actual meaning of the rule (see above) Location: 0x02, 0xFFFFFFFF: PMT 0xCB, start-time: PsipEIT event RuleData: extra data of rule in readable form (UTF-8): Add/update descriptor: new descriptor in hex-string.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::PsipUpdateRule\_t:



#### Public Attributes

- octet [Rule](#)
- string [RuleName](#)
- [PsipUpdateLocation\\_t](#) [Location](#)
- string [RuleData](#)

#### 10.353.1 Detailed Description

Definition of a PsipUpdate Rule Rule: number uniquely defining a rule 0: Add/update descriptor 2: - Remove descriptor (this list should be updated when more rules are supported) RuleName: actual meaning of the rule (see above) Location: 0x02, 0xFFFFFFFF: PMT 0xCB, start-time: PsipEIT event RuleData: extra data of rule in readable form (UTF-8): Add/update descriptor: new descriptor in hex-string.

e.g. "050443554549" Remove descriptor: descriptor tag in 2-character hex. e.g. "05"

Definition at line 8483 of file DCM.idl.

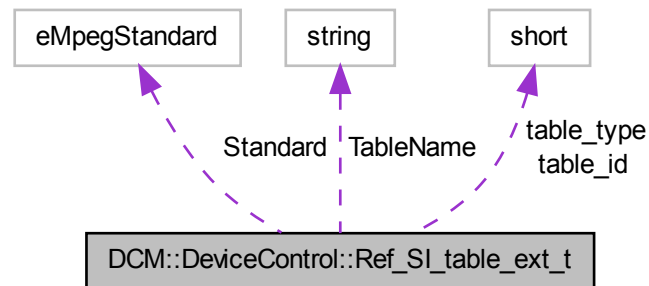
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.354 DCM::DeviceControl::Ref\_SI\_table\_ext\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Ref\_SI\_table\_ext\_t:



#### Public Attributes

- [eMpegStandard](#) `Standard`
- unsigned short `table_id`
- unsigned short `table_type`
- string `TableName`

#### 10.354.1 Detailed Description

Definition at line 2659 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

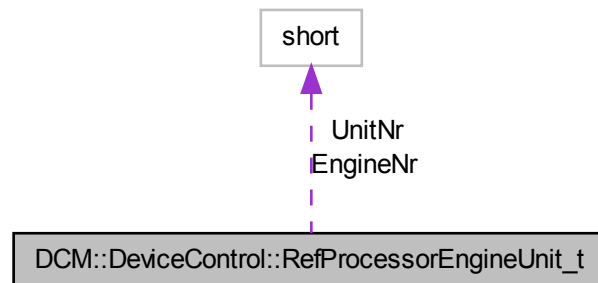
- [DCM.idl](#)

### 10.355 DCM::DeviceControl::RefProcessorEngineUnit\_t Struct Reference

Identify a processing engine unit of a processor board.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::RefProcessorEngineUnit\_t:



#### Public Attributes

- unsigned short [EngineNr](#)  
*The processing engine.*
- unsigned short [UnitNr](#)  
*The unit within a processing engine.*

#### 10.355.1 Detailed Description

Identify a processing engine unit of a processor board.

Definition at line 10328 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

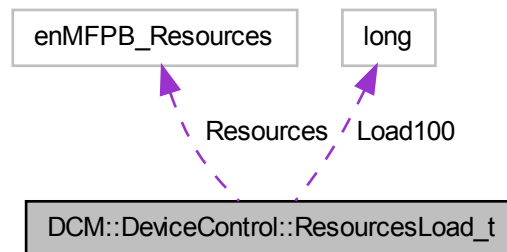
#### 10.356 DCM::DeviceControl::ResourcesLoad\_t Struct Reference

Resource loads.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::ResourcesLoad\_t:



#### Public Attributes

- [enMFPB\\_Resources Resources](#)

*The type of resources.*

- unsigned long [Load100](#)

*The relative load of resources times 100. If the value is 3456, the load is 34.56%.*

#### 10.356.1 Detailed Description

Resource loads.

#### Version

Release 10.10

Definition at line 10307 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

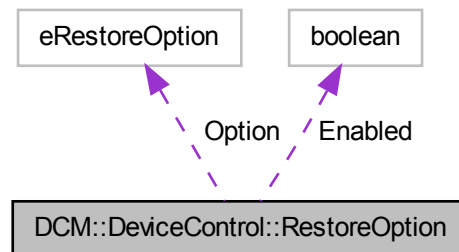
- [DCM.idl](#)

#### 10.357 DCM::DeviceControl::RestoreOption Struct Reference

Single settings restore option.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::RestoreOption:



#### Public Attributes

- [eRestoreOption Option](#)  
*Which option.*
- `boolean` [Enabled](#)  
*Should the option be used.*

#### 10.357.1 Detailed Description

Single settings restore option.

Definition at line 21476 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

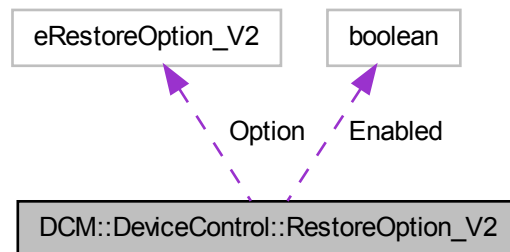
- [DCM.idl](#)

### 10.358 DCM::DeviceControl::RestoreOption\_V2 Struct Reference

Single settings restore option.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::RestoreOption\_V2:



#### Public Attributes

- [eRestoreOption\\_V2 Option](#)  
*Which option.*
- [boolean Enabled](#)  
*Should the option be used.*

#### 10.358.1 Detailed Description

Single settings restore option.

Definition at line 21688 of file DCM.idl.

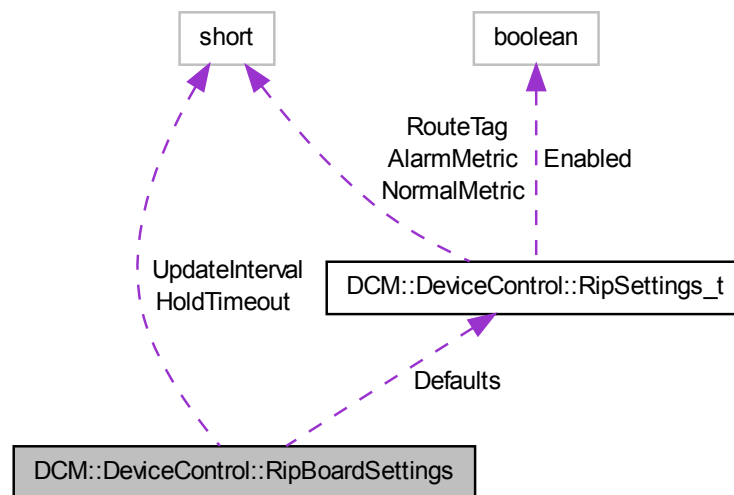
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.359 DCM::DeviceControl::RipBoardSettings Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::RipBoardSettings:



### Public Attributes

- [RipSettings\\_t Defaults](#)
- unsigned short [UpdateInterval](#)  
*Update interval for RIP messages. Effective interval. Range [1, 300], default 30.*
- unsigned short [HoldTimeout](#)  
*Time to keep advertising alarm metric after TS Loss cleared or TS removed/stopped streaming. Range[1, 1800], default 180.*

### 10.359.1 Detailed Description

Definition at line 31932 of file DCM.idl.

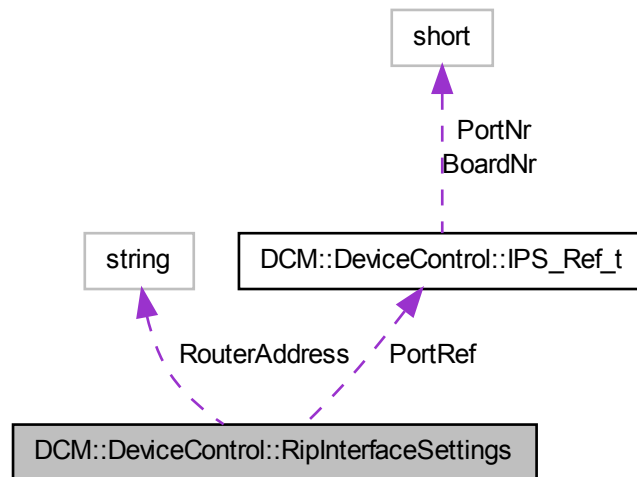
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.360 DCM::DeviceControl::RipInterfaceSettings Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::RipInterfaceSettings:



#### Public Attributes

- [IPS\\_Ref\\_t PortRef](#)  
*PhysRef of physical/virtual interface.*
- string [RouterAddress](#)  
*Router address, one of [224.0.0.9, 224.0.0.2, 255.255.255.255, unicast address in subnet], default 224.0.0.-9.*

#### 10.360.1 Detailed Description

Definition at line 31962 of file DCM.idl.

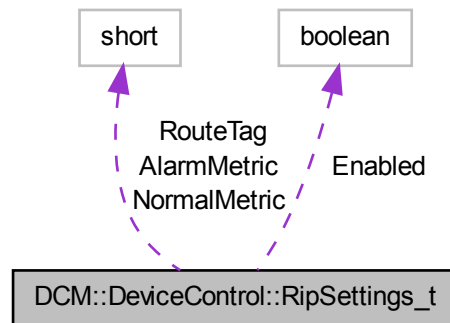
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.361 DCM::DeviceControl::RipSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::RipSettings\_t:



### Public Attributes

- boolean [Enabled](#)  
*Whether RIP is enabled by default for new TS's.*
- unsigned short [NormalMetric](#)  
*RIP metric to be advertised when TS is streaming and in good shape. Range [1,16], default 1.*
- unsigned short [AlarmMetric](#)  
*RIP metric to be advertised when TS is not streaming or in bad shape. Range [1,16], default 16.*
- unsigned short [RouteTag](#)  
*Value for the Route tag field. Range [0, 65535], default 0.*

### 10.361.1 Detailed Description

Definition at line 31924 of file DCM.idl.

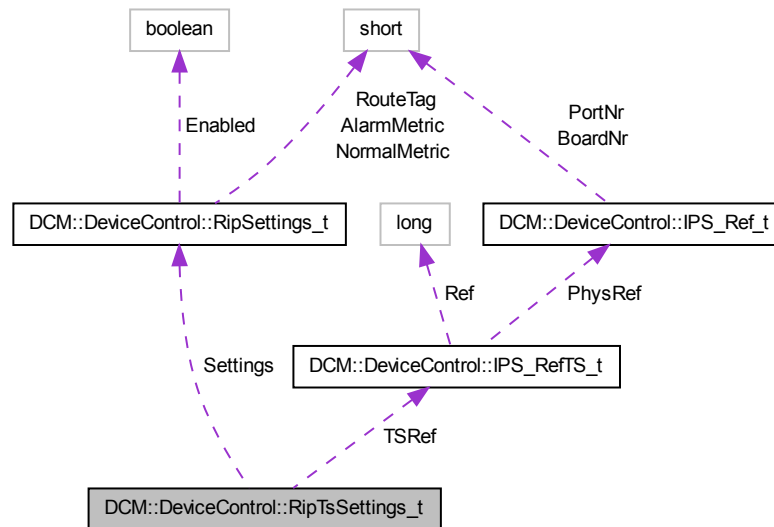
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.362 DCM::DeviceControl::RipTsSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::RipTsSettings\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t TSRef](#)  
*TSRef of TS.*
- [RipSettings\\_t Settings](#)

#### 10.362.1 Detailed Description

Definition at line 31997 of file DCM.idl.

The documentation for this struct was generated from the following file:

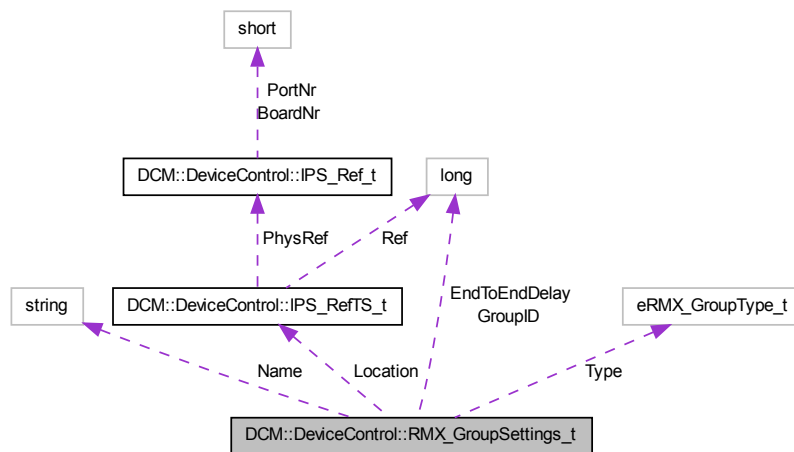
- [DCM.idl](#)

### 10.363 DCM::DeviceControl::RMX\_GroupSettings\_t Struct Reference

Realignment Mux group settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::RMX\_GroupSettings\_t:



## Public Attributes

- [RMX\\_GroupID\\_t GroupID](#)  
*ID of the group: read-only, ignored during creation.*
- [string Name](#)  
*Name: writable, the same name may be used multiple times, it exists only for user ref. Not used internally by the DCM. Name length limited to 32 characters.*
- [eRMX\\_GroupType\\_t Type](#)  
*Type of group: write-once on creation, read-only after creation.*
- [IPS\\_RefTS\\_t Location](#)  
*Location of group (depends on Type: can be TS or Port only): write-once on creation, read-only after creation. REQUIREMENT: Should be a port for group type MultiTS and be a TS for the other group types.*
- [unsigned long EndToEndDelay](#)  
*The actual end-to-end delay that the remote statmux service using realignment muxing will have. This is the maximal network delay that can be compensated for between any of the encoders of the realignment group and the remux device across the network. In milliseconds. Range: from 150ms to 1000ms.*

### 10.363.1 Detailed Description

Realignment Mux group settings.

Definition at line 15634 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

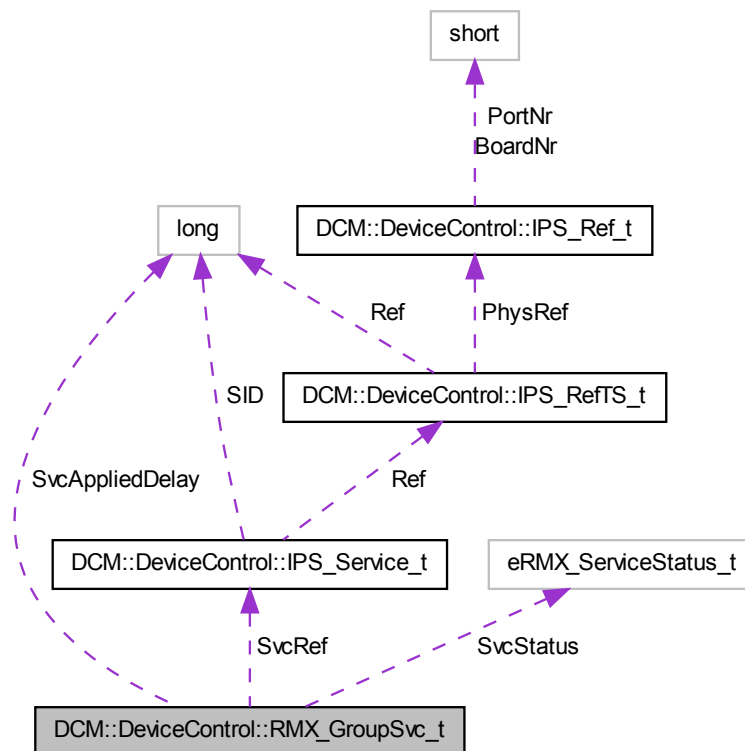


## 10.364 DCM::DeviceControl::RMX\_GroupSvc\_t Struct Reference

A service that is part of a Realignment Mux group.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::RMX\_GroupSvc\_t:



## Public Attributes

- [IPS\\_Service\\_t SvcRef](#)

*The reference of the service.*

- [eRMX\\_ServiceStatus\\_t SvcStatus](#)

*The status of the RMX'ed service. < Read-only. Filled in when service is retrieved.*

- long [SvcAppliedDelay](#)

*The applied delay of the RMX'ed service in millisecs. Read-only. Filled in when service is retrieved. To be ignored if service has status Blocked\_NoMarkers. Takes on a negative value if the service has status Blocked\_NegativeDelay, and a non-negative one if service has status Passed\_Delayed. The magnitude of negative Applied Delay indicates how much the end-to-end delay should be increased.*

### 10.364.1 Detailed Description

A service that is part of a Realignment Mux group.

Definition at line 15713 of file DCM.idl.

The documentation for this struct was generated from the following file:

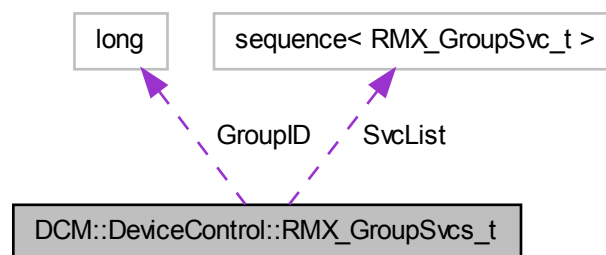
- [DCM.idl](#)

## 10.365 DCM::DeviceControl::RMX\_GroupSvcs\_t Struct Reference

A set of services belonging to the same Realignment Mux group.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::RMX\_GroupSvcs\_t:



### Public Attributes

- [RMX\\_GroupID\\_t GroupID](#)  
*The group reference. The group should already exist.*
- [RMX\\_GroupSvc\\_List\\_t SvcList](#)  
*sequence of services*

### 10.365.1 Detailed Description

A set of services belonging to the same Realignment Mux group.

Definition at line 15734 of file DCM.idl.

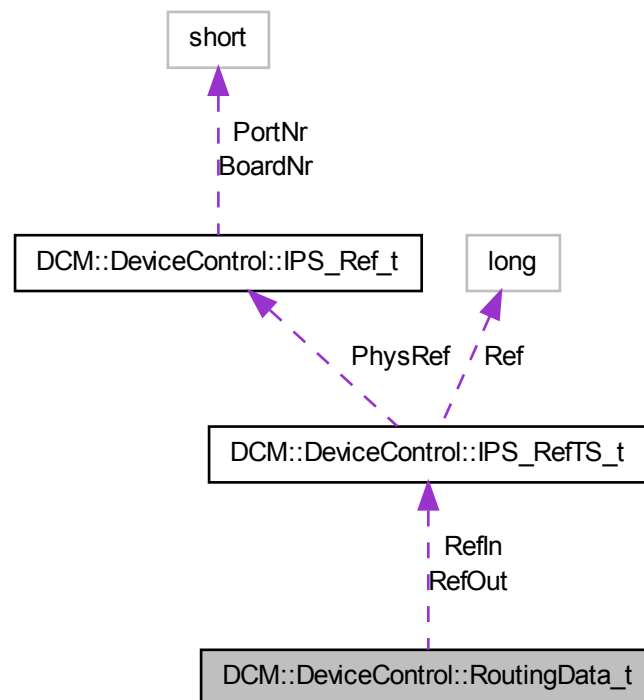
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.366 DCM::DeviceControl::RoutingData\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::RoutingData\_t:

**Public Attributes**

- [IPS\\_RefTS\\_t RefOut](#)
- [IPS\\_RefTS\\_t RefIn](#)

## 10.366.1 Detailed Description

Definition at line 30151 of file DCM.idl.

The documentation for this struct was generated from the following file:

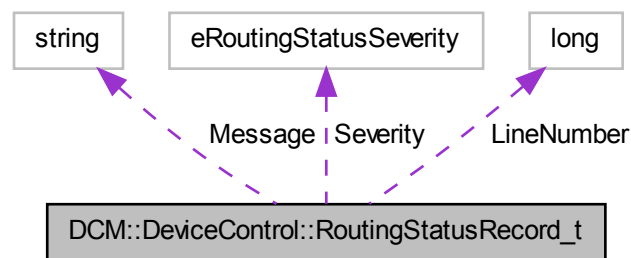
- [DCM.idl](#)

## 10.367 DCM::DeviceControl::RoutingStatusRecord\_t Struct Reference

Structure that contains information about one error that occurred during routing file upload (pre-config - IPS\_ProcessRoutingFile)

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::RoutingStatusRecord\_t:



### Public Attributes

- long [LineNumber](#)  
*Line number on which error occurred.*
- [eRoutingStatusSeverity](#) [Severity](#)  
*Warning, Error, Fatal.*
- string [Message](#)  
*Text description of the error.*

### 10.367.1 Detailed Description

Structure that contains information about one error that occurred during routing file upload (pre-config - IPS\_ProcessRoutingFile)

Definition at line 2799 of file DCM.idl.

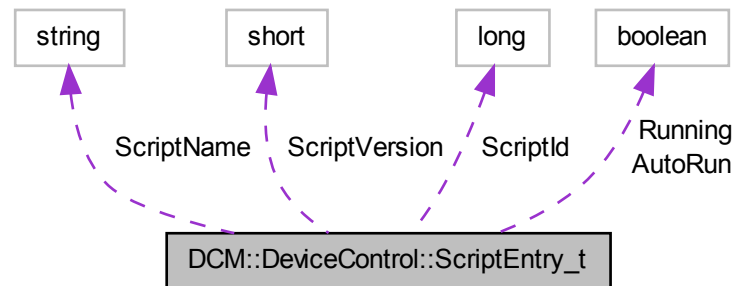
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.368 DCM::DeviceControl::ScriptEntry\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ScriptEntry\_t:



#### Public Attributes

- unsigned long [ScriptId](#)  
*The Id assigned to this script.*
- string [ScriptName](#)  
*The unique name of the script.*
- unsigned short [ScriptVersion](#)  
*The version of the script, several versions of the same script can be installed.*
- boolean [Running](#)  
*Whether script is currently running.*
- boolean [AutoRun](#)  
*Whether the script will be automatically run on startup.*

#### 10.368.1 Detailed Description

Definition at line 31752 of file DCM.idl.

The documentation for this struct was generated from the following file:

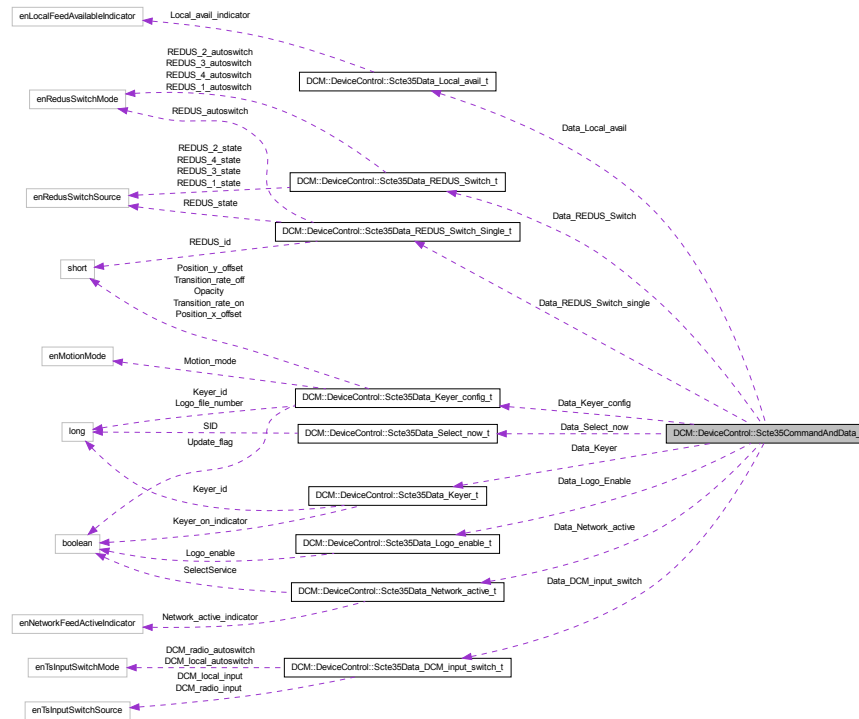
- [DCM.idl](#)

## 10.369 DCM::DeviceControl::Scte35CommandAndData\_t Union Reference

Union containing data structures of SCTE-35 commands.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Scte35CommandAndData\_t:



## Public Attributes

- [Scte35Data\\_REDUS\\_Switch\\_t](#) `Data_REDUS_Switch`
- [Scte35Data\\_DCM\\_input\\_switch\\_t](#) `Data_DCM_input_switch`
- [Scte35Data\\_Select\\_now\\_t](#) `Data_Select_now`
- [Scte35Data\\_Network\\_active\\_t](#) `Data_Network_active`
- [Scte35Data\\_Local\\_avail\\_t](#) `Data_Local_avail`
- [Scte35Data\\_Keyer\\_t](#) `Data_Keyer`
- [Scte35Data\\_Keyer\\_config\\_t](#) `Data_Keyer_config`
- [Scte35Data\\_Logo\\_enable\\_t](#) `Data_Logo_Enable`
- [Scte35Data\\_REDUS\\_Switch\\_Single\\_t](#) `Data_REDUS_Switch_single`

### 10.369.1 Detailed Description

Union containing data structures of SCTE-35 commands.

Definition at line 8677 of file `DCM.idl`.

The documentation for this union was generated from the following file:

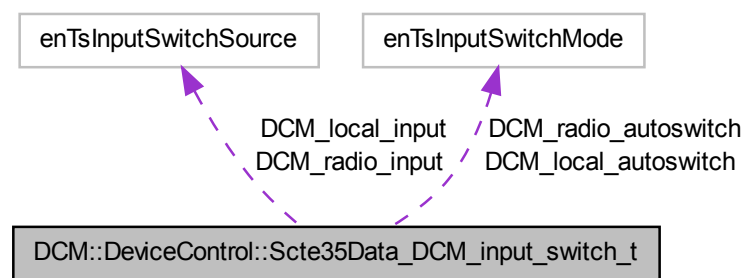
- [DCM.idl](#)

## 10.370 DCM::DeviceControl::Scte35Data\_DCM\_input\_switch\_t Struct Reference

The data struct for SCTE-35 command eDCM\_input\_switch.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Scte35Data\_DCM\_input\_switch\_t:



### Public Attributes

- [enTsInputSwitchSource](#) [DCM\\_radio\\_input](#)
- [enTsInputSwitchMode](#) [DCM\\_radio\\_autoswitch](#)
- [enTsInputSwitchSource](#) [DCM\\_local\\_input](#)
- [enTsInputSwitchMode](#) [DCM\\_local\\_autoswitch](#)

### 10.370.1 Detailed Description

The data struct for SCTE-35 command eDCM\_input\_switch.

Definition at line 8622 of file DCM.idl.

The documentation for this struct was generated from the following file:

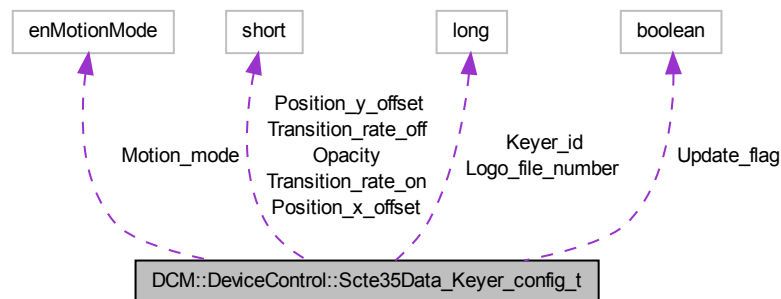
- [DCM.idl](#)

## 10.371 DCM::DeviceControl::Scte35Data\_Keyer\_config\_t Struct Reference

The data struct for SCTE-35 command eKeyer\_config.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Scte35Data\_Keyer\_config\_t:



### Public Attributes

- unsigned long [Keyer\\_id](#)
- unsigned long [Logo\\_file\\_number](#)
- [enMotionMode](#) [Motion\\_mode](#)
- boolean [Update\\_flag](#)
- unsigned short [Position\\_x\\_offset](#)
- unsigned short [Position\\_y\\_offset](#)
- unsigned short [Transition\\_rate\\_on](#)
- unsigned short [Transition\\_rate\\_off](#)
- unsigned short [Opacity](#)

#### 10.371.1 Detailed Description

The data struct for SCTE-35 command eKeyer\_config.

Definition at line 8657 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

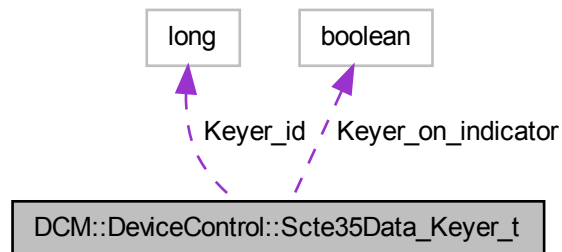
### 10.372 DCM::DeviceControl::Scte35Data\_Keyer\_t Struct Reference

The data struct for SCTE-35 command eKeyer\_on\_or\_off.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::Scte35Data\_Keyer\_t:



#### Public Attributes

- unsigned long [Keyer\\_id](#)
- boolean [Keyer\\_on\\_indicator](#)

#### 10.372.1 Detailed Description

The data struct for SCTE-35 command `eKeyer_on_or_off`.

Definition at line 8650 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

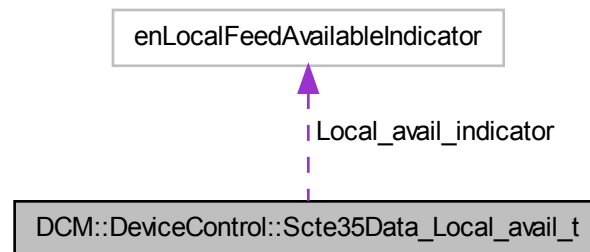
- [DCM.idl](#)

### 10.373 DCM::DeviceControl::Scte35Data\_Local\_avail\_t Struct Reference

The data struct for SCTE-35 command `eLocal_avail_enable_or_disable`.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Scte35Data\_Local\_avail\_t:



#### Public Attributes

- [enLocalFeedAvailableIndicator Local\\_avail\\_indicator](#)

#### 10.373.1 Detailed Description

The data struct for SCTE-35 command `eLocal_avail_enable_or_disable`.

Definition at line 8644 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

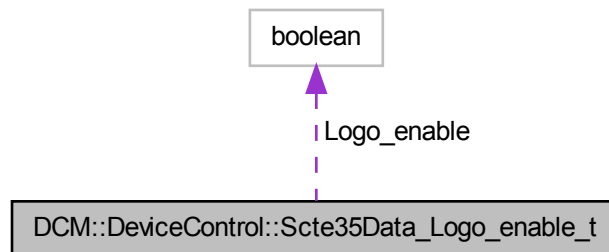
- [DCM.idl](#)

#### 10.374 DCM::DeviceControl::Scte35Data\_Logo\_enable\_t Struct Reference

The data struct for SCTE-35 command `eLogo_enable_or_disable`.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Scte35Data\_Logo\_enable\_t:



#### Public Attributes

- boolean [Logo\\_enable](#)

#### 10.374.1 Detailed Description

The data struct for SCTE-35 command `eLogo_enable_or_disable`.

Definition at line 8671 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

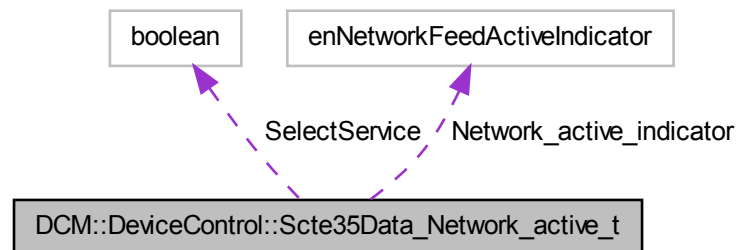
- [DCM.idl](#)

#### 10.375 DCM::DeviceControl::Scte35Data\_Network\_active\_t Struct Reference

The data struct for SCTE-35 command `eNetwork_feed_active_or_inactive`.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Scte35Data\_Network\_active\_t:



#### Public Attributes

- `enNetworkFeedActiveIndicator` `Network_active_indicator`
- `boolean` `SelectService`

#### 10.375.1 Detailed Description

The data struct for SCTE-35 command `eNetwork_feed_active_or_inactive`.

Definition at line 8637 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

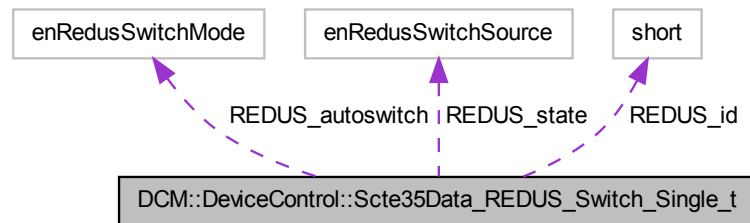
- [DCM.idl](#)

#### 10.376 DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_Single\_t Struct Reference

The data struct for SCTE-35 command `eREDUS_switch_single`.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_Single\_t:



#### Public Attributes

- unsigned short [REDUS\\_id](#)
- [enRedusSwitchSource](#) [REDUS\\_state](#)
- [enRedusSwitchMode](#) [REDUS\\_autoswitch](#)

#### 10.376.1 Detailed Description

The data struct for SCTE-35 command `eREDUS_switch_single`.

Definition at line 8614 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

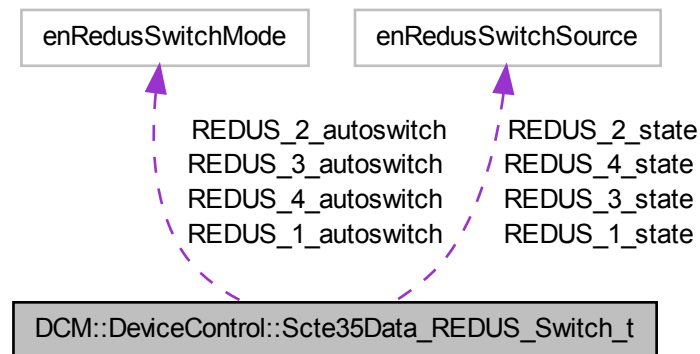
- [DCM.idl](#)

#### 10.377 DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_t Struct Reference

The data struct for SCTE-35 command `eREDUS_switch`.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Scte35Data\_REDUS\_Switch\_t:



#### Public Attributes

- [enRedusSwitchSource REDUS\\_1\\_state](#)
- [enRedusSwitchMode REDUS\\_1\\_autoswitch](#)
- [enRedusSwitchSource REDUS\\_2\\_state](#)
- [enRedusSwitchMode REDUS\\_2\\_autoswitch](#)
- [enRedusSwitchSource REDUS\\_3\\_state](#)
- [enRedusSwitchMode REDUS\\_3\\_autoswitch](#)
- [enRedusSwitchSource REDUS\\_4\\_state](#)
- [enRedusSwitchMode REDUS\\_4\\_autoswitch](#)

#### 10.377.1 Detailed Description

The data struct for SCTE-35 command eREDUS\_switch.

Definition at line 8601 of file DCM.idl.

The documentation for this struct was generated from the following file:

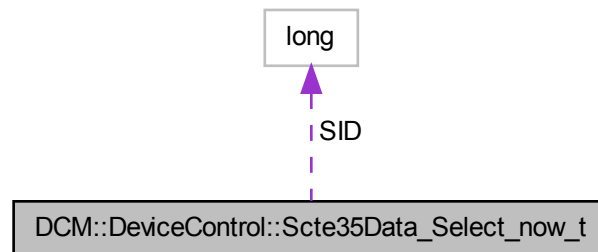
- [DCM.idl](#)

#### 10.378 DCM::DeviceControl::Scte35Data\_Select\_now\_t Struct Reference

The data struct for SCTE-35 command eSelect\_now.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Scte35Data\_Select\_now\_t:



#### Public Attributes

- unsigned long [SID](#)  
*A.k.a. Program number.*

#### 10.378.1 Detailed Description

The data struct for SCTE-35 command `eSelect_now`.

Definition at line 8631 of file `DCM.idl`.

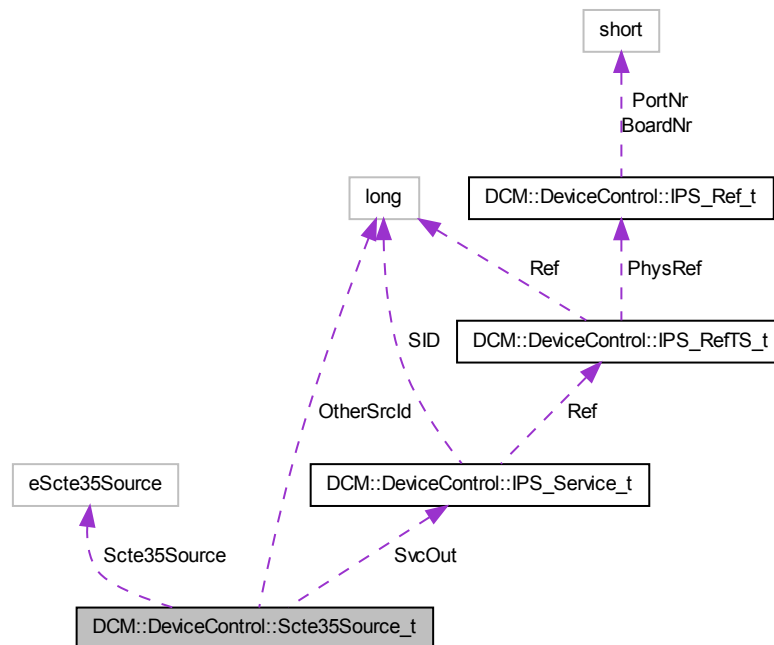
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.379 DCM::DeviceControl::Scte35Source\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Scte35Source\_t:



### Public Attributes

- [IPS\\_Service\\_t SvcOut](#)
- [eScte35Source Scte35Source](#)  
*The source of which the SCTE35 messages < should be processed.*
- [AlternateSrcId\\_t OtherSrcId](#)  
*the ID of this alternate source, < if Scte35Source == other*

### 10.379.1 Detailed Description

Definition at line 17817 of file DCM.idl.

The documentation for this struct was generated from the following file:

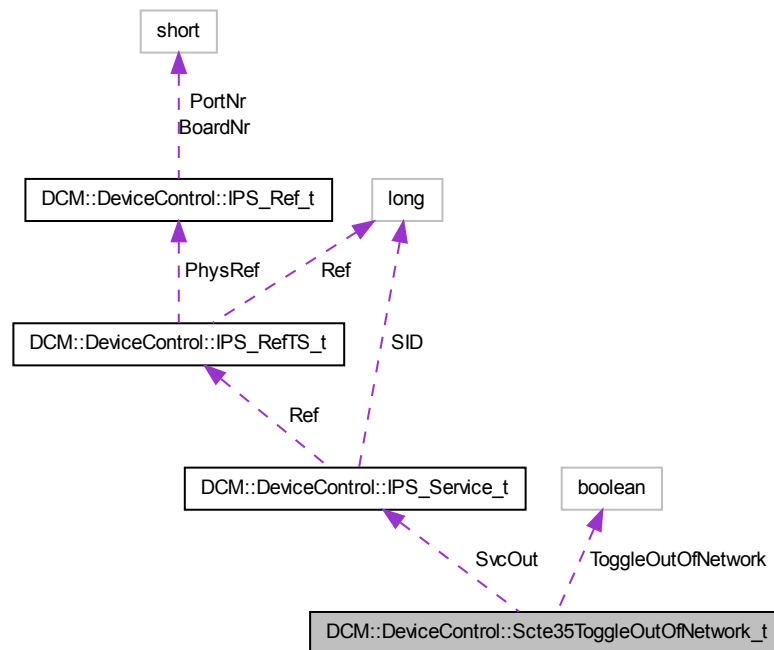
- [DCM.idl](#)

## 10.380 DCM::DeviceControl::Scte35ToggleOutOfNetwork\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::Scte35ToggleOutOfNetwork\_t:



### Public Attributes

- [IPS\\_Service\\_t SvcOut](#)
- boolean [ToggleOutOfNetwork](#)

*Set to True if the out\_of\_network\_indicator bit should be toggled.*

#### 10.380.1 Detailed Description

Definition at line 17856 of file DCM.idl.

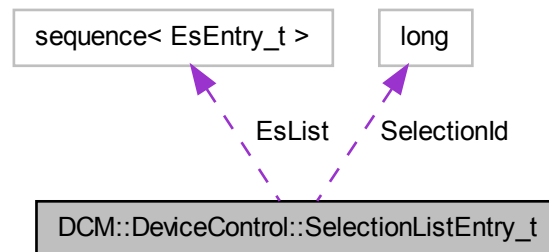
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.381 DCM::DeviceControl::SelectionListEntry\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SelectionListEntry\_t:



#### Public Attributes

- [SelectionId\\_t SelectionId](#)
- [EsList\\_t EsList](#)

#### 10.381.1 Detailed Description

Definition at line 12878 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

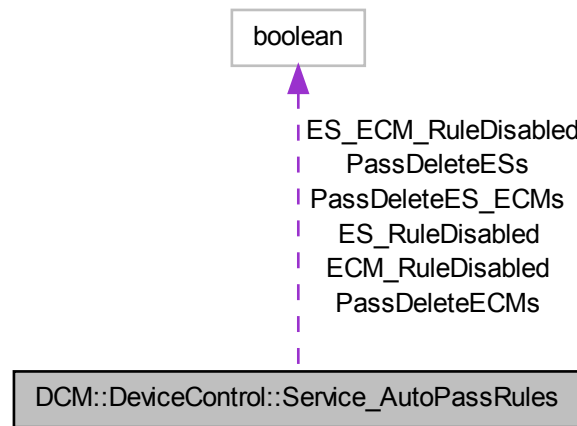
- [DCM.idl](#)

## 10.382 DCM::DeviceControl::Service\_AutoPassRules Struct Reference

Service component behaviour.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Service\_AutoPassRules:



### Public Attributes

- boolean [PassDeleteESs](#)  
*read-write; true = ESs are auto passed/deleted; false = block of ESs; default true*
- boolean [PassDeleteECMs](#)  
*read-write; true = ECMs are auto passed/deleted; false = block of ECMs; default true*
- boolean [PassDeleteES\\_ECMs](#)  
*read-write; true = ES\_ECMs are auto passed/deleted; false = block of ES\_ECMs*
- boolean [ES\\_RuleDisabled](#)  
*read-only; true = ES rule is disabled and PassDeleteESs cannot be changed by the user; false = PassDeleteESs can be configured by the user;*
- boolean [ECM\\_RuleDisabled](#)  
*read-only; true = ECM rule is disabled and PassDeleteECMs cannot be changed by the user; false = PassDeleteECMs can be configured by the user;*
- boolean [ES\\_ECM\\_RuleDisabled](#)  
*read-only; true = ES\_ECM rule is disabled and PassDeleteES\_ECMs cannot be changed by the user; false = PassDeleteES\_ECMs can be configured by the user;*

### 10.382.1 Detailed Description

Service component behaviour.

Definition at line 2887 of file DCM.idl.

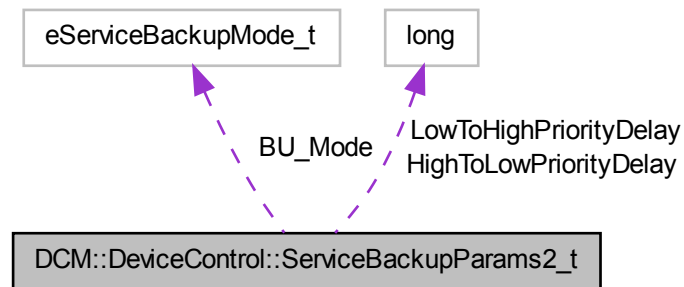
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.383 DCM::DeviceControl::ServiceBackupParams2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ServiceBackupParams2\_t:



#### Public Attributes

- `eServiceBackupMode_t` `BU_Mode`
- unsigned long `HighToLowPriorityDelay`
- unsigned long `LowToHighPriorityDelay`

#### 10.383.1 Detailed Description

Definition at line 23094 of file `DCM.idl`.

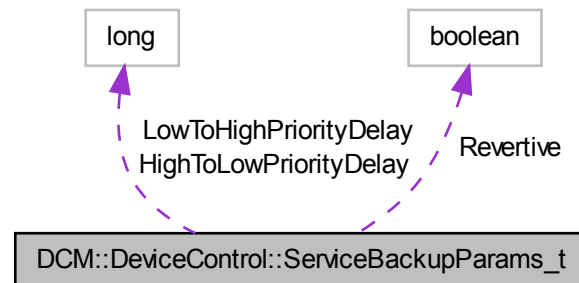
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.384 DCM::DeviceControl::ServiceBackupParams\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ServiceBackupParams\_t:



#### Public Attributes

- boolean [Revertive](#)
- unsigned long [HighToLowPriorityDelay](#)  
*time in seconds to wait before switching to backup*
- unsigned long [LowToHighPriorityDelay](#)  
*time in seconds to wait before switching back to main input*

#### 10.384.1 Detailed Description

Definition at line 23040 of file DCM.idl.

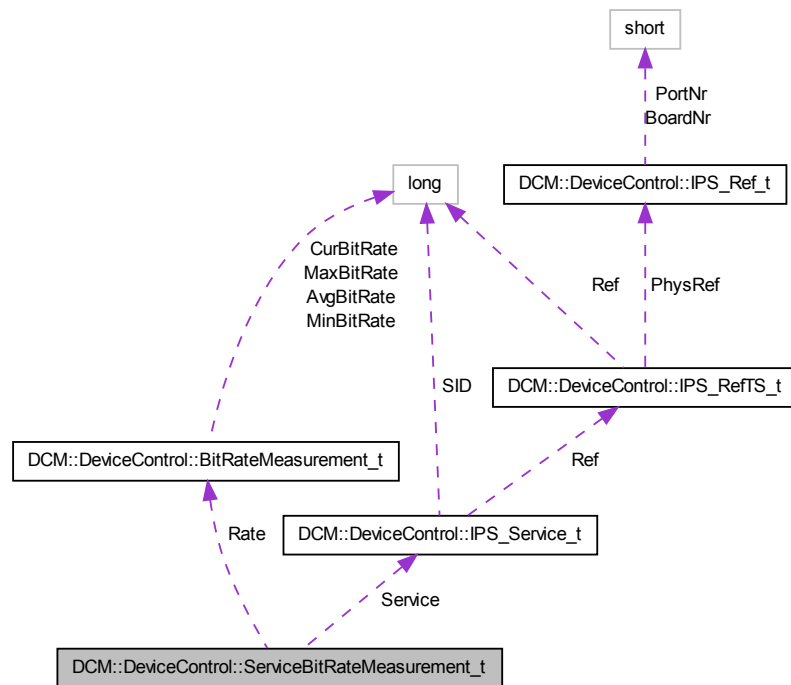
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.385 DCM::DeviceControl::ServiceBitRateMeasurement\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ServiceBitRateMeasurement\_t:



### Public Attributes

- [IPS\\_Service\\_t Service](#)
- [BitRateMeasurement\\_t Rate](#)

#### 10.385.1 Detailed Description

Definition at line 9797 of file DCM.idl.

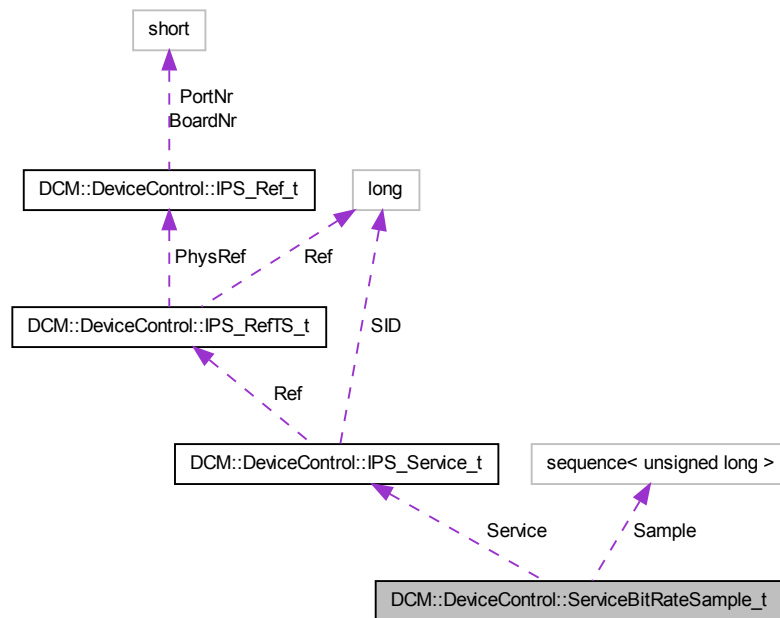
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.386 DCM::DeviceControl::ServiceBitRateSample\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ServiceBitRateSample\_t:



#### Public Attributes

- [IPS\\_Service\\_t Service](#)
- [BitRateSampleList\\_t Sample](#)

#### 10.386.1 Detailed Description

Definition at line 9837 of file DCM.idl.

The documentation for this struct was generated from the following file:

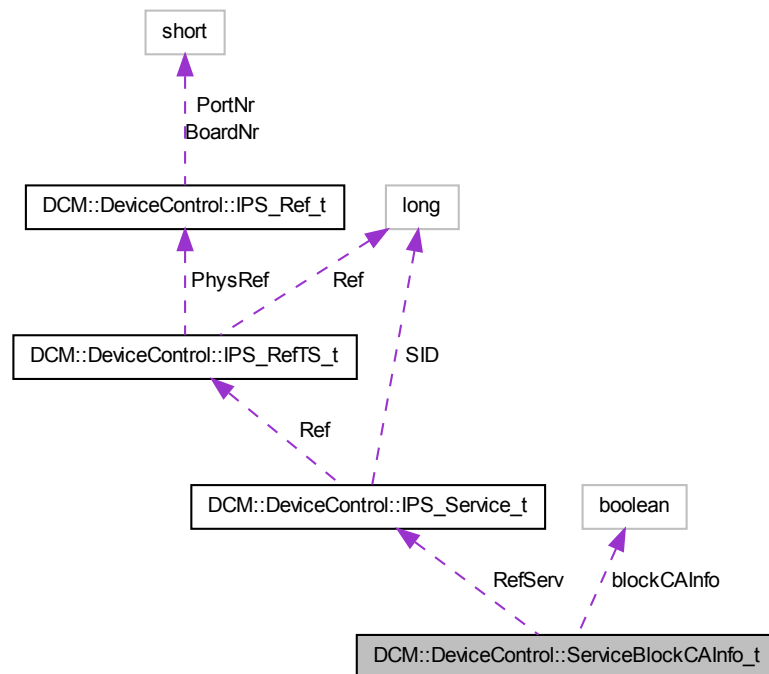
- [DCM.idl](#)

#### 10.387 DCM::DeviceControl::ServiceBlockCAInfo\_t Struct Reference

Outgoing service information.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ServiceBlockCAInfo\_t:



### Public Attributes

- [IPS\\_Service\\_t RefServ](#)
- boolean [blockCAInfo](#)

*Indicates if the CA info needs to be blocked for the service. If true, the EIT, SDT and PMT table is updated and ECM components are blocked.*

### 10.387.1 Detailed Description

Outgoing service information.

Definition at line 4987 of file DCM.idl.

The documentation for this struct was generated from the following file:

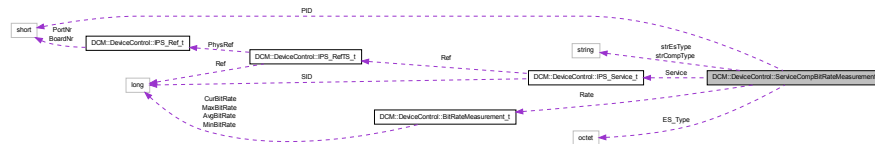
- [DCM.idl](#)

## 10.388 DCM::DeviceControl::ServiceCompBitRateMeasurement\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::ServiceCompBitRateMeasurement\_t:



## Public Attributes

- [IPS\\_Service\\_t](#) Service
- unsigned short [PID](#)
- string [strCompType](#)  
*PMT, ES, ES\_ECM, ECM.*
- octet [ES\\_Type](#)  
*dvb streamtype.*
- string [strEsType](#)  
*Interpretation of Es\_Type in regard to m\_EsTypeStandard of the TS. Read only.*
- [BitRateMeasurement\\_t](#) Rate

### 10.388.1 Detailed Description

Definition at line 9817 of file DCM.idl.

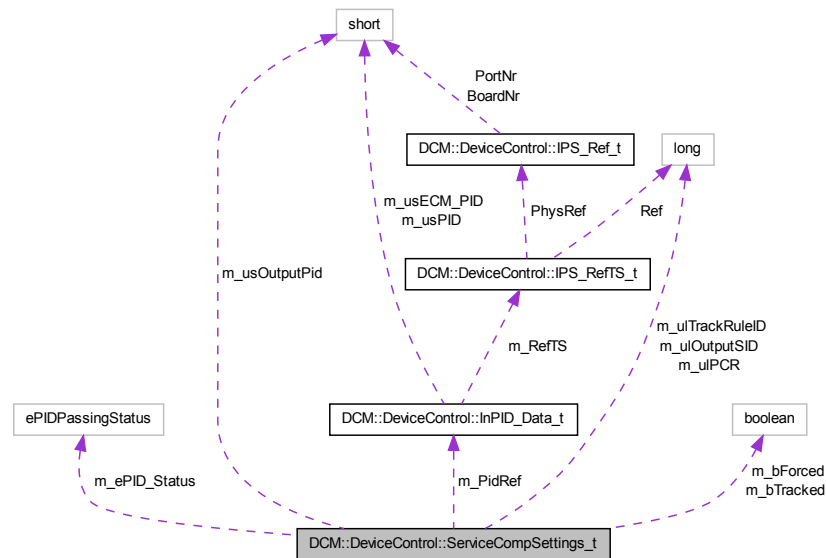
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.389 DCM::DeviceControl::ServiceCompSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ServiceCompSettings\_t:



## Public Attributes

- unsigned long [m\\_ulOutputSID](#)  
*Output service ID value. Will be ignored if INVALID\_SID\_VALUE.*
- unsigned long [m\\_ulPCR](#)  
*1 means (un)block the PCR PID in this service (other information will be ignored).*
- [InPID\\_Data\\_t m\\_PidRef](#)  
*Reference to the input pid to be blocked.*
- [ePIDPassingStatus m\\_ePID\\_Status](#)  
*The new passing status.*
- unsigned short [m\\_usOutputPid](#)
- boolean [m\\_bForced](#)
- boolean [m\\_bTracked](#)
- unsigned long [m\\_ulTrackRuleID](#)

### 10.389.1 Detailed Description

Definition at line 5740 of file DCM.idl.

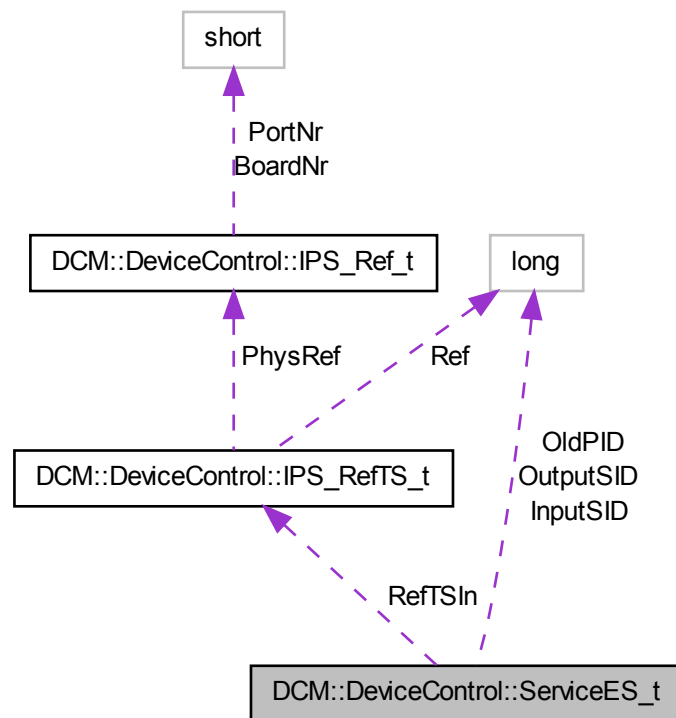
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.390 DCM::DeviceControl::ServiceES\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ServiceES\_t:



## Public Attributes

- unsigned long [OutputSID](#)
- [IPS\\_RefTS\\_t](#) [RefTSIn](#)
- unsigned long [InputSID](#)
- long [OldPID](#)

## 10.390.1 Detailed Description

Definition at line 5863 of file `DCM.idl`.

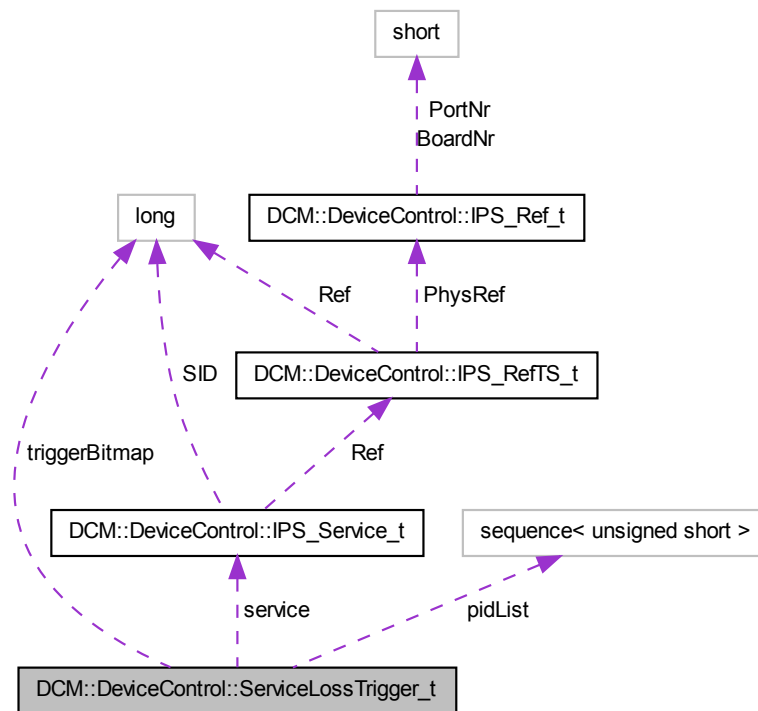
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.391 DCM::DeviceControl::ServiceLossTrigger\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ServiceLossTrigger\_t:



## Public Attributes

- [IPS\\_Service\\_t service](#)
- [TriggerBitmap\\_t triggerBitmap](#)
- [PID\\_List\\_t pidList](#)

*PID range: 0..8190, List of pids to monitor: only evaluated in case bit 6 in the TriggerBitmap\_t is set.*

## 10.391.1 Detailed Description

Definition at line 20844 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

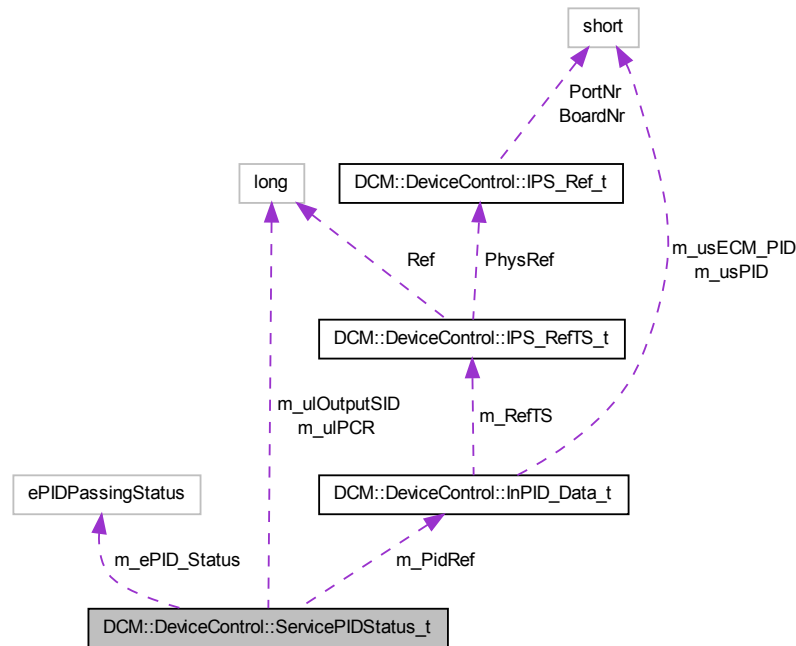
- [DCM.idl](#)

## 10.392 DCM::DeviceControl::ServicePIDStatus\_t Struct Reference

Identification of the service(s) to (un)block PIDs in.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::ServicePIDStatus\_t:



## Public Attributes

- [ePIDPassingStatus m\\_ePID\\_Status](#)  
*The new passing status.*
- unsigned long [m\\_ulOutputSID](#)  
*Output service ID value.*
- unsigned long [m\\_ulPCR](#)  
*1 means (un)block the PCR PID in this service (other information will be ignored).*
- [InPID\\_Data\\_t m\\_PidRef](#)  
*Reference to the input pid to be blocked.*

## 10.392.1 Detailed Description

Identification of the service(s) to (un)block PIDs in.

Will be replaced by [ServiceCompSettings\\_t](#)

Definition at line 5724 of file DCM.idl.

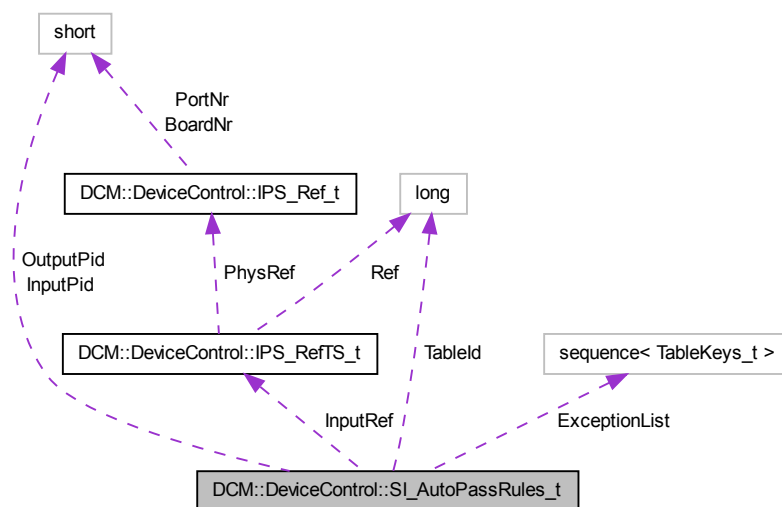
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.393 DCM::DeviceControl::SI\_AutoPassRules\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SI\_AutoPassRules\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t InputRef](#)  
*TS from which to auto-pass.*
- unsigned short [InputPid](#)  
*PID from which to auto-pass.*
- unsigned long [TableId](#)  
*TID to auto-pass - Use 0x4F for EITo p/f.*
- unsigned short [OutputPid](#)  
*PID on which to play out autopassed tables.*
- [TableKeys\\_List\\_t ExceptionList](#)  
*List of tables which will not be auto-passed.*

#### 10.393.1 Detailed Description

Definition at line 2901 of file DCM.idl.

The documentation for this struct was generated from the following file:

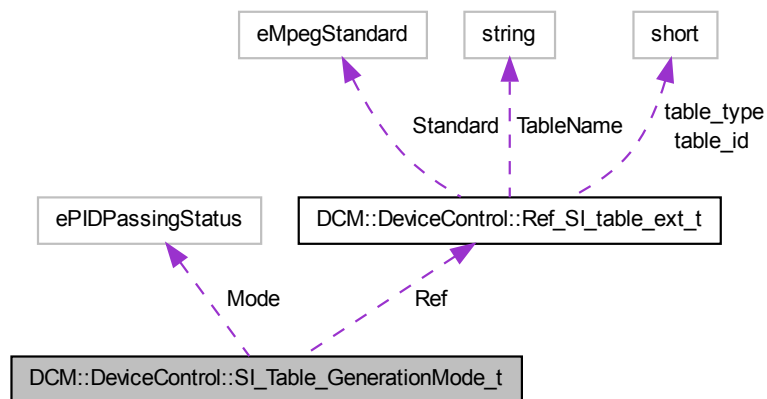
- [DCM.idl](#)

## 10.394 DCM::DeviceControl::SI\_Table\_GenerationMode\_t Struct Reference

Generation mode for SI tables.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SI\_Table\_GenerationMode\_t:



### Public Attributes

- [Ref\\_SI\\_table\\_ext\\_t](#) Ref
- [ePIDPassingStatus](#) Mode

### 10.394.1 Detailed Description

Generation mode for SI tables.

Definition at line 2736 of file DCM.idl.

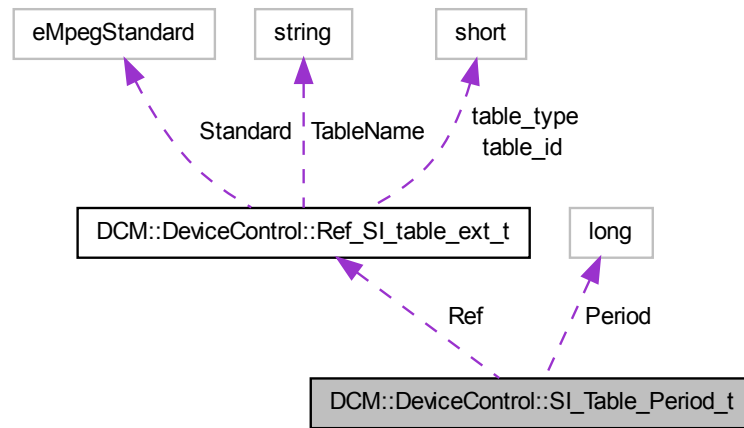
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.395 DCM::DeviceControl::SI\_Table\_Period\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SI\_Table\_Period\_t:



#### Public Attributes

- [Ref\\_SI\\_table\\_ext\\_t](#) [Ref](#)
- unsigned long [Period](#)

#### 10.395.1 Detailed Description

Definition at line 2728 of file DCM.idl.

The documentation for this struct was generated from the following file:

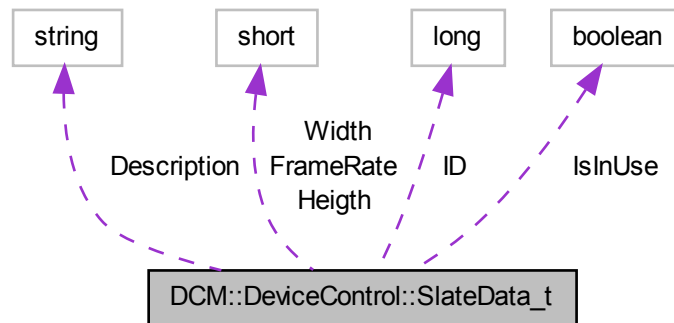
- [DCM.idl](#)

#### 10.396 DCM::DeviceControl::SlateData\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::SlateData\_t:



#### Public Attributes

- [ClipID\\_t ID](#)
- `string` [Description](#)
- unsigned short [Width](#)
- unsigned short [Height](#)
- unsigned short [FrameRate](#)
- `boolean` [IsInUse](#)

#### 10.396.1 Detailed Description

Definition at line 10078 of file `DCM.idl`.

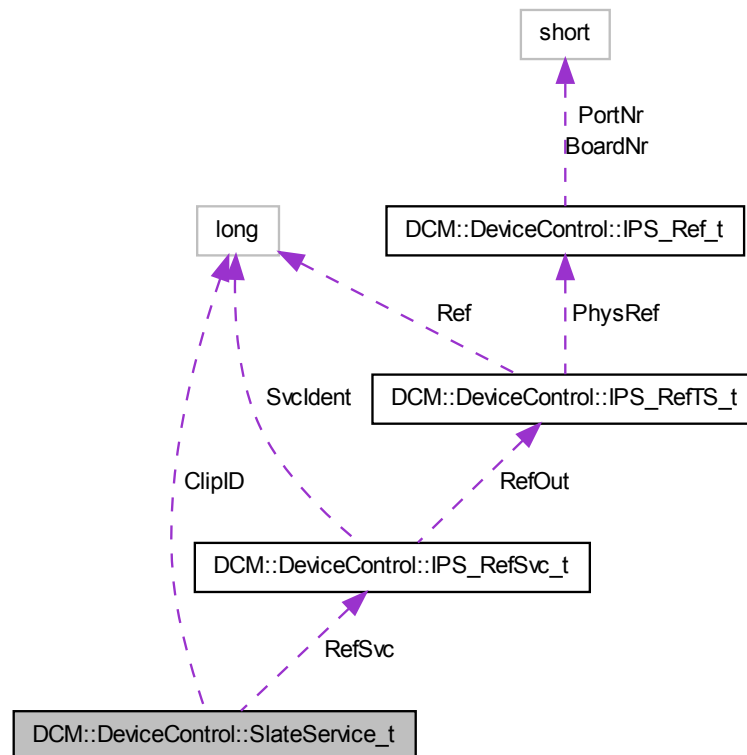
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.397 DCM::DeviceControl::SlateService\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SlateService\_t:



#### Public Attributes

- [IPS\\_RefSvc\\_t RefSvc](#)
- [ClipID\\_t ClipID](#)

#### 10.397.1 Detailed Description

Definition at line 16795 of file DCM.idl.

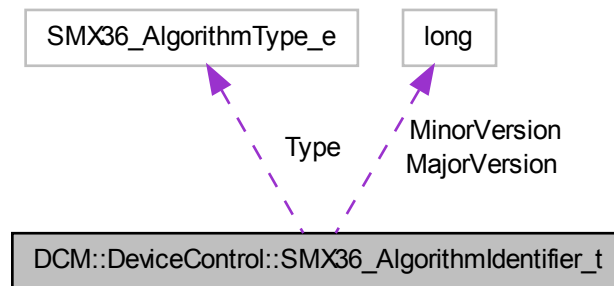
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.398 DCM::DeviceControl::SMX36\_AlgorithmIdentifier\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_AlgorithmIdentifier\_t:



#### Public Attributes

- [SMX36\\_AlgorithmType\\_e](#) [Type](#)  
*Algorithm Type.*
- unsigned long [MajorVersion](#)  
*Major version part: the xx out of Vxx.yy.*
- unsigned long [MinorVersion](#)  
*Minor version part: the yy out of Vxx.yy.*

#### 10.398.1 Detailed Description

Definition at line 23883 of file DCM.idl.

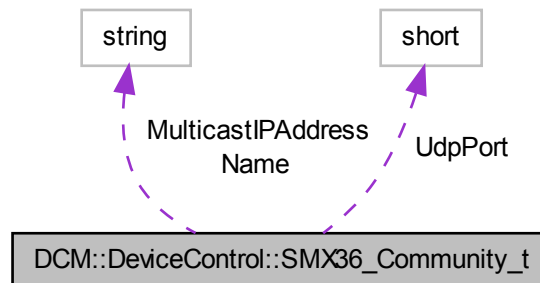
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.399 DCM::DeviceControl::SMX36\_Community\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_Community\_t:



#### Public Attributes

- string [Name](#)  
*Name of the statmux community MAX string length = 20.*
- string [MulticastIPAddress](#)  
*The Community multicast IP used by units to join the statmux community.*
- unsigned short [UdpPort](#)  
*Community communication port range: 1024 (0X400) .. 65535.*

#### 10.399.1 Detailed Description

Definition at line 23671 of file DCM.idl.

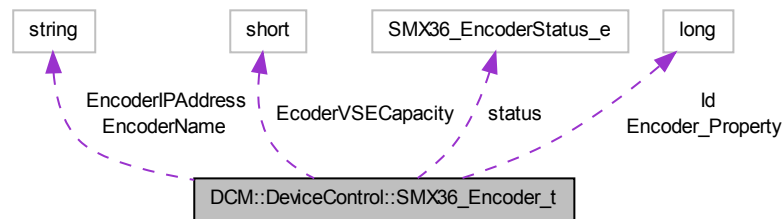
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.400 DCM::DeviceControl::SMX36\_Encoder\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_Encoder\_t:



### Public Attributes

- long [Id](#)  
*Encoder Id.*
- string [EncoderIPAddress](#)  
*RO IPaddress of the encoder management port.*
- string [EncoderName](#)  
*RO Name of the Encoder running. (MAX string length = 20)*
- unsigned short [EcoderVSECapacity](#)  
*RO The Maximum number of VSE the current encoder can handle.*
- [SMX36\\_EncoderStatus\\_e](#) [status](#)  
*RO Status of the Encoder (Read only).*
- unsigned long [Encoder\\_Property](#)  
*Read only Bitmap used by GUI to display specific icons.*

#### 10.400.1 Detailed Description

Definition at line 23934 of file DCM.idl.

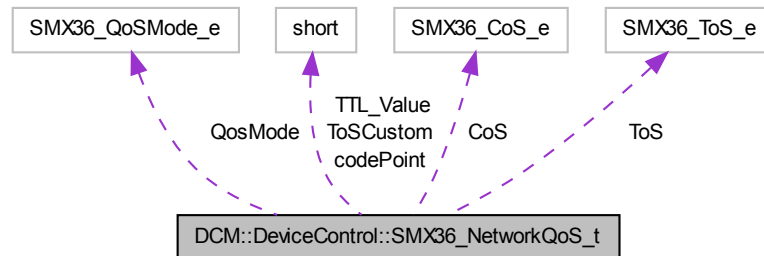
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.401 DCM::DeviceControl::SMX36\_NetworkQoS\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_NetworkQoS\_t:



### Public Attributes

- unsigned short [TTL\\_Value](#)  
*TTL (Time to live) range [1-255].*
- [SMX36\\_QoSMode\\_e](#) [QoSMode](#)  
*QoS Mode.*
- [SMX36\\_ToS\\_e](#) [ToS](#)  
*(mode ToS\_CoS\_Precedence) ToS value (not custom).*
- [SMX36\\_CoS\\_e](#) [CoS](#)  
*(mode ToS\_CoS\_Precedence) CoS value.*
- unsigned short [codePoint](#)  
*(mode Differentiated) Differentiated Service code Point range [0-255].*
- unsigned short [ToSCustom](#)  
*(mode Custom) ToS custom value range [0-255].*

### 10.401.1 Detailed Description

Definition at line 23640 of file DCM.idl.

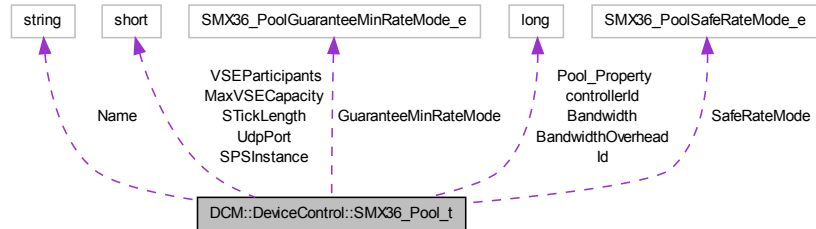
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.402 DCM::DeviceControl::SMX36\_Pool\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_Pool\_t:



## Public Attributes

- long [Id](#)  
*RO Pool Id.*
- string [Name](#)  
*Name of pool. MAX string length = 20.*
- unsigned short [UdpPort](#)  
*RO UDP Port used to communicate to the SPS.*
- unsigned long [controllerId](#)  
*RO Statmux controller Id of the board where the pool is running if allocated else 0.*
- unsigned short [VSEParticipants](#)  
*RO The number of VSE running in the pool.*
- unsigned long [Bandwidth](#)  
*(bps) The bandwidth of the pool (bps). Must be greather than BandwidthOverhead.*
- unsigned long [BandwidthOverhead](#)  
*(bps) Overhead/Free-space to the bandwidth used to prevent overshoot on a mux with a small input buffer. must be less that bandwidth*
- unsigned short [STickLength](#)  
*(ms) The S-Tick length of the pool.*
- unsigned short [MaxVSECapacity](#)  
*Maximum number of VSE's expected to be in the pool. range (1-24)*
- unsigned long [Pool\\_Property](#)  
*Read only Bitmap used by GUI to display specific icons.*
- [SMX36\\_PoolSafeRateMode\\_e](#) [SafeRateMode](#)  
*Safe rate mode defines the rate the VSE must fall back on if communication fails to statmux controller.*
- unsigned short [SPSInstance](#)  
*RO (Reserved) The instance number of the SPS where the pool is running if allocated else 0.*
- [SMX36\\_PoolGuaranteeMinRateMode\\_e](#) [GuaranteeMinRateMode](#)  
*Controls whether VSE's releases unused videobandwidth below the min rate to the rest of the pool when the video complexity is low.*

## 10.402.1 Detailed Description

Definition at line 23780 of file DCM.idl.

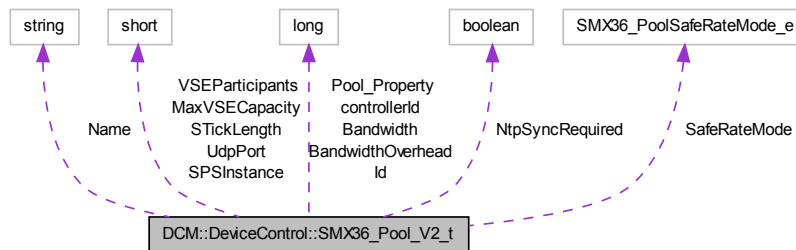
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.403 DCM::DeviceControl::SMX36\_Pool\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_Pool\_V2\_t:



## Public Attributes

- long [Id](#)  
*RO Pool Id.*
- string [Name](#)  
*Name of pool. MAX string length = 20.*
- unsigned short [UdpPort](#)  
*RO UDP Port used to communicate to the SPS.*
- unsigned long [controllerId](#)  
*RO Statmux controller Id of the board where the pool is running if allocated else 0.*
- unsigned short [VSEParticipants](#)  
*RO The number of VSE running in the pool.*
- unsigned long [Bandwidth](#)  
*(bps) The bandwidth of the pool (bps). Must be greather than BandwidthOverhead.*
- unsigned long [BandwidthOverhead](#)  
*(bps) Overhead/Free-space to the bandwidth used to prevent overshoot on a mux with a small input buffer. must be less that bandwidth*
- unsigned short [STickLength](#)  
*(ms) The S-Tick length of the pool.*
- unsigned short [MaxVSECapacity](#)  
*Maximum number of VSE's expected to be in the pool. range (1-24)*
- unsigned long [Pool\\_Property](#)



*Read only Bitmap used by GUI to display specific icons.*

- [SMX36\\_PoolSafeRateMode\\_e SafeRateMode](#)

*Safe rate mode defines the rate the VSE must fall back on if communication fails to statmux controller.*

- unsigned short [SPSInstance](#)

*RO (Reserved) The instance number of the SPS where the pool is running if allocated else 0.*

- boolean [NtpSyncRequired](#)

*RW If True, then if [DCM](#) NTP Sync Alarm is set, put all VSE members to default rate.*

#### 10.403.1 Detailed Description

Definition at line 23800 of file DCM.idl.

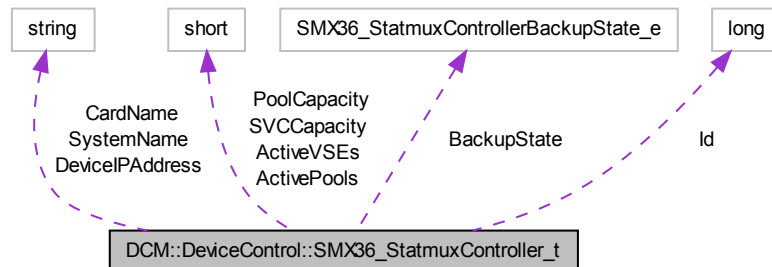
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.404 DCM::DeviceControl::SMX36\_StatmuxController\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_StatmuxController\_t:



#### Public Attributes

- long [Id](#)

*RO Statmux Controller Id.*

- string [DeviceIPAddress](#)

*RO management IPAddress of the device where the controller is placed.*

- string [SystemName](#)

*RO Systemname hat is the name of the [DCM](#).*

- string [CardName](#)

*RO (CardName) Board of the statmux controller.*

- short [PoolCapacity](#)

*RO The max number of pool the controller can handle.*

- short [ActivePools](#)  
*RO The number of active running pools on the controller.*
- short [SVCCapacity](#)  
*RO The max number of SVC (video channels) the controller can handle.*
- short [ActiveVSEs](#)  
*RO The number of active running VSE on the controller.*
- [SMX36\\_StatmuxControllerBackupState\\_e](#) BackupState  
*Future need to be clarified.*

#### 10.404.1 Detailed Description

Definition at line 23722 of file DCM.idl.

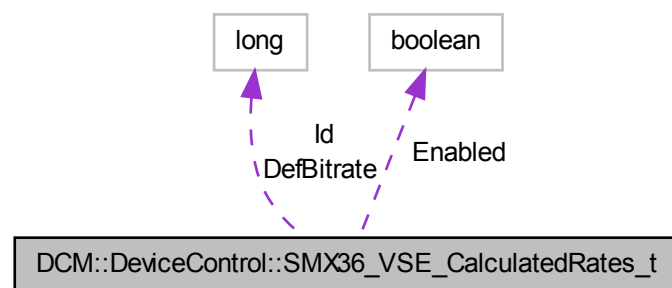
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.405 DCM::DeviceControl::SMX36\_VSE\_CalculatedRates\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_VSE\_CalculatedRates\_t:



#### Public Attributes

- long [Id](#)  
*RO Unique ID of the VSE.*
- unsigned long [DefBitrate](#)  
*RO Calculated Default Rate.*
- boolean [Enabled](#)  
*RO If the VSE is enabled or disabled in the Poollist.*

## 10.405.1 Detailed Description

Definition at line 24259 of file DCM.idl.

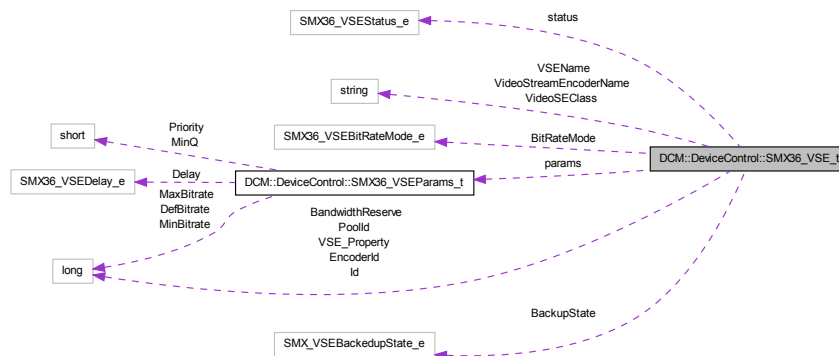
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.406 DCM::DeviceControl::SMX36\_VSE\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_VSE\_t:



## Public Attributes

- long [Id](#)  
*RO Unique ID of the video service element.*
- long [EncoderId](#)  
*RO Id of the encoder where the VSE is running.*
- string [VSEName](#)  
*RO VSEName of this Video encoding stream. MAX string length = 50.*
- string [VideoStreamEncoderName](#)  
*RO For future use.*
- [SMX36\\_VSEStatus\\_e](#) status  
*RO Status of the VSE.*
- long [PoolId](#)  
*Pool Id of the pool containing this VSE if any if not assigned the id is -1.*
- [SMX36\\_VSEParams\\_t](#) params  
*Statmux parameters for the VSE.*
- unsigned long [VSE\\_Property](#)  
*Read only Bitmap used by GUI to display specific icons.*
- unsigned long [BandwidthReserve](#)  
*(bps) Reserved bandwidth for other tributary's that the video, Used for auto bandwidth calculation on the pool.*

- [SMX36\\_VSEBitRateMode\\_e](#) BitRateMode  
*Default rate configuration mode manual or automatic.*
- string [VideoSEClass](#)  
*RO Video stream encoder class. String length = 80.*
- [SMX\\_VSEBackupState\\_e](#) BackupState  
*RO VSE backup state.*

#### 10.406.1 Detailed Description

Definition at line 24045 of file DCM.idl.

The documentation for this struct was generated from the following file:

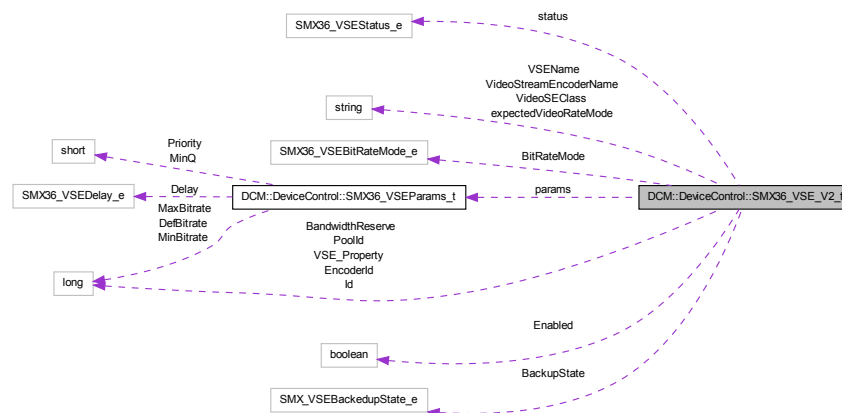
- [DCM.idl](#)

#### 10.407 DCM::DeviceControl::SMX36\_VSE\_V2\_t Struct Reference

Implemented in V9.10.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_VSE\_V2\_t:



#### Public Attributes

- long [Id](#)  
*RO Unique ID of the video service element.*
- long [EncoderId](#)  
*RO Id of the encoder where the VSE is running.*
- string [VSEName](#)  
*RO VSEName of this Video encoding stream. MAX string length = 50.*
- string [VideoStreamEncoderName](#)  
*RO For future use.*

- [SMX36\\_VSEStatus\\_e status](#)  
*RO Status of the VSE.*
- long [PoolId](#)  
*Pool Id of the pool containing this VSE if any if not assigned the id is -1.*
- [SMX36\\_VSEParams\\_t params](#)  
*Statmux parameters for the VSE.*
- unsigned long [VSE\\_Property](#)  
*Read only Bitmap used by GUI to display specific icons.*
- unsigned long [BandwidthReserve](#)  
*(bps) Reserved bandwidth for other tributary's that the video, Used for auto bandwidth calculation on the pool.*
- [SMX36\\_VSEBitRateMode\\_e BitRateMode](#)  
*Default rate configuration mode manual or automatic.*
- string [VideoSEClass](#)  
*RO Video stream encoder class. String length = 80.*
- [SMX\\_VSEBackedupState\\_e BackupState](#)  
*RO VSE backup state.*
- boolean [Enabled](#)  
*Is the VSE to be enabled in the statmux Pool.*
- string [expectedVideoRateMode](#)  
*RO Set when the VSE is placed in a Pool a alarm is raised if actual divigates from expected.*

#### 10.407.1 Detailed Description

Implemented in V9.10.

Definition at line 24064 of file DCM.idl.

The documentation for this struct was generated from the following file:

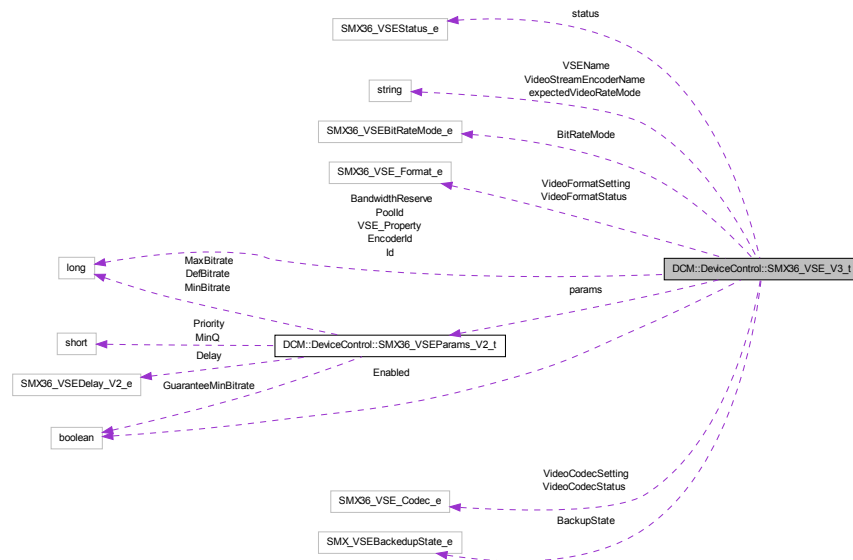
- [DCM.idl](#)

#### 10.408 DCM::DeviceControl::SMX36\_VSE\_V3\_t Struct Reference

Implemented in V10.20.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_VSE\_V3\_t:



## Public Attributes

- long [Id](#)  
*RO Unique ID of the video service element, as linked with the VSE after creation.*
- long [EncoderId](#)  
*RO Id of the encoder where the VSE is running (set upon [SMX36\\_VSE\\_Create\(\)](#))*
- string [VSEName](#)  
*RO VSEName of this Video encoding stream. MAX string length = 50, set upon [SMX36\\_VSE\\_Create\(\)](#)*
- string [VideoStreamEncoderName](#)  
*RO For future use: (if multi video in vse, not yet used)*
- [SMX36\\_VSEStatus\\_e](#) [status](#)  
*RO Status of the VSE.*
- long [PoolId](#)  
*Pool Id of the pool containing this VSE if any if not assigned the id is -1.*
- unsigned long [VSE\\_Property](#)  
*Read only Bitmap used by GUI to display specific icons.*
- unsigned long [BandwidthReserve](#)  
*(bps) Reserved bandwidth for other tributary's that the video, Used for auto bandwidth calculation on the pool.*
- [SMX36\\_VSEBitRateMode\\_e](#) [BitRateMode](#)  
*Default rate configuration mode manual or automatic.*
- [SMX\\_VSEBackupState\\_e](#) [BackupState](#)  
*RO VSE backup state.*
- boolean [Enabled](#)  
*Is the VSE to be enabled in the statmux Pool.*
- string [expectedVideoRateMode](#)

*RO Set when the VSE is placed in a Pool a alarm is raised if actual divigates from expected.*

- [SMX36\\_VSE\\_Codec\\_e VideoCodecStatus](#)

*new in V10.20 URC:*

- [SMX36\\_VSE\\_Format\\_e VideoFormatStatus](#)

*RO, status as set on VSE: a way to get valid ranges of min/maxbitrates.*

- [SMX36\\_VSE\\_Codec\\_e VideoCodecSetting](#)

*RW, as set on GUI: a way to get valid ranges of min/maxbitrates and check that VSE is still set as expected.*

- [SMX36\\_VSE\\_Format\\_e VideoFormatSetting](#)

*RW, as set on GUI: a way to get valid ranges of min/maxbitrates and check that VSE is still set as expected.*

- [SMX36\\_VSEParams\\_V2\\_t params](#)

*Statmux parameters for the VSE.*

### 10.408.1 Detailed Description

Implemented in V10.20.

Definition at line 24111 of file DCM.idl.

The documentation for this struct was generated from the following file:

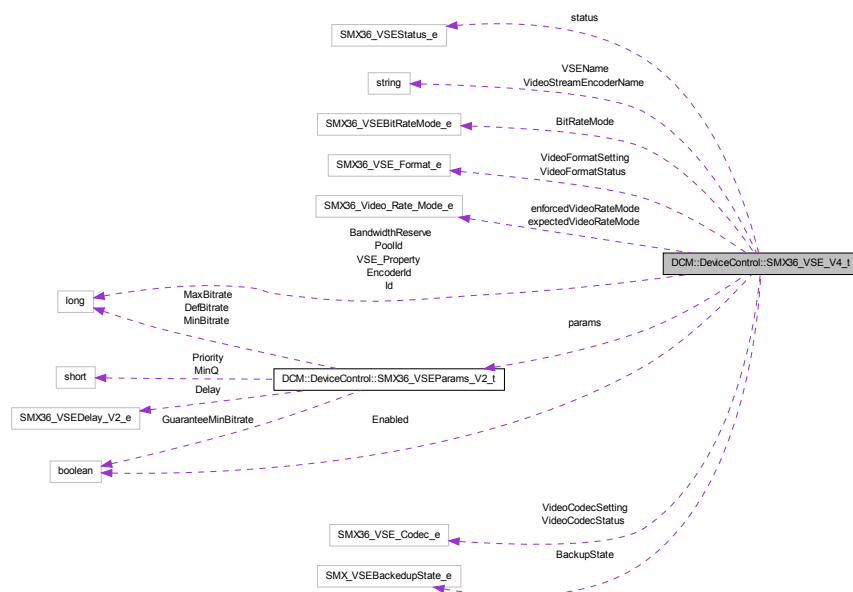
- [DCM.idl](#)

## 10.409 DCM::DeviceControl::SMX36\_VSE\_V4\_t Struct Reference

Implemented in V11.00.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_VSE\_V4\_t:



## Public Attributes

- long [Id](#)  
*RO Unique ID of the video service element, as linked with the VSE after creation.*
- long [EncoderId](#)  
*RO Id of the encoder where the VSE is running (set upon [SMX36\\_VSE\\_Create\(\)](#))*
- string [VSEName](#)  
*RO VSEName of this Video encoding stream. MAX string length = 50, set upon [SMX36\\_VSE\\_Create\(\)](#)*
- string [VideoStreamEncoderName](#)  
*RO For future use: (if multi video in vse, not yet used)*
- [SMX36\\_VSEStatus\\_e](#) status  
*RO Status of the VSE.*
- long [PoolId](#)  
*Pool Id of the pool containing this VSE if any if not assigned the id is -1.*
- unsigned long [VSE\\_Property](#)  
*Read only Bitmap used by GUI to display specific icons.*
- unsigned long [BandwidthReserve](#)  
*(bps) Reserved bandwidth for other tributary's that the video, Used for auto bandwidth calculation on the pool.*
- [SMX36\\_VSEBitRateMode\\_e](#) BitRateMode  
*Default rate configuration mode manual or automatic.*
- [SMX\\_VSEBackedupState\\_e](#) BackupState  
*RO VSE backup state.*
- boolean [Enabled](#)  
*Is the VSE to be enabled in the statmux Pool.*
- [SMX36\\_Video\\_Rate\\_Mode\\_e](#) expectedVideoRateMode  
*new in V11.00 URC:*
- [SMX36\\_Video\\_Rate\\_Mode\\_e](#) enforcedVideoRateMode  
*RW To enforce the video rate mode expected from the VSE.*
- [SMX36\\_VSE\\_Codec\\_e](#) VideoCodecStatus  
*new in V10.20 URC: See V3*
- [SMX36\\_VSE\\_Format\\_e](#) VideoFormatStatus  
*RO, status as set on VSE: a way to get valid ranges of min/maxbitrates.*
- [SMX36\\_VSE\\_Codec\\_e](#) VideoCodecSetting  
*RW, as set on GUI: a way to get valid ranges of min/maxbitrates and check that VSE is still set as expected.*
- [SMX36\\_VSE\\_Format\\_e](#) VideoFormatSetting  
*RW, as set on GUI: a way to get valid ranges of min/maxbitrates and check that VSE is still set as expected.*
- [SMX36\\_VSEParams\\_V2\\_t](#) params  
*Statmux parameters for the VSE.*

## 10.409.1 Detailed Description

Implemented in V11.00.

Definition at line 24162 of file DCM.idl.

The documentation for this struct was generated from the following file:

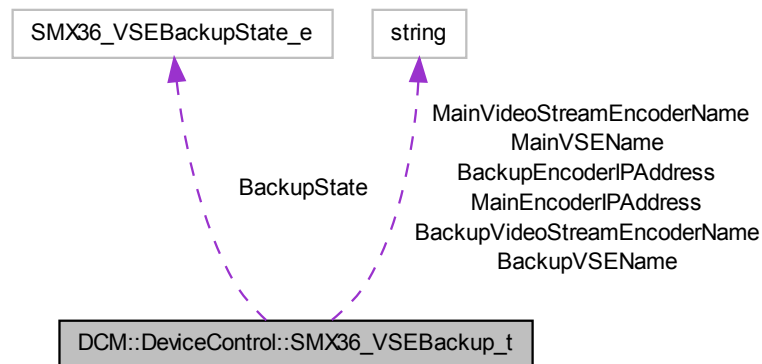
- [DCM.idl](#)



## 10.410 DCM::DeviceControl::SMX36\_VSEBackup\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_VSEBackup\_t:



## Public Attributes

- string [MainEncoderIPAddress](#)  
*Management IP Address of the Main encoder.*
- string [MainVSEName](#)  
*VSE Name of the main VSE (max length = 20).*
- string [MainVideoStreamEncoderName](#)  
*future Name of the video stream on which the statmuxing is running.*
- string [BackupEncoderIPAddress](#)  
*Management IP Address of the Backup encoder.*
- string [BackupVSEName](#)  
*VSE Name of the Backup VSE (max length = 20).*
- string [BackupVideoStreamEncoderName](#)  
*future Name of the video stream on which the statmuxing is running.*
- [SMX36\\_VSEBackupState\\_e](#) BackupState  
*State of the configured VSE backup.*

## 10.410.1 Detailed Description

Definition at line 24337 of file DCM.idl.

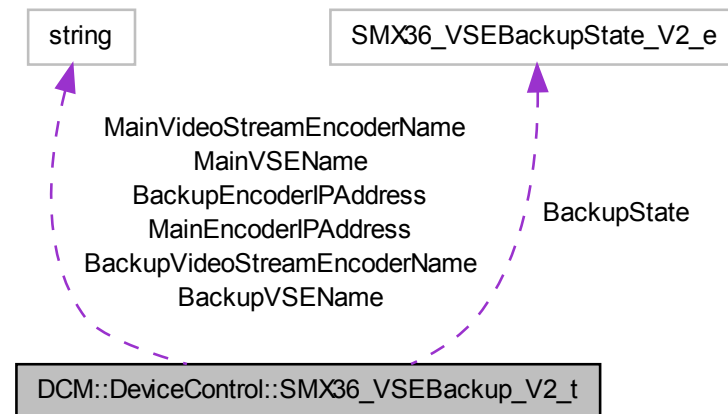
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.411 DCM::DeviceControl::SMX36\_VSEBackup\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_VSEBackup\_V2\_t:



## Public Attributes

- string [MainEncoderIPAddress](#)  
*Management IP Address of the Main encoder.*
- string [MainVSEName](#)  
*VSE Name of the main VSE (max length = 20).*
- string [MainVideoStreamEncoderName](#)  
*future Name of the video stream on which the statmuxing is running.*
- string [BackupEncoderIPAddress](#)  
*Management IP Address of the Backup encoder.*
- string [BackupVSEName](#)  
*VSE Name of the Backup VSE (max length = 20).*
- string [BackupVideoStreamEncoderName](#)  
*future Name of the video stream on which the statmuxing is running.*
- [SMX36\\_VSEBackupState\\_V2\\_e](#) [BackupState](#)  
*State of the configured VSE backup.*

## 10.411.1 Detailed Description

**Version**

release 9.10 added suport for safeguard

Definition at line 24349 of file DCM.idl.

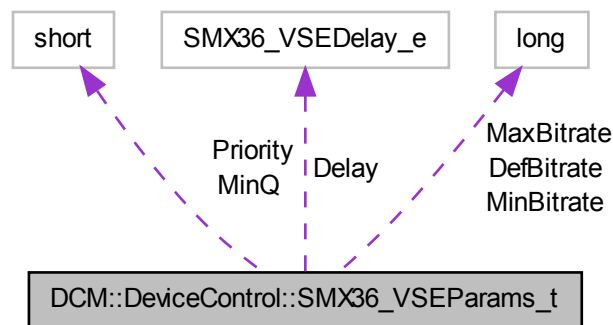
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

**10.412 DCM::DeviceControl::SMX36\_VSEParams\_t Struct Reference**

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_VSEParams\_t:

**Public Attributes**

- unsigned long [DefBitrate](#)  
(bps) Default bitrate. Range (200.000 -> 60.000.000)
- unsigned long [MinBitrate](#)  
(bps) Minimum bitrate. Range (200.000 -> 60.000.000)
- unsigned long [MaxBitrate](#)  
(bps) Maximum bitrate. Range (200.000 -> 60.000.000)
- short [Priority](#)  
VSE Priority. Range (0..6)
- [SMX36\\_VSEDelay\\_e](#) [Delay](#)  
VSE Delay.
- short [MinQ](#)  
(Future) Minimum quality.

## 10.412.1 Detailed Description

Definition at line 24000 of file DCM.idl.

The documentation for this struct was generated from the following file:

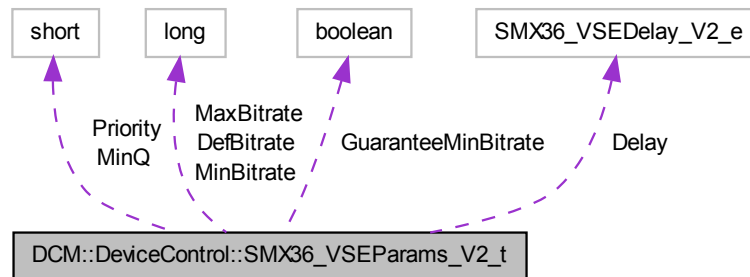
- [DCM.idl](#)

## 10.413 DCM::DeviceControl::SMX36\_VSEParams\_V2\_t Struct Reference

For URC mode (planned 10.20)

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX36\_VSEParams\_V2\_t:



## Public Attributes

- unsigned long [DefBitrate](#)  
(bps) Default bitrate. Range (200.000 -> 60.000.000)
- unsigned long [MinBitrate](#)  
(bps) Minimum bitrate. Range (200.000 -> 60.000.000)
- unsigned long [MaxBitrate](#)  
(bps) Maximum bitrate. Range (200.000 -> 60.000.000)
- short [Priority](#)  
VSE Priority. Range (0..6)
- [SMX36\\_VSEDelay\\_V2\\_e](#) Delay  
VSE Delay.
- short [MinQ](#)  
(Future) Minimum quality.
- boolean [GuaranteeMinBitrate](#)  
if true, enforce minimum bitrate (by stuffing if needed), default: True

## 10.413.1 Detailed Description

For URC mode (planned 10.20)

Definition at line 24011 of file DCM.idl.

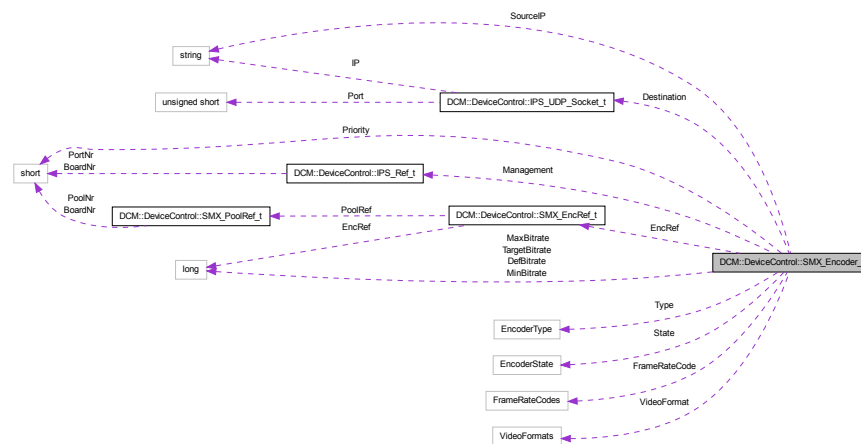
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.414 DCM::DeviceControl::SMX\_Encoder\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_Encoder\_t:



## Public Attributes

- [SMX\\_EncRef\\_t](#) EncRef
- [IPS\\_Ref\\_t](#) Management
- [string](#) SourceIP
- [IPS\\_UDP\\_Socket\\_t](#) Destination
- [short](#) Priority
- [EncoderState](#) State
- [unsigned long](#) MinBitrate
- [unsigned long](#) MaxBitrate
- [unsigned long](#) DefBitrate
- [unsigned long](#) TargetBitrate
- [FrameRateCodes](#) FrameRateCode
- [VideoFormats](#) VideoFormat
- [EncoderType](#) Type

### 10.414.1 Detailed Description

Definition at line 23455 of file DCM.idl.

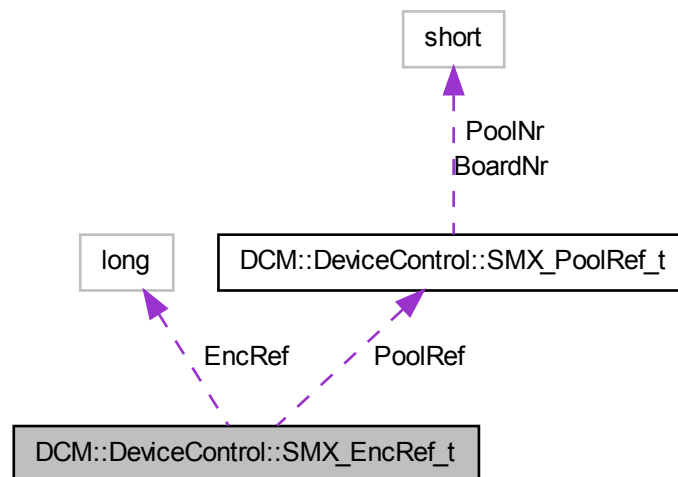
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.415 DCM::DeviceControl::SMX\_EncRef\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_EncRef\_t:



### Public Attributes

- [SMX\\_PoolRef\\_t PoolRef](#)
- unsigned long [EncRef](#)

### 10.415.1 Detailed Description

Definition at line 23417 of file DCM.idl.

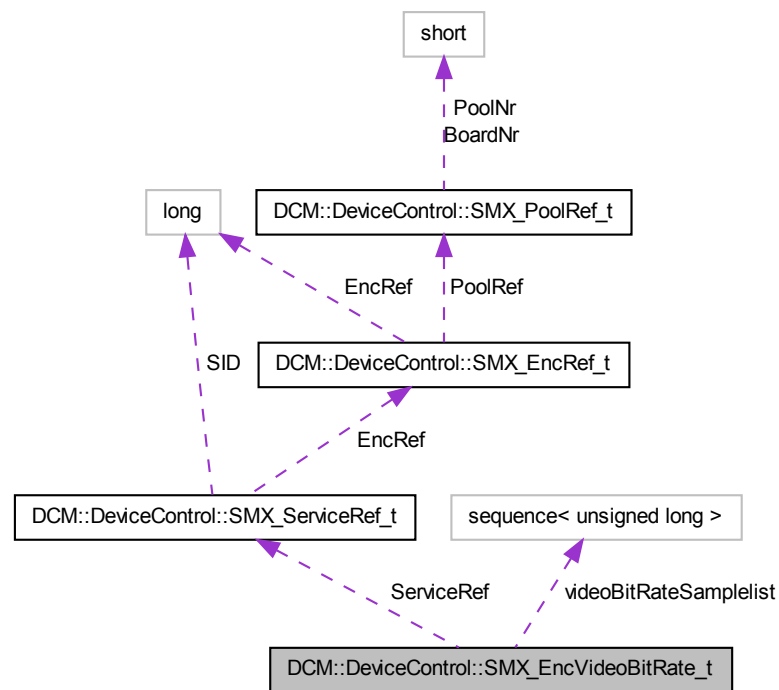
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.416 DCM::DeviceControl::SMX\_EncVideoBitRate\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_EncVideoBitRate\_t:



## Public Attributes

- [SMX\\_ServiceRef\\_t ServiceRef](#)
- [BitRateSampleList\\_t videoBitRateSamplelist](#)

## 10.416.1 Detailed Description

Definition at line 23585 of file DCM.idl.

The documentation for this struct was generated from the following file:

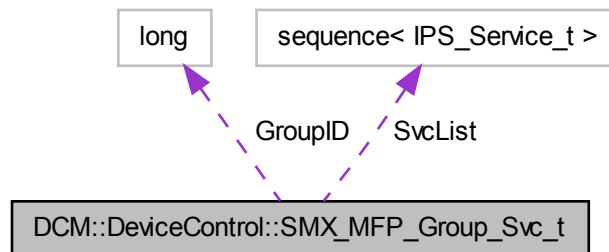
- [DCM.idl](#)

## 10.417 DCM::DeviceControl::SMX\_MFP\_Group\_Svc\_t Struct Reference

Services in a group.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_MFP\_Group\_Svc\_t:



#### Public Attributes

- unsigned long [GroupID](#)  
*The group reference. The group should already exist.*
- [IPS\\_Service\\_List\\_t](#) `SvcList`  
*sequence of services*

#### 10.417.1 Detailed Description

Services in a group.

Definition at line 16293 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

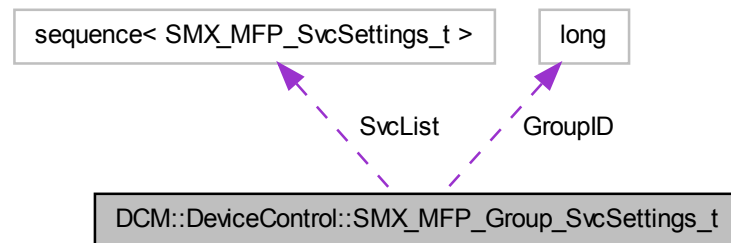
#### 10.418 DCM::DeviceControl::SMX\_MFP\_Group\_SvcSettings\_t Struct Reference

Service settings within a group.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::SMX\_MFP\_Group\_SvcSettings\_t:



#### Public Attributes

- unsigned long [GroupID](#)  
*The group reference. The group should already exist.*
- [SMX\\_MFP\\_SvcSettings\\_List\\_t](#) [SvcList](#)  
*sequence of services with their settings*

#### 10.418.1 Detailed Description

Service settings within a group.

Definition at line 16271 of file DCM.idl.

The documentation for this struct was generated from the following file:

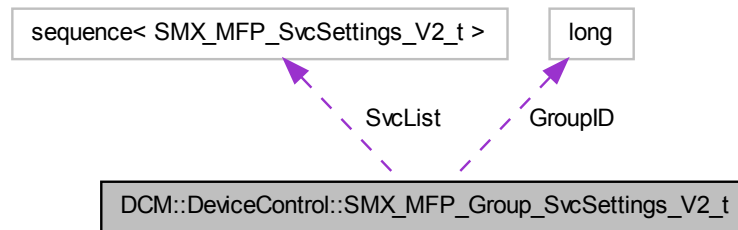
- [DCM.idl](#)

#### 10.419 DCM::DeviceControl::SMX\_MFP\_Group\_SvcSettings\_V2\_t Struct Reference

Service settings within a group.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_MFP\_Group\_SvcSettings\_V2\_t:



#### Public Attributes

- unsigned long [GroupID](#)  
*The group reference. The group should already exist.*
- [SMX\\_MFP\\_SvcSettings\\_V2\\_List\\_t](#) [SvcList](#)  
*sequence of services with their settings*

#### 10.419.1 Detailed Description

Service settings within a group.

Definition at line 16282 of file DCM.idl.

The documentation for this struct was generated from the following file:

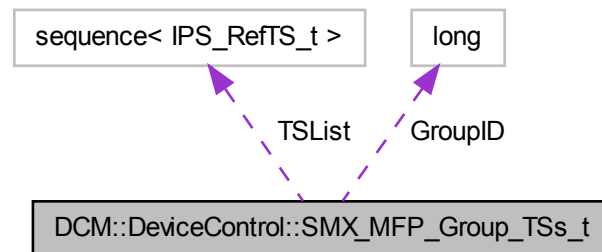
- [DCM.idl](#)

#### 10.420 DCM::DeviceControl::SMX\_MFP\_Group\_TSs\_t Struct Reference

List of TS on a Statmux group, used for deleting TS from gorup.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_MFP\_Group\_TSs\_t:



#### Public Attributes

- unsigned long [GroupID](#)  
*The group reference. The group should already exist.*
- [IPS\\_RefTS\\_List\\_t](#) TSList  
*A sequence of output transport streamS.*

#### 10.420.1 Detailed Description

List of TS on a Statmux group, used for deleting TS from gorup.

Definition at line 16200 of file DCM.idl.

The documentation for this struct was generated from the following file:

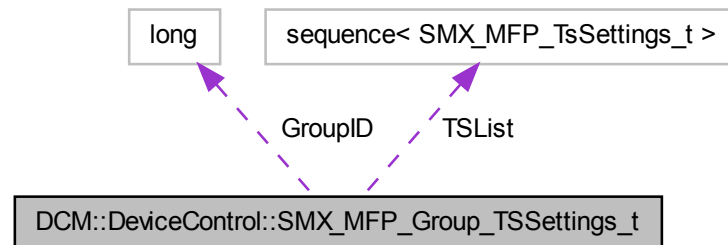
- [DCM.idl](#)

#### 10.421 DCM::DeviceControl::SMX\_MFP\_Group\_TSSettings\_t Struct Reference

List of TS settings on Statmux group Can be used to add/get TS to/from a group.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_MFP\_Group\_TSSettings\_t:



### Public Attributes

- unsigned long [GroupID](#)  
*The group reference. The group should already exist.*
- [SMX\\_MFP\\_TsSettings\\_List\\_t](#) TSList  
*A sequence of output transport stream settings.*

#### 10.421.1 Detailed Description

List of TS settings on Statmux group Can be used to add/get TS to/from a group.

This can only be done for MultiTS and SingleTS\_AllSvc group types. It is not possible to add/get/delete TS for a SingleTS\_SelectedSvc group.

Definition at line 16191 of file DCM.idl.

The documentation for this struct was generated from the following file:

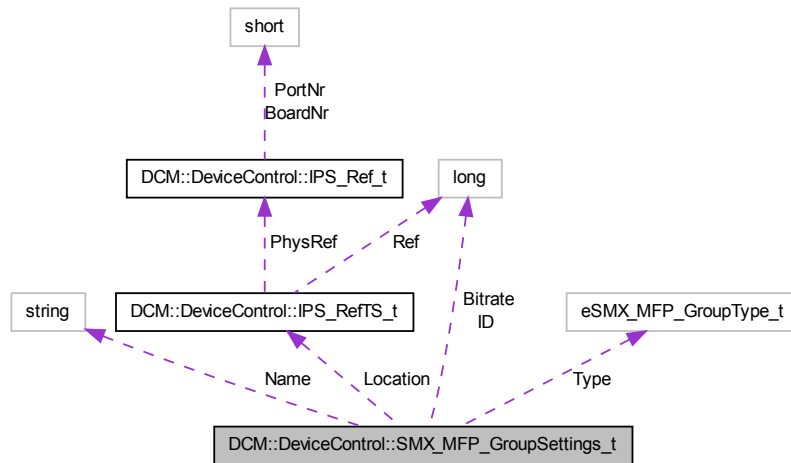
- [DCM.idl](#)

## 10.422 DCM::DeviceControl::SMX\_MFP\_GroupSettings\_t Struct Reference

Statmux group settings The Type of the SMXGroup is important concerning further behavior and meanings of the different fields.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_MFP\_GroupSettings\_t:



### Public Attributes

- unsigned long [ID](#)  
*ID of the group: read-only, ignored during creation. Only used in Set/Get/Delete commands.*
- string [Name](#)  
*Name: writable, the same name may be used multiple times, it exists only for user ref. not used internally by the DCM. Name length limited to 32 characters.*
- [eSMX\\_MFP\\_GroupType\\_t](#) [Type](#)  
*Type of group: write-once on creation, read only after creation.*
- [IPS\\_RefTS\\_t](#) [Location](#)  
*Location of group (depends on Type: can be TS or Port only): write-once on creation, read only in the other cases. REQUIREMENT: Should be a port for group type MultiTS and be a TS for the other group types.*
- unsigned long [Bitrate](#)  
*The maximum bitrate that should be applied to the statmux group. This should be lower or equal to the output transport stream bandwidth in case of SingleTS\_xxx group types. In bits per second. Range: from 1Mbps to 950Mbps. REQUIREMENT: should be less than the bitrate associated with the location.*

#### 10.422.1 Detailed Description

Statmux group settings The Type of the SMXGroup is important concerning further behavior and meanings of the different fields.

see the [eSMX\\_MFP\\_GroupType\\_t](#) for more details about the type.

Definition at line 16151 of file DCM.idl.

The documentation for this struct was generated from the following file:

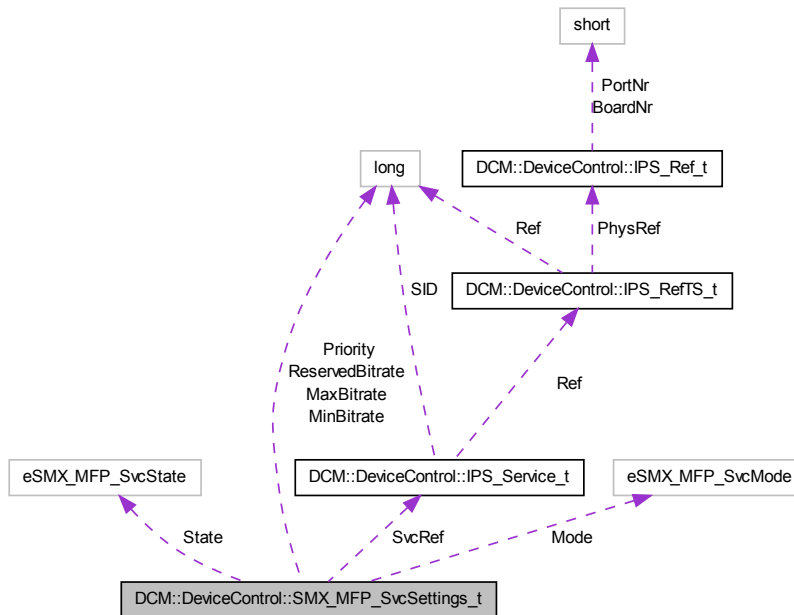
- [DCM.idl](#)

## 10.423 DCM::DeviceControl::SMX\_MFP\_SvcSettings\_t Struct Reference

Statmux setting of a service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_MFP\_SvcSettings\_t:



## Public Attributes

- [IPS\\_Service\\_t SvcRef](#)

*Ref of the service.*

- [eSMX\\_MFP\\_SvcState State](#)

*Read-Only: the encoder rate control state.*

- [eSMX\\_MFP\\_SvcMode Mode](#)

*to be statmuxed or used in rate limited mode. Rate Limited mode can only be set on a SPTS service in a MultiTS group. DEFAULT when service is added into a group: RateLimit mode for a MultTS group. Statmux mode for all other group types.*

- unsigned long [MaxBitrate](#)

*maximum allowed bitrate for this service In bits per second. Range: 3Mbps to 30Mbps REQUIREMENT: MaxBitrate has to be larger or equal MinBitrate REMARK: in RateLimit mode, the MaxBitrate indicates the rate limit. DEFAULT when service is added into a group: The Statmux Group bitrate or 12500000, whatever is the smallest.*

- unsigned long [MinBitrate](#)

*minimum allowed bitrate for this service In bits per second. Range: 500Kbps to 8Mbps REQUIREMENT: MinBitrate has to be lower or equal MaxBitrate Ignored in RateLimit mode DEFAULT when service is added into a group: 1000000*

- long [Priority](#)

*relative priority (quality) in the statmux group. Range: from 0 to 6. < DEFAULT when service is added into a group: 3*

- unsigned long [ReservedBitrate](#)  
*reserved for future use: has to be filled in with 0.*

### 10.423.1 Detailed Description

Statmux setting of a service.

These can be retrieved and changed by the `SMX_MFP_SvcSettingsGet` and `SMX_MFP_SvcSettingsChange` calls. They can be retrieved/changed for all video services being statmuxed in a group.

Definition at line 16213 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

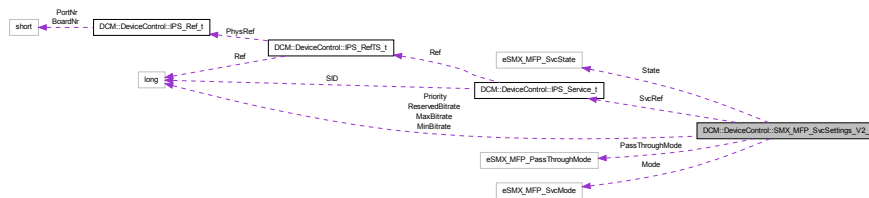
- [DCM.idl](#)

## 10.424 DCM::DeviceControl::SMX\_MFP\_SvcSettings\_V2\_t Struct Reference

Statmux setting of a service, Version 2.

```
import "DCM.idl";
```

Collaboration diagram for `DCM::DeviceControl::SMX_MFP_SvcSettings_V2_t`:



### Public Attributes

- [IPS\\_Service\\_t SvcRef](#)  
*Ref of the service.*
- [eSMX\\_MFP\\_SvcState State](#)  
*Read-Only: the encoder rate control state.*
- [eSMX\\_MFP\\_SvcMode Mode](#)  
*see `SMX_MFP_SvcSettings_t`*
- [eSMX\\_MFP\\_PassThroughMode PassThroughMode](#)  
*How pass-through services should be handled.*
- unsigned long [MaxBitrate](#)  
*see `SMX_MFP_SvcSettings_t`*
- unsigned long [MinBitrate](#)  
*see `SMX_MFP_SvcSettings_t`*
- long [Priority](#)  
*see `SMX_MFP_SvcSettings_t`*

- unsigned long [ReservedBitrate](#)  
*reserved for future use: has to be filled in with 0.*

#### 10.424.1 Detailed Description

Statmux setting of a service, Version 2.

##### Version

Release 11.10

Added automatic measuring of passthrough services. When upgrading from pre 11.10: measuring is disabled, has to manually enabled (which is keeping the pre 11.10 behaviour). New services will automatically be put in measured pass-through mode. Remark that measuring pass-through services only works for services passing the MFP board.

Definition at line 16252 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

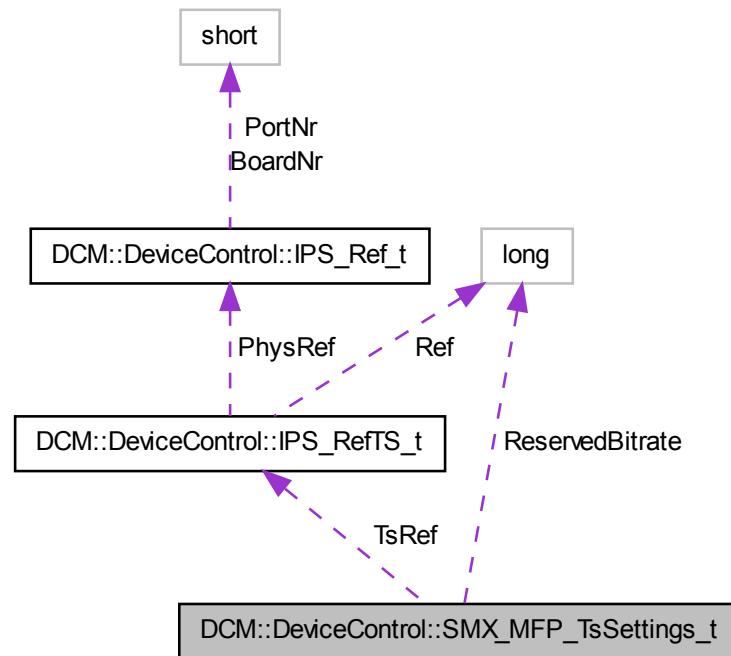
#### 10.425 DCM::DeviceControl::SMX\_MFP\_TsSettings\_t Struct Reference

Data linked with a TS in statmux context.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::SMX\_MFP\_TsSettings\_t:



### Public Attributes

- [IPS\\_RefTS\\_t TsRef](#)  
*Ref of the TS.*
- unsigned long [ReservedBitrate](#)  
*reserved bitrate for this TS (for instance reserved for TS PIDs) In bits per second. Range: from 0 to 1 Gbps.*

### 10.425.1 Detailed Description

Data linked with a TS in statmux context.

Definition at line 16176 of file DCM.idl.

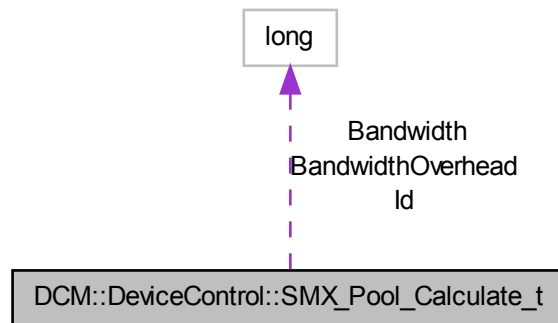
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.426 DCM::DeviceControl::SMX\_Pool\_Calculate\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_Pool\_Calculate\_t:



#### Public Attributes

- long [Id](#)  
*RO Pool Id.*
- unsigned long [Bandwidth](#)  
*(bps) The bandwidth of the pool (bps). Must be greater than BandwidthOverhead.*
- unsigned long [BandwidthOverhead](#)  
*(bps) Overhead/Free-space to the bandwidth used to prevent overshoot on a mux with a small input buffer. must be less that bandwidth*

#### 10.426.1 Detailed Description

Definition at line 24267 of file DCM.idl.

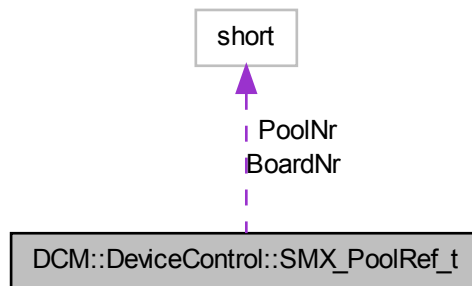
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.427 DCM::DeviceControl::SMX\_PoolRef\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_PoolRef\_t:



#### Public Attributes

- unsigned short [BoardNr](#)
- unsigned short [PoolNr](#)

#### 10.427.1 Detailed Description

Definition at line 23347 of file DCM.idl.

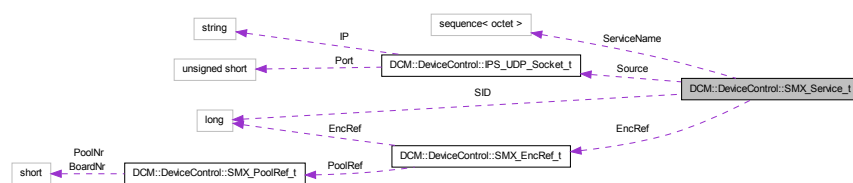
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.428 DCM::DeviceControl::SMX\_Service\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_Service\_t:



#### Public Attributes

- [SMX\\_EncRef\\_t](#) EncRef

- unsigned long [SID](#)
- [DvbString\\_t](#) [ServiceName](#)
- [IPS\\_UDP\\_Socket\\_t](#) [Source](#)

#### 10.428.1 Detailed Description

Definition at line 23486 of file DCM.idl.

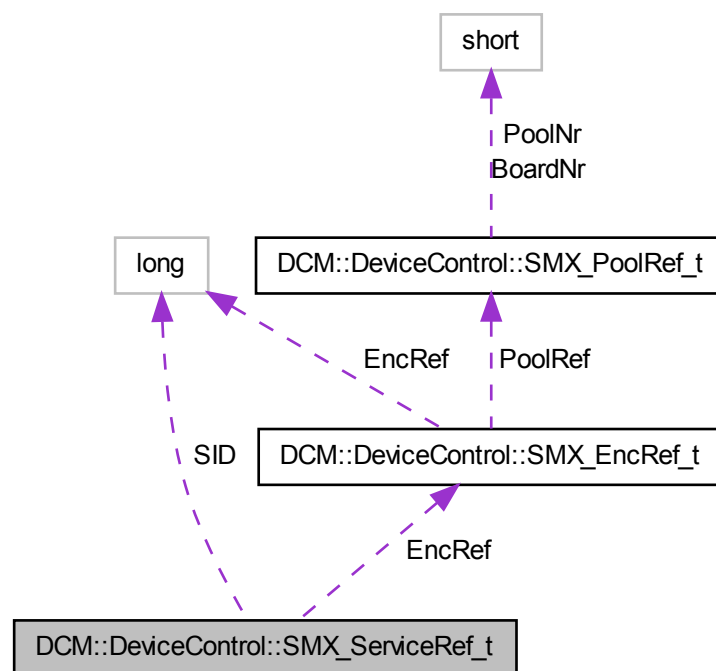
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.429 DCM::DeviceControl::SMX\_ServiceRef\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_ServiceRef\_t:



#### Public Attributes

- [SMX\\_EncRef\\_t](#) [EncRef](#)
- unsigned long [SID](#)

## 10.429.1 Detailed Description

Definition at line 23480 of file DCM.idl.

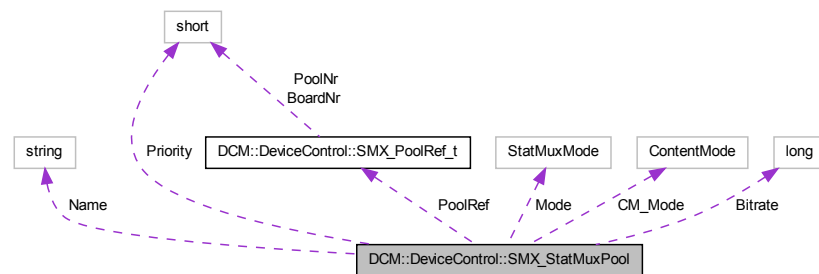
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.430 DCM::DeviceControl::SMX\_StatMuxPool Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_StatMuxPool:



## Public Attributes

- [SMX\\_PoolRef\\_t PoolRef](#)
- [string Name](#)
- [unsigned long Bitrate](#)
- [StatMuxMode Mode](#)
- [ContentMode CM\\_Mode](#)
- [unsigned short Priority](#)

## 10.430.1 Detailed Description

Definition at line 23366 of file DCM.idl.

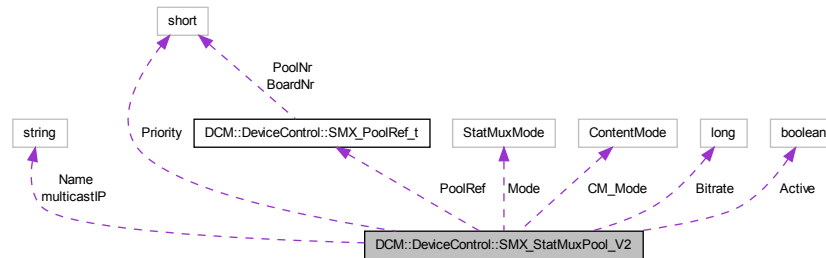
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.431 DCM::DeviceControl::SMX\_StatMuxPool\_V2 Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SMX\_StatMuxPool\_V2:



### Public Attributes

- [SMX\\_PoolRef\\_t PoolRef](#)
- [string Name](#)
- [unsigned long Bitrate](#)
- [StatMuxMode Mode](#)
- [ContentMode CM\\_Mode](#)
- [unsigned short Priority](#)
- [boolean Active](#)
- [string multicastIP](#)

#### 10.431.1 Detailed Description

Definition at line 23384 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

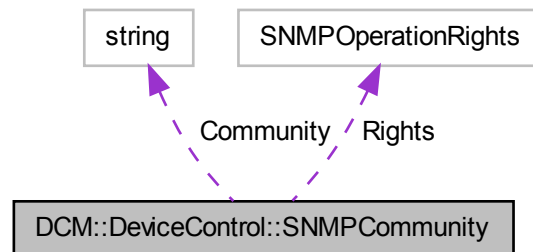
- [DCM.idl](#)

## 10.432 DCM::DeviceControl::SNMPCommunity Struct Reference

SNMP read or write community settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SNMPCommunity:



#### Public Attributes

- string [Community](#)  
*Max 40 char.*
- [SNMPOperationRights](#) Rights

#### 10.432.1 Detailed Description

SNMP read or write community settings.

Definition at line 1163 of file DCM.idl.

The documentation for this struct was generated from the following file:

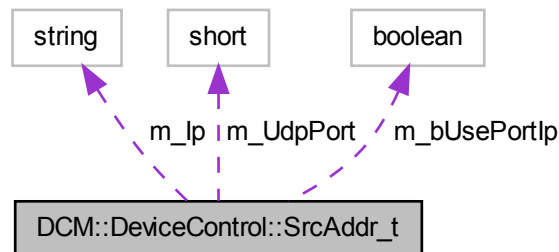
- [DCM.idl](#)

### 10.433 DCM::DeviceControl::SrcAddr\_t Struct Reference

Structure to specify some Ip header parameters for outgoing GbE packets.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SrcAddr\_t:



#### Public Attributes

- boolean [m\\_bUsePortIp](#)  
*If this flag is true, the ip address of the port is used as source ip address.*
- string [m\\_ip](#)  
*This field has no effect if m\_bUsePortIp is true.*
- unsigned short [m\\_UdpPort](#)  
*The Port Number to use as source udp port.*

#### 10.433.1 Detailed Description

Structure to specify some Ip header parameters for outgoing GbE packets.

Definition at line 18167 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

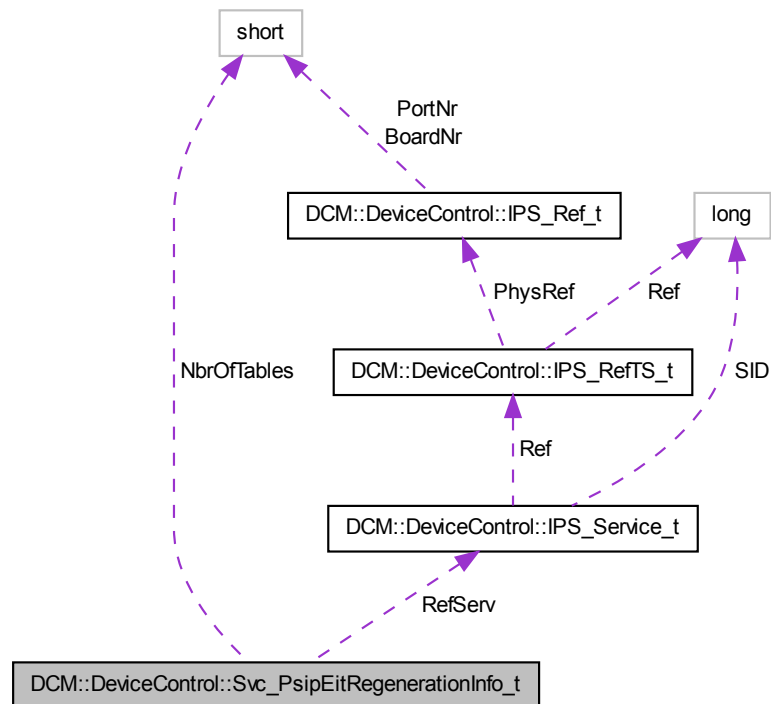
#### 10.434 DCM::DeviceControl::Svc\_PsipEitRegenerationInfo\_t Struct Reference

Structure combining service information with the number of regenerated PSIP-EIT subtables.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::Svc\_PsipEitRegenerationInfo\_t:



### Public Attributes

- [IPS\\_Service\\_t RefServ](#)
- unsigned short [NbrOfTables](#)

#### 10.434.1 Detailed Description

Structure combining service information with the number of regenerated PSIP-EIT subtables.

The member NbrOfTables can be set to PSIP\_REGENERATION\_FOLLOW\_INPUT.

Definition at line 9480 of file DCM.idl.

The documentation for this struct was generated from the following file:

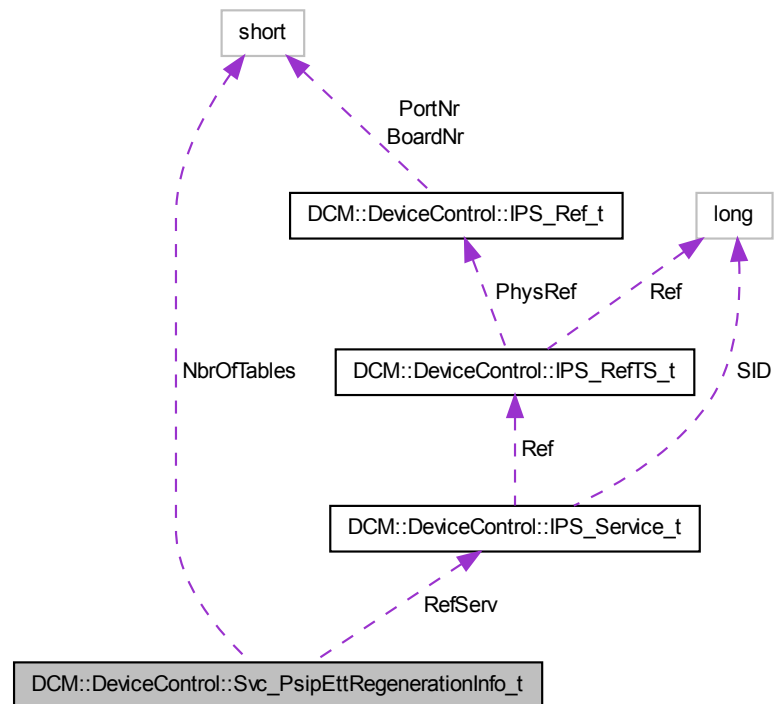
- [DCM.idl](#)

### 10.435 DCM::DeviceControl::Svc\_PsipEitRegenerationInfo\_t Struct Reference

Structure combining service information with the number of regenerated PSIP-ETT subtables.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Svc\_PsipEttRegenerationInfo\_t:



### Public Attributes

- [IPS\\_Service\\_t RefServ](#)
- unsigned short [NbrOfTables](#)

### 10.435.1 Detailed Description

Structure combining service information with the number of regenerated PSIP-ETT subtables.

Definition at line 9492 of file DCM.idl.

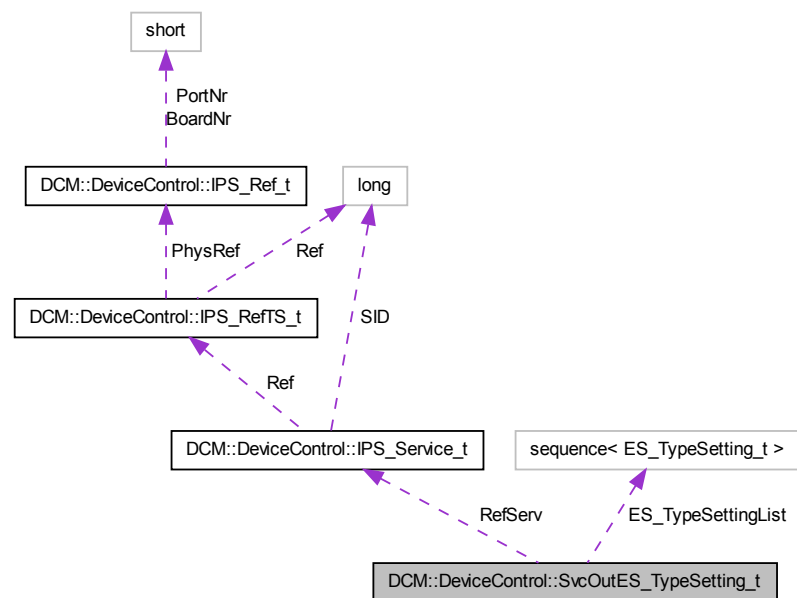
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.436 DCM::DeviceControl::SvcOutES\_TypeSetting\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SvcOutES\_TypeSetting\_t:



#### Public Attributes

- [IPS\\_Service\\_t RefServ](#)
- [ES\\_TypeSettingList\\_t ES\\_TypeSettingList](#)

#### 10.436.1 Detailed Description

Definition at line 5855 of file DCM.idl.

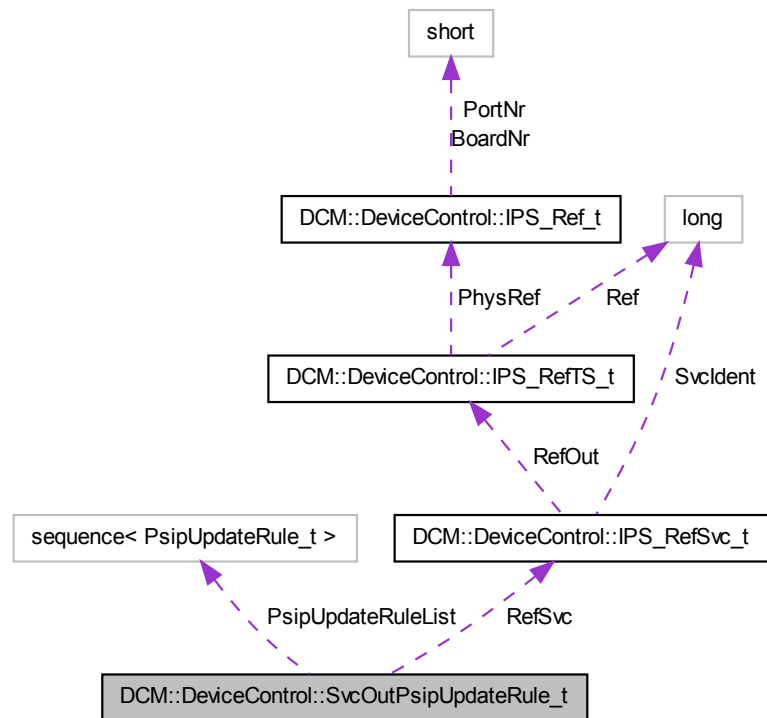
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.437 DCM::DeviceControl::SvcOutPspipUpdateRule\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SvcOutPsipUpdateRule\_t:



#### Public Attributes

- [IPS\\_RefSvc\\_t RefSvc](#)
- [PsipUpdateRuleList\\_t PsipUpdateRuleList](#)

#### 10.437.1 Detailed Description

Definition at line 8492 of file DCM.idl.

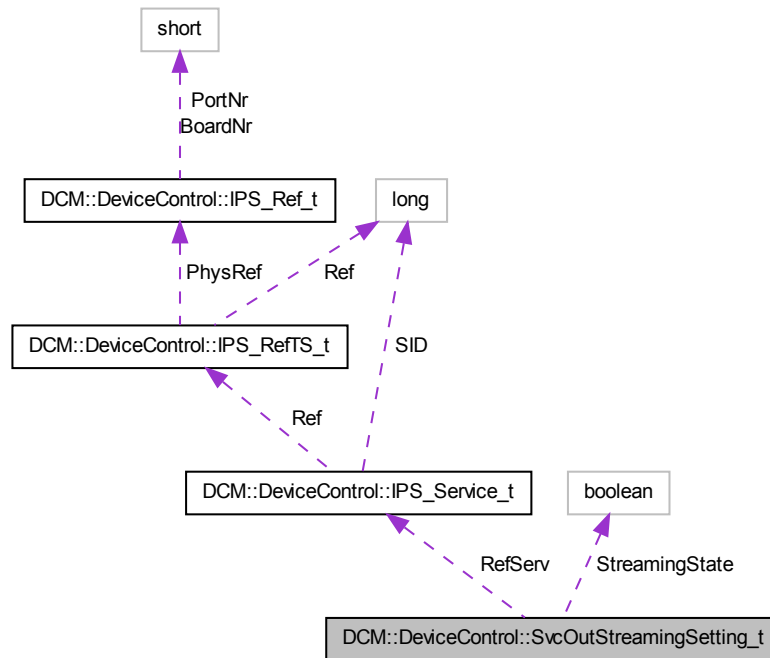
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.438 DCM::DeviceControl::SvcOutStreamingSetting\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::SvcOutStreamingSetting\_t:



### Public Attributes

- [IPS\\_Service\\_t RefServ](#)
- boolean [StreamingState](#)

#### 10.438.1 Detailed Description

Definition at line 6069 of file DCM.idl.

The documentation for this struct was generated from the following file:

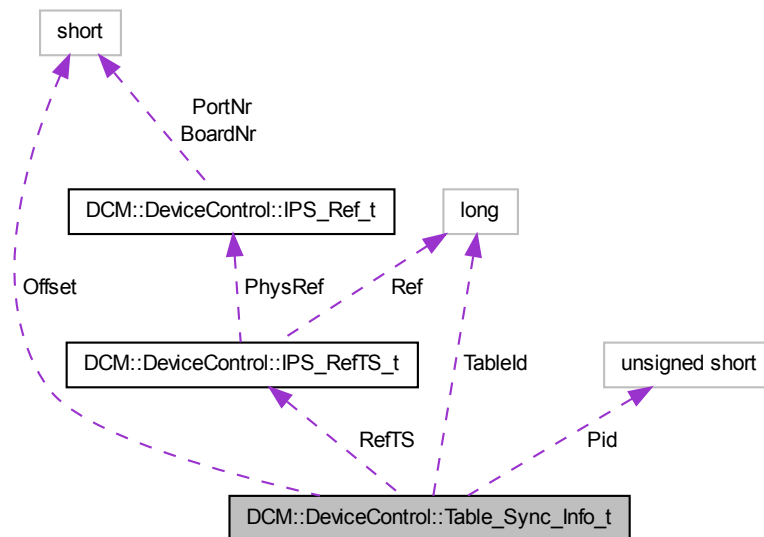
- [DCM.idl](#)

### 10.439 DCM::DeviceControl::Table\_Sync\_Info\_t Struct Reference

Structure defining the parameters for time sync via SI table acquisition.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Table\_Sync\_Info\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefTS](#)  
*input TS where table has to be retrieved from*
- unsigned long [TableId](#)  
*0x70 for TDT of 0x73 for TOT or 0xCD for STT*
- unsigned short [Pid](#)  
*pid value. Typically 0x14 for TDT/TOT and 0x1FFB for STT < If INVALID\_PID\_VALUE (0xFFFF) is specified then typical pid value < will be used automatically*
- short [Offset](#)  
*value in ms that is added to the T\*T time before applying it to the system clock. < Can be a negative value!  
Value in seconds (steps of 1000ms) to correct GPS < time to UTC time. Not supported for the moment and always reset to 0.*

### 10.439.1 Detailed Description

Structure defining the parameters for time sync via SI table acquisition.

Definition at line 732 of file DCM.idl.

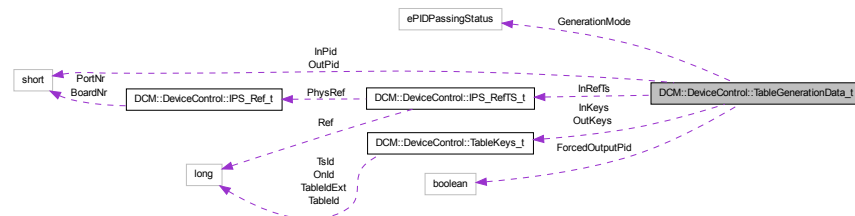
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.440 DCM::DeviceControl::TableGenerationData\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TableGenerationData\_t:



## Public Attributes

- [TableKeys\\_t OutKeys](#)  
*Keys to locate the output table.*
- unsigned short [OutPid](#)  
*Pid on which the output table should be played out PMT Pid range: 0x0020 .*
- boolean [ForcedOutputPid](#)  
*Indicates if the output pid should be forced or not (=0)*
- [ePIDPassingStatus GenerationMode](#)  
*Specifies what should happen wiht the output table.*
- [IPS\\_RefTS\\_t InRefTs](#)  
*Slot, port and index of the input TS where the table to be be used can be found.*
- [TableKeys\\_t InKeys](#)  
*Keys to locate the desired input table.*
- unsigned short [InPid](#)  
*Pid on which the specified input table should be found.*

## 10.440.1 Detailed Description

Definition at line 6025 of file DCM.idl.

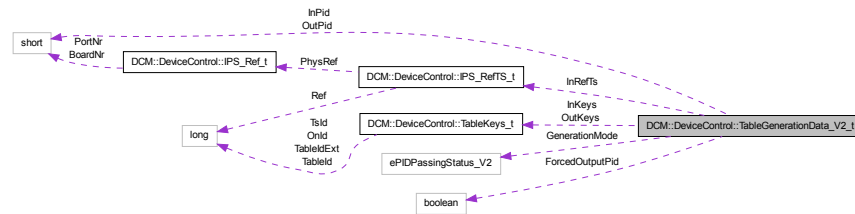
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.441 DCM::DeviceControl::TableGenerationData\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TableGenerationData\_V2\_t:



## Public Attributes

- [TableKeys\\_t OutKeys](#)  
*Keys to locate the output table.*
- unsigned short [OutPid](#)  
*Pid on which the output table should be played out PMT Pid range: 0x0020 .*
- boolean [ForcedOutputPid](#)  
*Indicates if the output pid should be forced or not (=0)*
- [ePIDPassingStatus\\_V2 GenerationMode](#)  
*Specifies what should happen wiht the output table.*
- [IPS\\_RefTS\\_t InRefTs](#)  
*Slot, port and index of the input TS where the table to be be used can be found.*
- [TableKeys\\_t InKeys](#)  
*Keys to locate the desired input table.*
- unsigned short [InPid](#)  
*Pid on which the specified input table should be found.*

### 10.441.1 Detailed Description

Definition at line 6047 of file DCM.idl.

The documentation for this struct was generated from the following file:

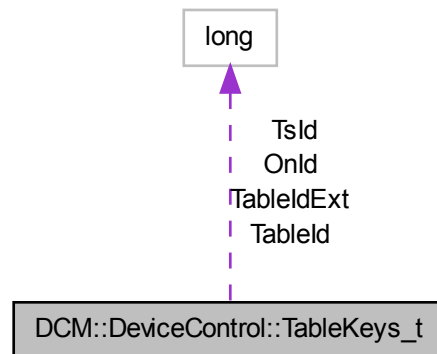
- [DCM.idl](#)

## 10.442 DCM::DeviceControl::TableKeys\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::TableKeys\_t:



### Public Attributes

- unsigned long [TableId](#)
- unsigned long [OnId](#)  
*Set to 0xFFFFFFFF when not used.*
- unsigned long [TsId](#)  
*Set to 0xFFFFFFFF when not used.*
- unsigned long [TableIdExt](#)  
*SID,.... Set to 0xFFFFFFFF when not used.*

#### 10.442.1 Detailed Description

Definition at line 2750 of file `DCM.idl`.

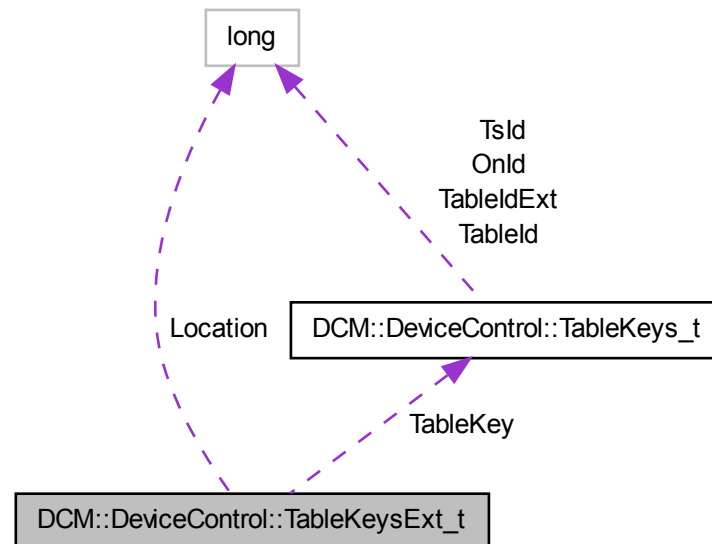
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.443 DCM::DeviceControl::TableKeysExt\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TableKeysExt\_t:



#### Public Attributes

- [TableKeys\\_t TableKey](#)
- unsigned long [Location](#)  
*e.g. Event ID, TS\_ID, SID, PID,*

#### 10.443.1 Detailed Description

Definition at line 7806 of file `DCM.idl`.

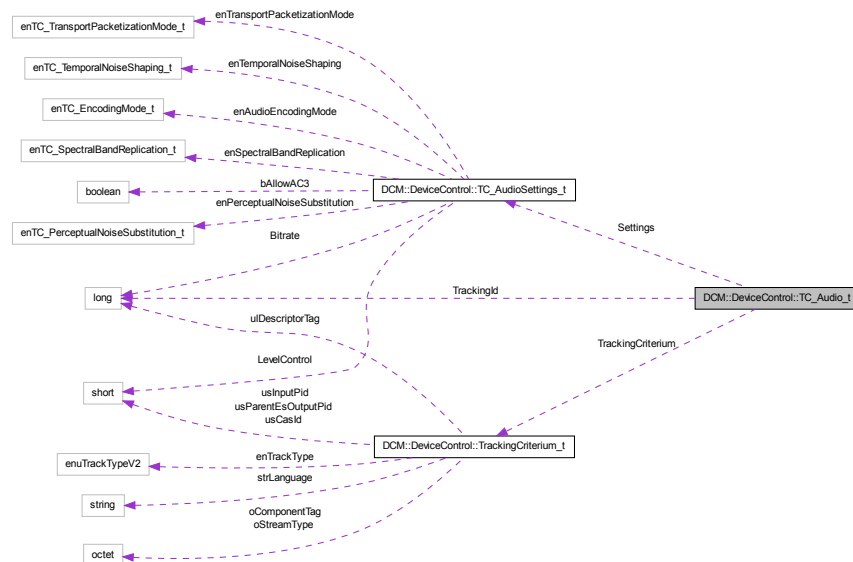
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.444 DCM::DeviceControl::TC\_Audio\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_Audio\_t:



## Public Attributes

- [TrackingID\\_t TrackingId](#)  
*0 when creating a new entry*
- [TrackingCriterium\\_t TrackingCriterium](#)
- [TC\\_AudioSettings\\_t Settings](#)

### 10.444.1 Detailed Description

Definition at line 13149 of file DCM.idl.

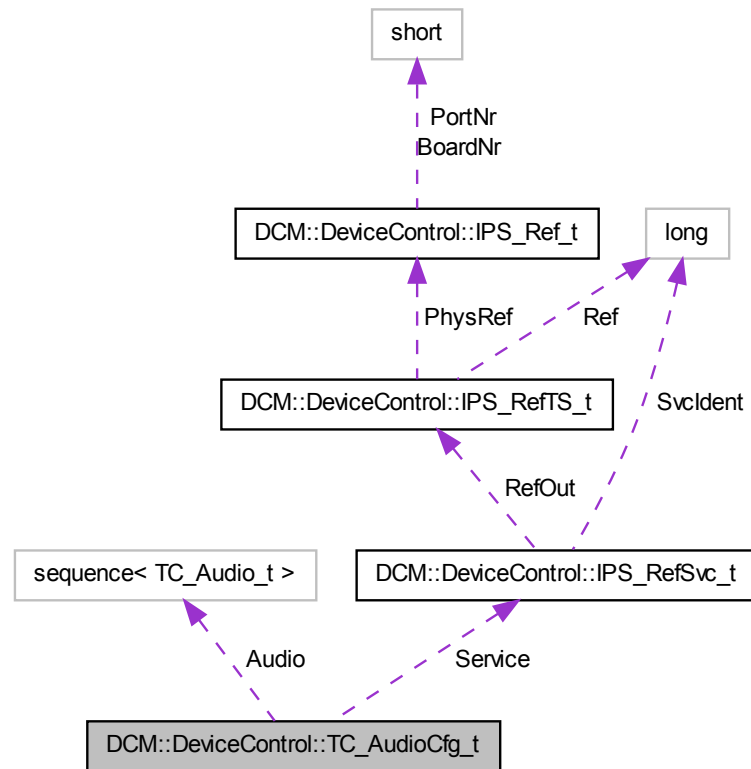
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.445 DCM::DeviceControl::TC\_AudioCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_AudioCfg\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_AudioList\\_t Audio](#)

### 10.445.1 Detailed Description

Definition at line 13216 of file `DCM.idl`.

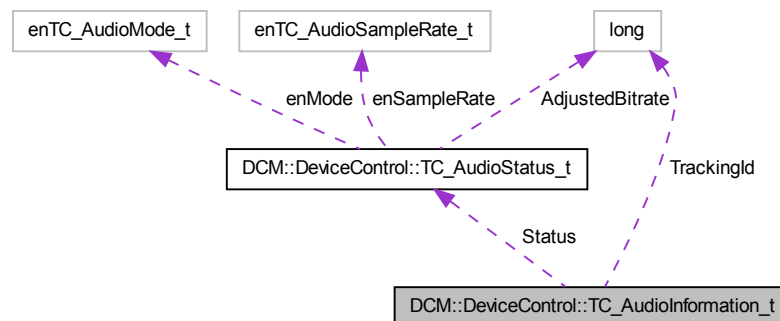
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.446 DCM::DeviceControl::TC\_AudioInformation\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_AudioInformation\_t:



#### Public Attributes

- [TrackingID\\_t TrackingId](#)
- [TC\\_AudioStatus\\_t Status](#)

#### 10.446.1 Detailed Description

Definition at line 13157 of file DCM.idl.

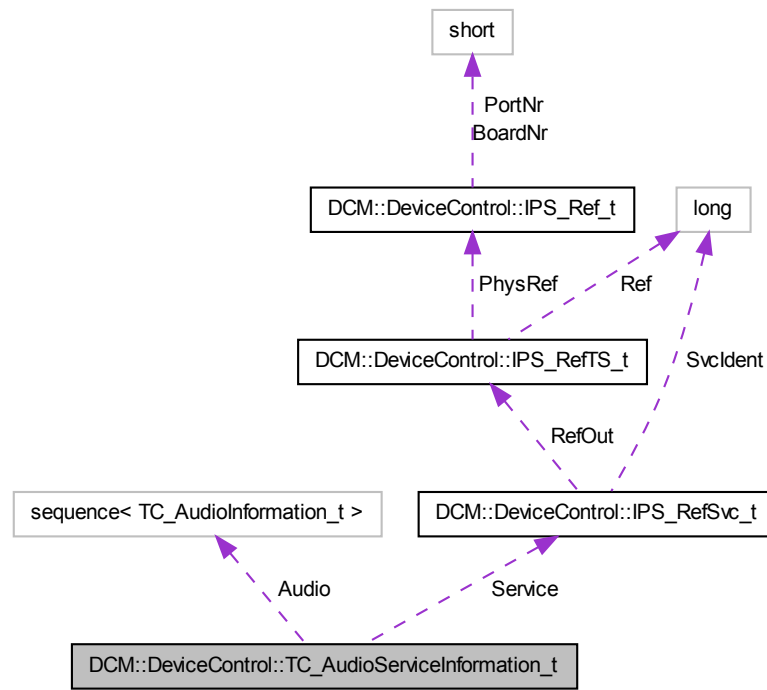
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.447 DCM::DeviceControl::TC\_AudioServiceInformation\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_AudioServiceInformation\_t:



#### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_AudioInformationList\\_t Audio](#)

#### 10.447.1 Detailed Description

Definition at line 13223 of file DCM.idl.

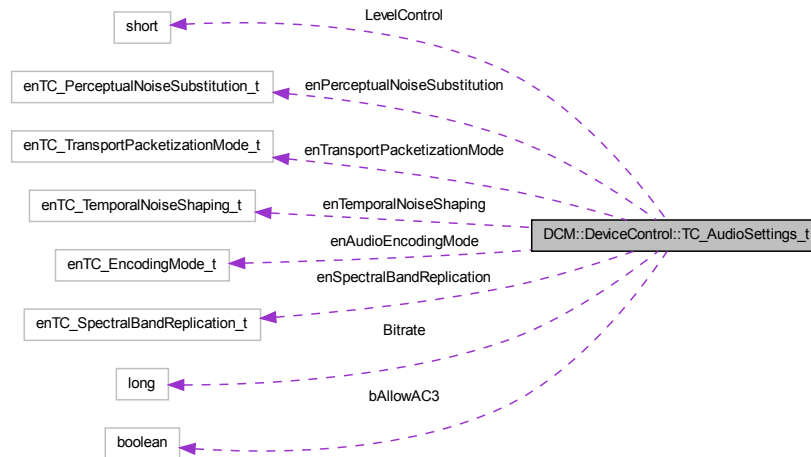
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.448 DCM::DeviceControl::TC\_AudioSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_AudioSettings\_t:



## Public Attributes

- unsigned long [Bitrate](#)  
8 - 128 kbps for HE-AAC, 8 - 576 kbps < for AAC-LC or 8 - 192 kbps for VBR. In bps.
- boolean [bAllowAC3](#)  
Transcode AC-3 input. Requires an AC3 extension license.
- [enTC\\_EncodingMode\\_t](#) [enAudioEncodingMode](#)  
Remark: This setting is ignored, the audio output is always CBR.
- [enTC\\_TemporalNoiseShaping\\_t](#) [enTemporalNoiseShaping](#)
- [enTC\\_SpectralBandReplication\\_t](#) [enSpectralBandReplication](#)  
Cannot be activated if Perceptual Noise Substitution is enabled.
- [enTC\\_PerceptualNoiseSubstitution\\_t](#) [enPerceptualNoiseSubstitution](#)  
Cannot be activated if Spectral Band Replication is enabled.
- [enTC\\_TransportPacketizationMode\\_t](#) [enTransportPacketizationMode](#)
- short [LevelControl](#)

### 10.448.1 Detailed Description

Definition at line 13129 of file DCM.idl.

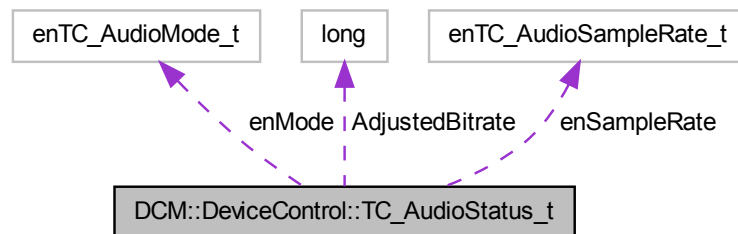
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.449 DCM::DeviceControl::TC\_AudioStatus\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_AudioStatus\_t:



#### Public Attributes

- [enTC\\_AudioSampleRate\\_t](#) `enSampleRate`
- [enTC\\_AudioMode\\_t](#) `enMode`
- unsigned long [AdjustedBitrate](#)

*The real output bitrate, after input mode and sample rate have been taken into account.*

#### 10.449.1 Detailed Description

Definition at line 13142 of file DCM.idl.

The documentation for this struct was generated from the following file:

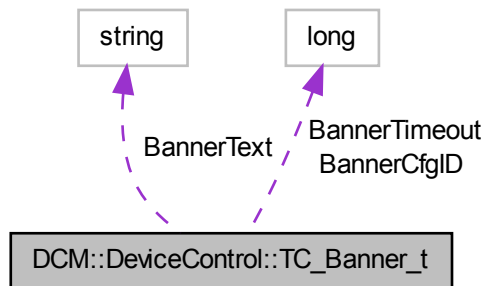
- [DCM.idl](#)

#### 10.450 DCM::DeviceControl::TC\_Banner\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::TC\_Banner\_t:



### Public Attributes

- [BannerCfgID\\_t BannerCfgID](#)
- string [BannerText](#)  
*Encoded in ASCII For an empty text (no characters), the banner text will be used as defined in the corresponding banner configuration.*
- unsigned long [BannerTimeout](#)  
*Time (in seconds) the banner may remain on screen. (0 for no timeout) < The banner is removed if the loop count or timeout is reached, whichever is first.*

### 10.450.1 Detailed Description

Definition at line 13985 of file DCM.idl.

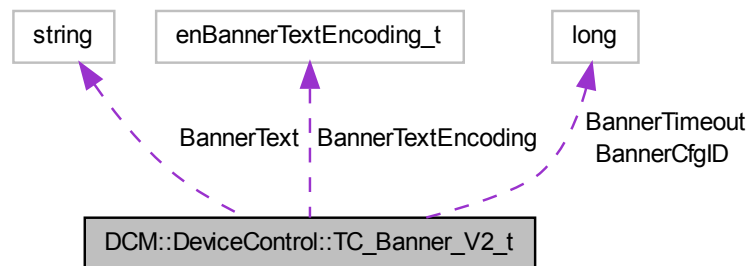
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.451 DCM::DeviceControl::TC\_Banner\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_Banner\_V2\_t:



### Public Attributes

- [BannerCfgID\\_t BannerCfgID](#)
- string [BannerText](#)  
*Encoded according to BannerTextEncoding For an empty text (no characters), the banner text will be used as defined in the corresponding banner configuration.*
- unsigned long [BannerTimeout](#)  
*Time (in seconds) the banner may remain on screen. (0 for no timeout) < The banner is removed if the loop count or timeout is reached, whichever is first.*
- [enBannerTextEncoding\\_t BannerTextEncoding](#)  
*Encoding of the BannerText.*

### 10.451.1 Detailed Description

Definition at line 13996 of file DCM.idl.

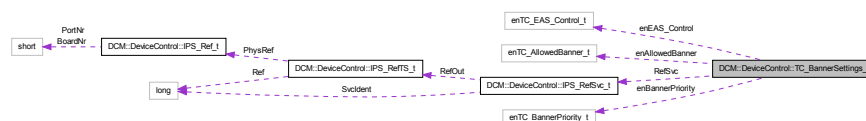
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.452 DCM::DeviceControl::TC\_BannerSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_BannerSettings\_t:



**Public Attributes**

- [IPS\\_RefSvc\\_t RefSvc](#)
- [enTC\\_AllowedBanner\\_t enAllowedBanner](#)
- [enTC\\_BannerPriority\\_t enBannerPriority](#)
- [enTC\\_EAS\\_Control\\_t enEAS\\_Control](#)

*Only affects banners triggered through [StartEAS\(\)](#)*

**10.452.1 Detailed Description**

Definition at line 14038 of file DCM.idl.

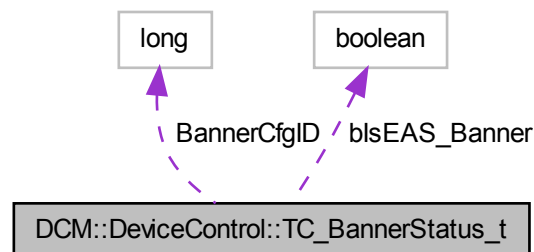
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

**10.453 DCM::DeviceControl::TC\_BannerStatus\_t Struct Reference**

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_BannerStatus\_t:

**Public Attributes**

- [BannerCfgID\\_t BannerCfgID](#)  
*The configuration of the active banner.*
- boolean [blsEAS\\_Banner](#)  
*True if the banner is an EAS alert banner.*

**10.453.1 Detailed Description**

Definition at line 14047 of file DCM.idl.

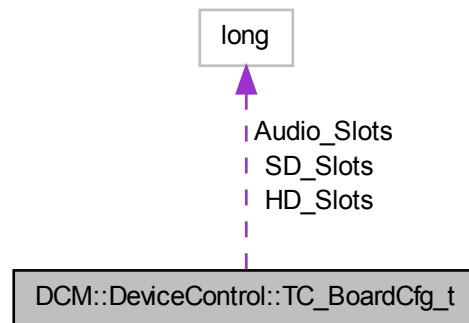
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.454 DCM::DeviceControl::TC\_BoardCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_BoardCfg\_t:



### Public Attributes

- unsigned long [HD\\_Slots](#)
- unsigned long [SD\\_Slots](#)
- unsigned long [Audio\\_Slots](#)

### 10.454.1 Detailed Description

Definition at line 12831 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

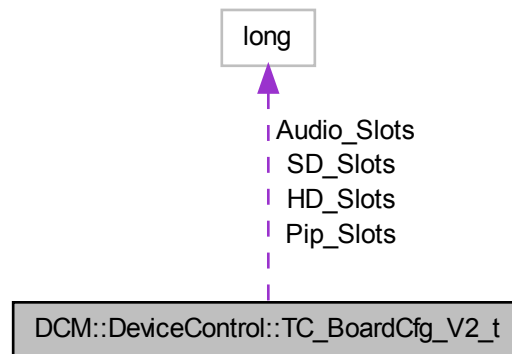
- [DCM.idl](#)

## 10.455 DCM::DeviceControl::TC\_BoardCfg\_V2\_t Struct Reference

Structure to set/get transcoder board configuration.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_BoardCfg\_V2\_t:



#### Public Attributes

- unsigned long [HD\\_Slots](#)
- unsigned long [SD\\_Slots](#)
- unsigned long [Audio\\_Slots](#)
- unsigned long [Pip\\_Slots](#)

#### 10.455.1 Detailed Description

Structure to set/get transcoder board configuration.

#### Version

Release 8.1

Definition at line 12849 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

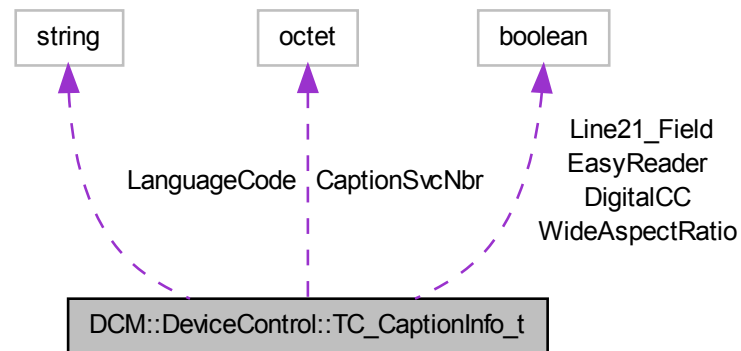
- [DCM.idl](#)

#### 10.456 DCM::DeviceControl::TC\_CaptionInfo\_t Struct Reference

Configuration settings for a Closed Caption Service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_CaptionInfo\_t:



### Public Attributes

- string [LanguageCode](#)  
*ISO\_639\_language\_code. Fixed length of 3 bytes !*
- boolean [DigitalCC](#)  
*0 means line21 caption service*
- boolean [Line21\\_Field](#)  
*Only interpreted if DigitalCC == 0. 0 means field 1, else field 2.*
- octet [CaptionSvcNbr](#)  
*value in the range 1 to 63. Only interpreted if DigitalCC == 1*
- boolean [EasyReader](#)  
*1 means tailored for easy reading*
- boolean [WideAspectRatio](#)  
*1 means 16:9 format; 0 means 4:3 format*

### 10.456.1 Detailed Description

Configuration settings for a Closed Caption Service.

Definition at line 10171 of file DCM.idl.

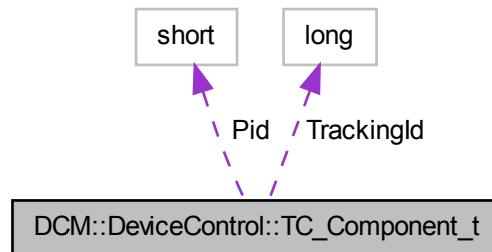
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.457 DCM::DeviceControl::TC\_Component\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_Component\_t:



#### Public Attributes

- unsigned short [Pid](#)
- [TrackingID\\_t](#) `TrackingId`  
*0 if the component matches no tracking criteria.*

#### 10.457.1 Detailed Description

Definition at line 13230 of file `DCM.idl`.

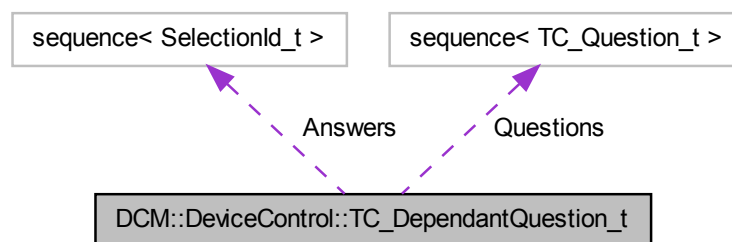
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.458 DCM::DeviceControl::TC\_DependantQuestion\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_DependantQuestion\_t:



**Public Attributes**

- [SelectionIdList\\_t](#) Answers
- [TC\\_QuestionList\\_t](#) Questions

**10.458.1 Detailed Description**

Definition at line 12893 of file DCM.idl.

The documentation for this struct was generated from the following file:

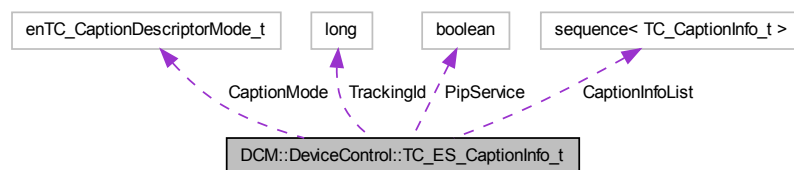
- [DCM.idl](#)

**10.459 DCM::DeviceControl::TC\_ES\_CaptionInfo\_t Struct Reference**

Configuration settings for the Caption Service Descriptor of an ES.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_ES\_CaptionInfo\_t:

**Public Attributes**

- [TrackingID\\_t](#) TrackingId  
*Identifies the elementary stream where the Caption Service Descriptor should be added to.*
- boolean [PipService](#)  
*0 means for main service; 1 means for PIP service*
- [enTC\\_CaptionDescriptorMode\\_t](#) CaptionMode
- [TC\\_CaptionInfoList\\_t](#) CaptionInfoList  
*factory default: empty list. In "Add" mode, a non-empty list must be present.*

**10.459.1 Detailed Description**

Configuration settings for the Caption Service Descriptor of an ES.

Definition at line 13247 of file DCM.idl.

The documentation for this struct was generated from the following file:

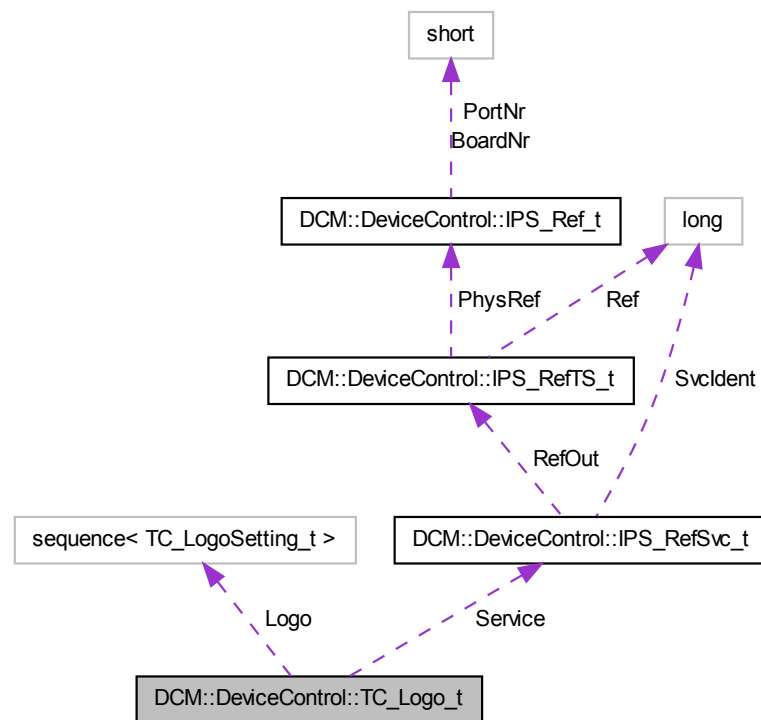
- [DCM.idl](#)



## 10.460 DCM::DeviceControl::TC\_Logo\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_Logo\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_LogoSettingList\\_t Logo](#)

## 10.460.1 Detailed Description

Definition at line 14071 of file `DCM.idl`.

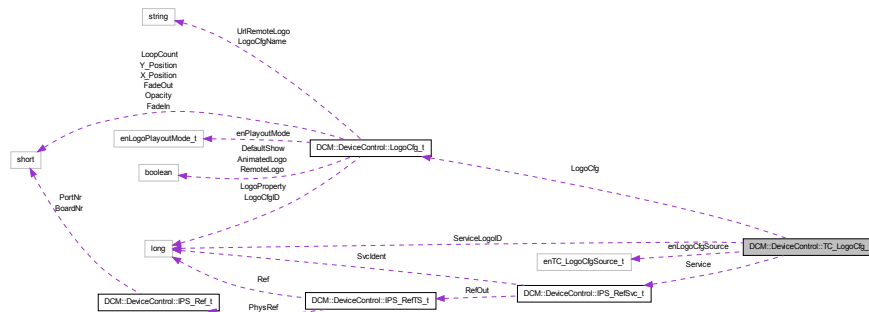
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.461 DCM::DeviceControl::TC\_LogoCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_LogoCfg\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_ServiceLogoID\\_t ServiceLogoID](#)
- [LogoCfg\\_t LogoCg](#)
- [enTC\\_LogoCgSource\\_t enLogoCgSource](#)

#### 10.461.1 Detailed Description

Definition at line 14093 of file DCM.idl.

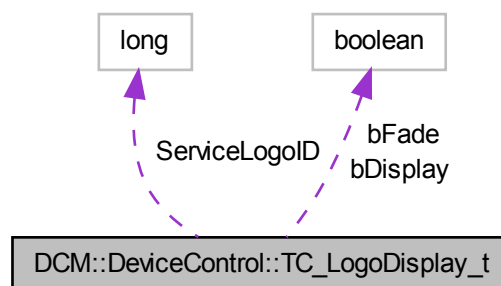
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.462 DCM::DeviceControl::TC\_LogoDisplay\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_LogoDisplay\_t:



## Public Attributes

- [TC\\_ServiceLogoID\\_t ServiceLogoID](#)
- boolean [bDisplay](#)  
*True if the logo should be inserted in the video.*
- boolean [bFade](#)  
*True if the fade in/out time should be respected. False for instant changes.*

## 10.462.1 Detailed Description

Definition at line 14078 of file DCM.idl.

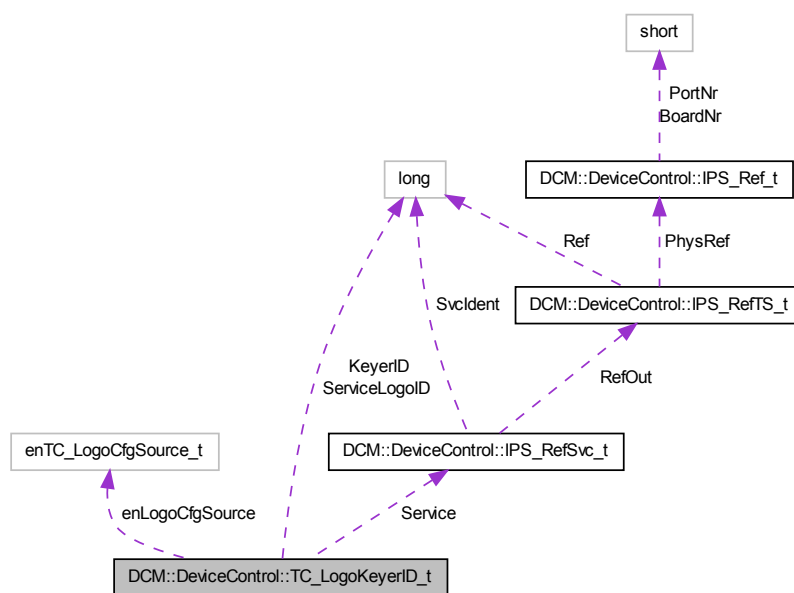
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.463 DCM::DeviceControl::TC\_LogoKeyerID\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_LogoKeyerID\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t Service](#)  
*read-only*
- [TC\\_ServiceLogoID\\_t ServiceLogoID](#)

*read-only*

- [TC\\_KeyerID\\_t](#) KeyerID
- [enTC\\_LogoCfgSource\\_t](#) enLogoCfgSource

*read-only*

### 10.463.1 Detailed Description

Definition at line 14103 of file DCM.idl.

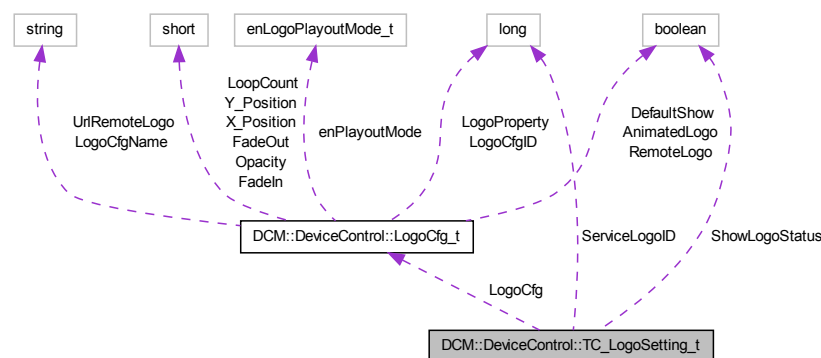
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.464 DCM::DeviceControl::TC\_LogoSetting\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_LogoSetting\_t:



### Public Attributes

- [TC\\_ServiceLogoID\\_t](#) ServiceLogoID
- [LogoCfg\\_t](#) LogoCfg
- *logo configuration*
- boolean [ShowLogoStatus](#)
- *Is the logo currently show in the video?*

### 10.464.1 Detailed Description

Definition at line 14063 of file DCM.idl.

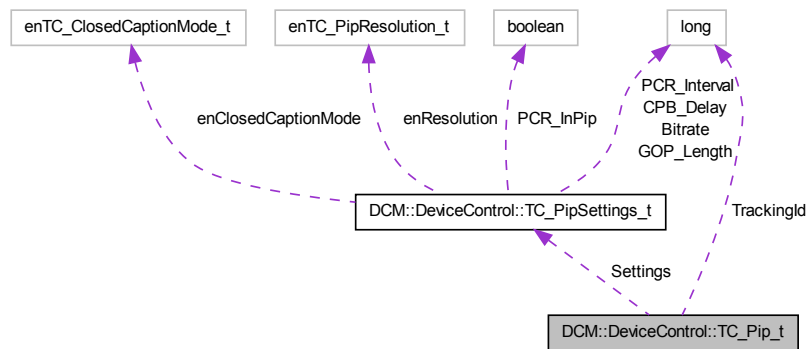
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.465 DCM::DeviceControl::TC\_Pip\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_Pip\_t:



## Public Attributes

- [TrackingID\\_t TrackingId](#)

*Must be equal to the tracking ID of a video decode (preferred) or the tracking ID of a video transcode (deprecated).*

- [TC\\_PipSettings\\_t Settings](#)

## 10.465.1 Detailed Description

Definition at line 13119 of file DCM.idl.

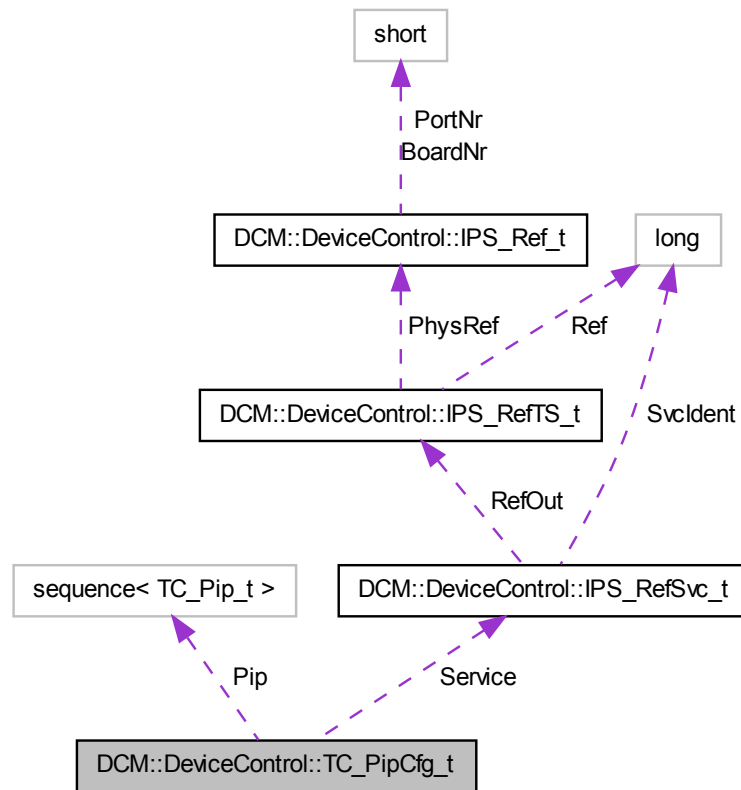
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.466 DCM::DeviceControl::TC\_PipCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_PipCfg\_t:



#### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_PipList\\_t Pip](#)

#### 10.466.1 Detailed Description

Definition at line 13209 of file `DCM.idl`.

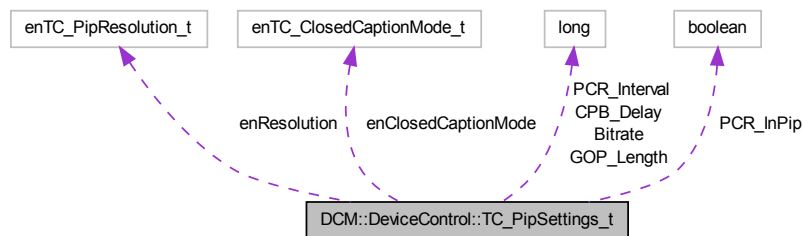
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.467 DCM::DeviceControl::TC\_PipSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_PipSettings\_t:



### Public Attributes

- [enTC\\_PipResolution\\_t enResolution](#)  
*Output resolution.*
- unsigned long [Bitrate](#)  
*150 - 400kbps, in bps.*
- unsigned long [GOP\\_Length](#)  
*Lenght of the GOP. 1 - 30 frames.*
- unsigned long [CPB\\_Delay](#)  
*Maximum CPB removal delay, in ms. 500 - 1500 ms, and between (service delay - 1306) and (service delay - 452).*
- [enTC\\_ClosedCaptionMode\\_t enClosedCaptionMode](#)  
*Closed caption transcoding mode.*
- unsigned long [PCR\\_Interval](#)  
*10 - 300 ms, in ms.*
- boolean [PCR\\_InPip](#)  
*Should the PCR be part of a PIP packet or should it use an empty packet (on the same PID).*

#### 10.467.1 Detailed Description

Definition at line 13108 of file DCM.idl.

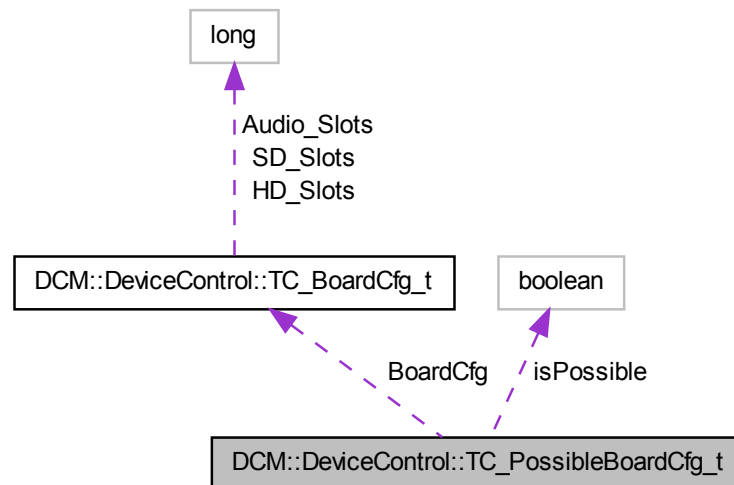
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.468 DCM::DeviceControl::TC\_PossibleBoardCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_PossibleBoardCfg\_t:



#### Public Attributes

- boolean [isPossible](#)  
*Is it possible to apply this board configuration.*
- [TC\\_BoardCfg\\_t](#) [BoardCfg](#)

#### 10.468.1 Detailed Description

Definition at line 12838 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

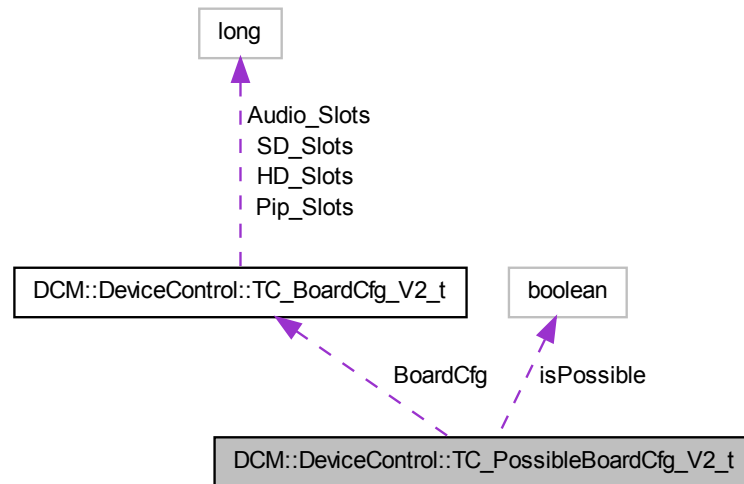
## 10.469 DCM::DeviceControl::TC\_PossibleBoardCfg\_V2\_t Struct Reference

Structure to get possible board configurations for a transcoder board.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::TC\_PossibleBoardCfg\_V2\_t:



### Public Attributes

- boolean [isPossible](#)  
*Is it possible to apply this board configuration.*
- [TC\\_BoardCfg\\_V2\\_t](#) [BoardCfg](#)

### 10.469.1 Detailed Description

Structure to get possible board configurations for a transcoder board.

### Version

Release 8.1

Definition at line 12860 of file DCM.idl.

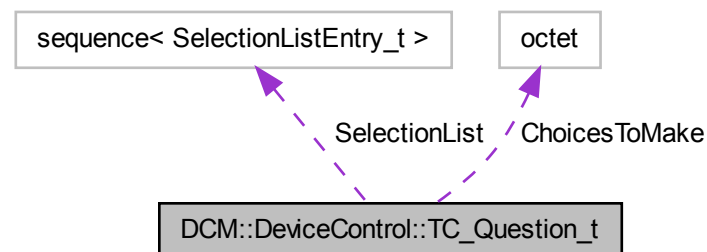
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.470 DCM::DeviceControl::TC\_Question\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_Question\_t:



#### Public Attributes

- `octet ChoicesToMake`
- `SelectionList_t SelectionList`

#### 10.470.1 Detailed Description

Definition at line 12886 of file `DCM.idl`.

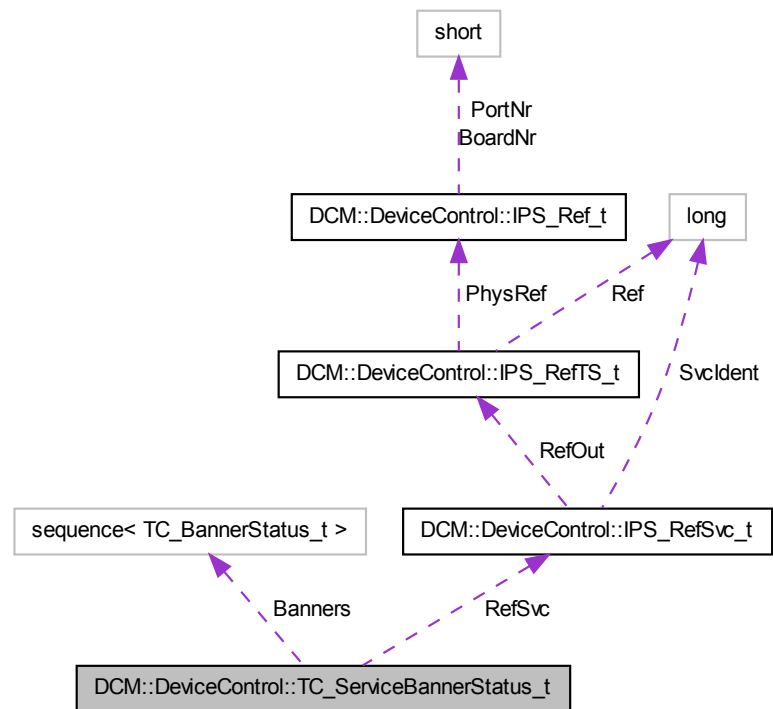
The documentation for this struct was generated from the following file:

- `DCM.idl`

#### 10.471 DCM::DeviceControl::TC\_ServiceBannerStatus\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_ServiceBannerStatus\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t RefSvc](#)
- [TC\\_BannerStatusList\\_t Banners](#)

*The list of active banners (always zero or one elements)*

### 10.471.1 Detailed Description

Definition at line 14054 of file `DCM.idl`.

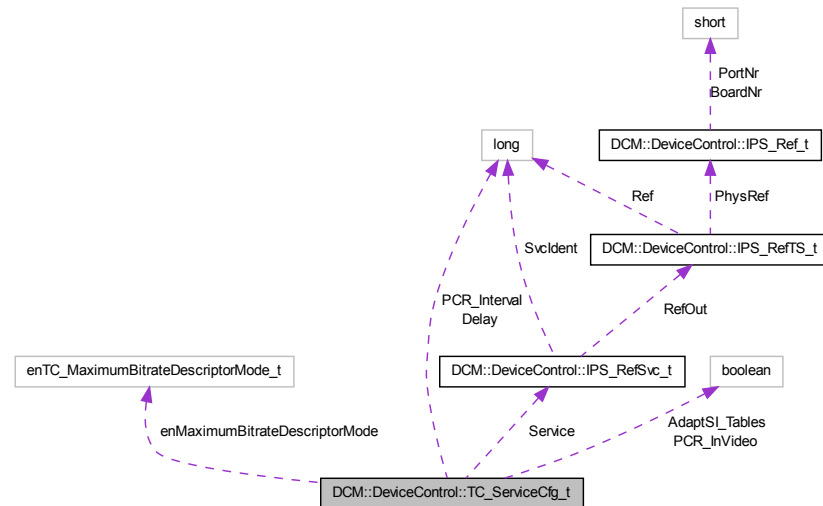
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.472 DCM::DeviceControl::TC\_ServiceCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_ServiceCfg\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [enTC\\_MaximumBitrateDescriptorMode\\_t enMaximumBitrateDescriptorMode](#)
- unsigned long [Delay](#)  
*1000 - 2800 ms (Total delay), in ms. See [TC\\_VideoSettings\\_t::CPB\\_Delay](#) for additional restrictions.*
- unsigned long [PCR\\_Interval](#)  
*10 - 300 ms, in ms.*
- boolean [PCR\\_InVideo](#)  
*Should the PCR be part of a video packet or should it use an empty packet (on the same PID).*
- boolean [AdaptSI\\_Tables](#)  
*Default true : will automatically adapt PMT, EIT and SDT tables where necessary.*

#### 10.472.1 Detailed Description

Definition at line 13170 of file DCM.idl.

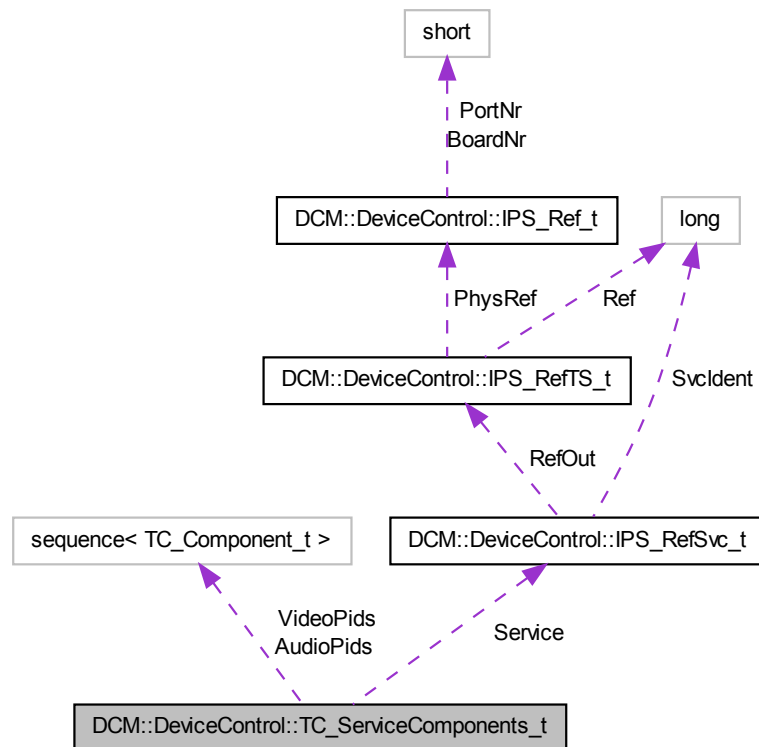
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.473 DCM::DeviceControl::TC\_ServiceComponents\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_ServiceComponents\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_ComponentList\\_t VideoPids](#)  
*The video pids which can be transcoded.*
- [TC\\_ComponentList\\_t AudioPids](#)  
*The audio pids which can be transcoded.*

### 10.473.1 Detailed Description

Definition at line 13237 of file DCM.idl.

The documentation for this struct was generated from the following file:

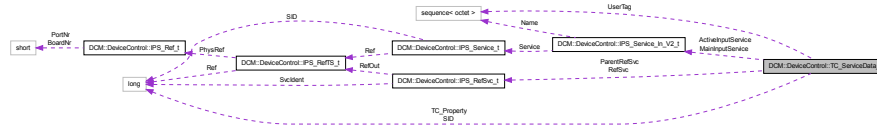
- [DCM.idl](#)

## 10.474 DCM::DeviceControl::TC\_ServiceData\_t Struct Reference

Structure with service data for a transcoder board.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_ServiceData\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t RefSvc](#)  
*Read only : The RefSvc of this service, either main or PIP (PIP not supported in Version 7.01)*
- [IPS\\_RefSvc\\_t ParentRefSvc](#)  
*Read only : The RefSvc of the main service. If RefSvc == ParentRefSvc, this is a main service. For PIP RefSvc <> ParentRefSvc.*
- [ServiceId\\_t SID](#)  
*Read only : The SID of the service.*
- unsigned long [TC\\_Property](#)  
*Read only Bitmap used by GUI to display < Bit 0: Service present at input (true) or not (false). < Bit 4: at least one of the source input PIDs of this service is scrambled < Bit 5: TRUE if service is in backup < Bit 6: TRUE if Service Loss Alarm is active. < Bit 29: TRUE if service can't be deleted (e.g. because it's passed to an output) < Bit 30: TRUE if transcoding is enabled on one of the components of the Service < TRUE if service on a MFP board is processing (transrating/transcoding) audio or video < Bit 31: TRUE if Service contains VBI (future) (same bit as in [IPS\\_Service\\_In\\_t](#))*
- [IPS\\_Service\\_In\\_V2\\_t MainInputService](#)  
*Read only : Reference to the main input service that was used to create the service.*
- [IPS\\_Service\\_In\\_V2\\_t ActiveInputService](#)  
*Read only : can be different from main input service e.g. when service is in backup, ...*
- [DvbString\\_t UserTag](#)  
*Maximum string length 255 characters.*

### 10.474.1 Detailed Description

Structure with service data for a transcoder board.

Definition at line 5000 of file DCM.idl.

The documentation for this struct was generated from the following file:

- DCM.idl

## 10.475 DCM::DeviceControl::TC\_ServiceDataV2\_t Struct Reference

Structure with service data for a transcoder board.

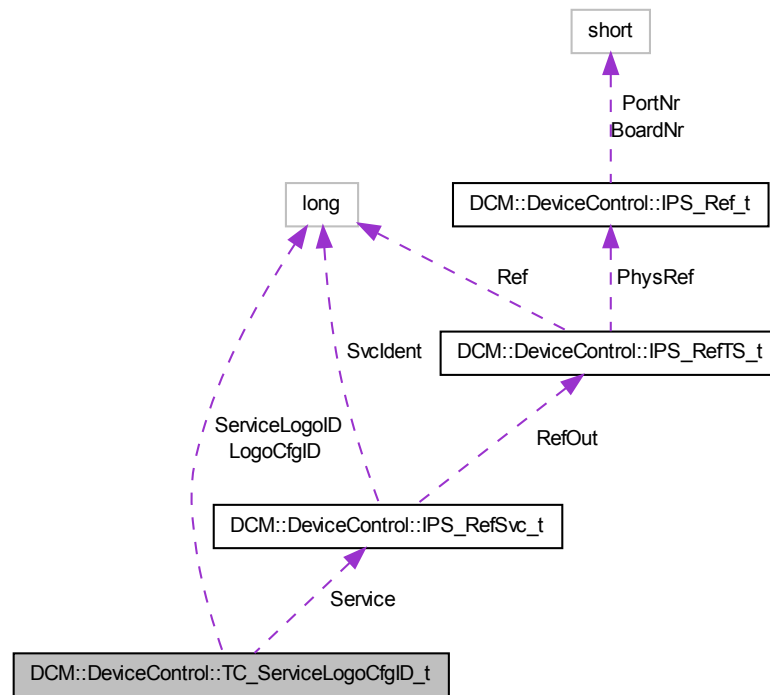
```
import "DCM.idl";
```



## 10.476 DCM::DeviceControl::TC\_ServiceLogoCfgID\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_ServiceLogoCfgID\_t:



## Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_ServiceLogoID\\_t ServiceLogoID](#)
- [LogoCfgID\\_t LogoCfgID](#)

## 10.476.1 Detailed Description

Definition at line 14112 of file DCM.idl.

The documentation for this struct was generated from the following file:

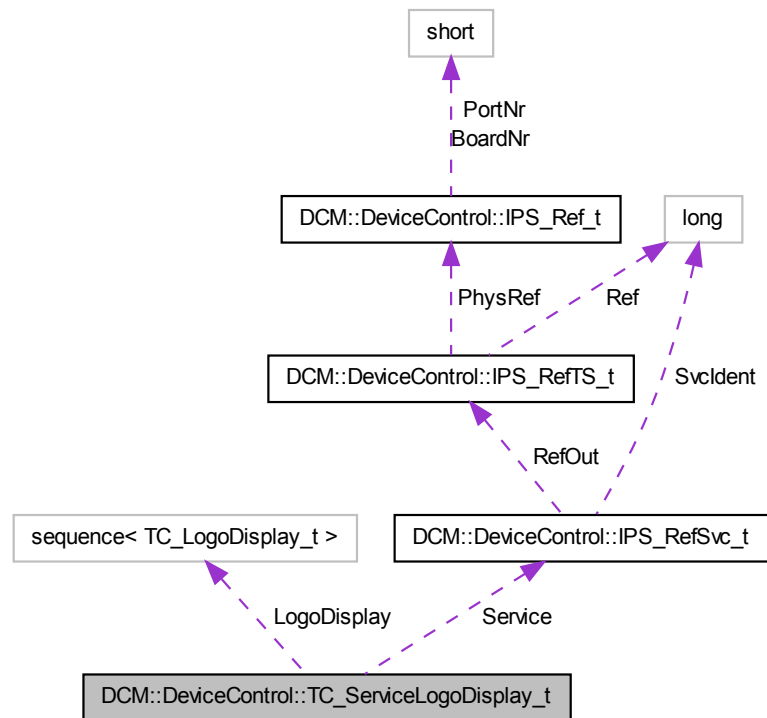
- [DCM.idl](#)

## 10.477 DCM::DeviceControl::TC\_ServiceLogoDisplay\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::TC\_ServiceLogoDisplay\_t:



#### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_LogoDisplayList\\_t LogoDisplay](#)

#### 10.477.1 Detailed Description

Definition at line 14086 of file DCM.idl.

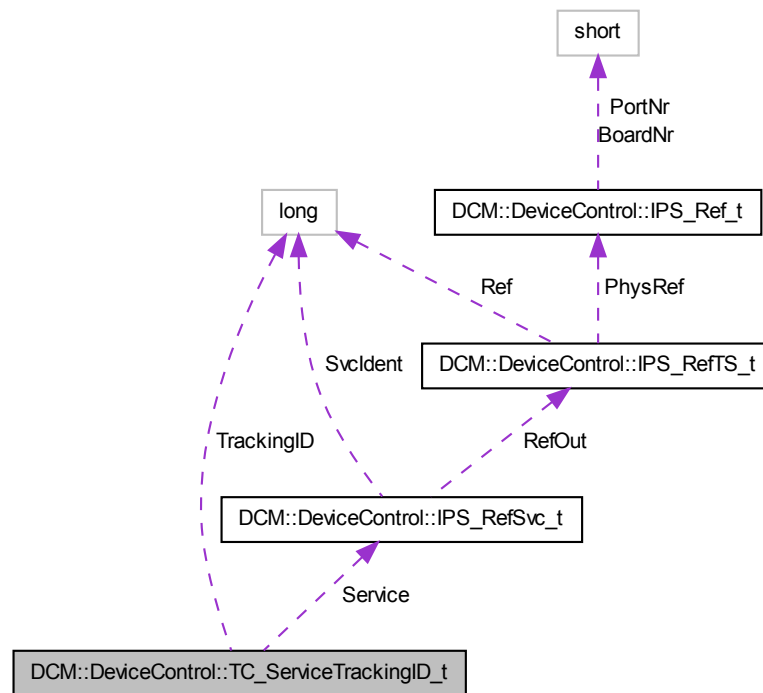
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.478 DCM::DeviceControl::TC\_ServiceTrackingID\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_ServiceTrackingID\_t:



#### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TrackingID\\_t TrackingID](#)

#### 10.478.1 Detailed Description

Definition at line 13000 of file DCM.idl.

The documentation for this struct was generated from the following file:

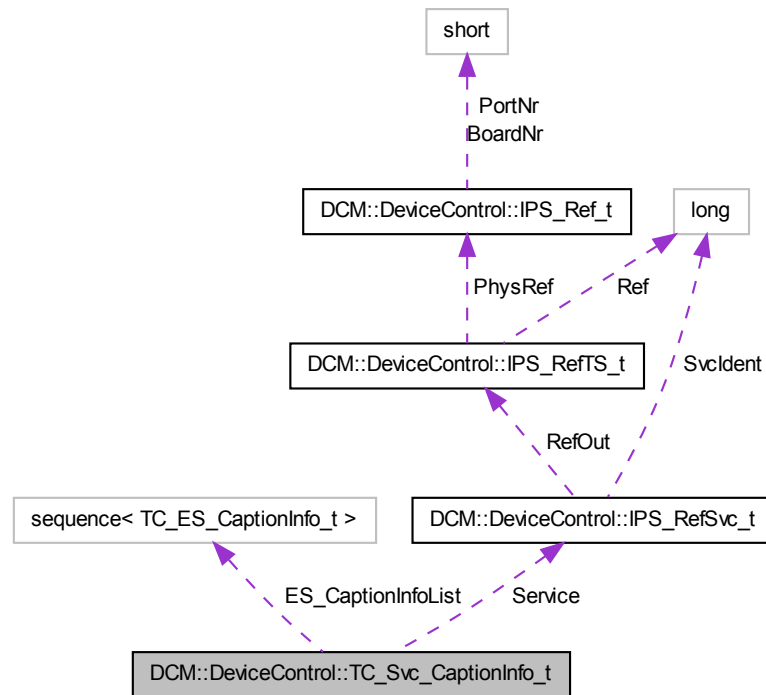
- [DCM.idl](#)

#### 10.479 DCM::DeviceControl::TC\_Svc\_CaptionInfo\_t Struct Reference

Configuration settings for the Caption Service Descriptor(s) of a service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_Svc\_CaptionInfo\_t:



#### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_ES\\_CaptionInfoList\\_t ES\\_CaptionInfoList](#)

#### 10.479.1 Detailed Description

Configuration settings for the Caption Service Descriptor(s) of a service.

Definition at line 13258 of file DCM.idl.

The documentation for this struct was generated from the following file:

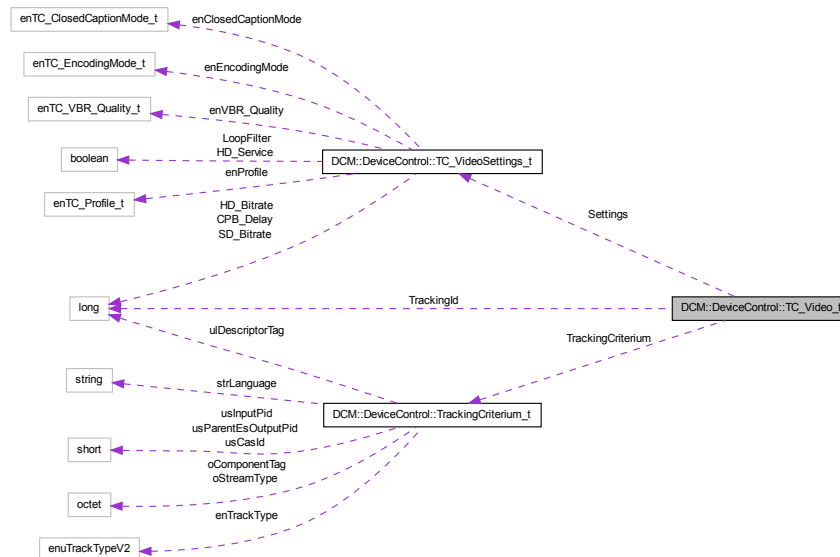
- [DCM.idl](#)

#### 10.480 DCM::DeviceControl::TC\_Video\_t Struct Reference

Video transcode settings together with fields identifying the video component they're for.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_Video\_t:



## Public Attributes

- [TrackingID\\_t TrackingId](#)  
*0 when creating a new entry*
- [TrackingCriterium\\_t TrackingCriterium](#)
- [TC\\_VideoSettings\\_t Settings](#)

### 10.480.1 Detailed Description

Video transcode settings together with fields identifying the video component they're for.

**Deprecated** The types [TC\\_VideoDecode\\_t](#) and [TC\\_VideoEncode\\_t](#) should be used instead of this type.

## Version

Release 7.5

Definition at line 13093 of file DCM.idl.

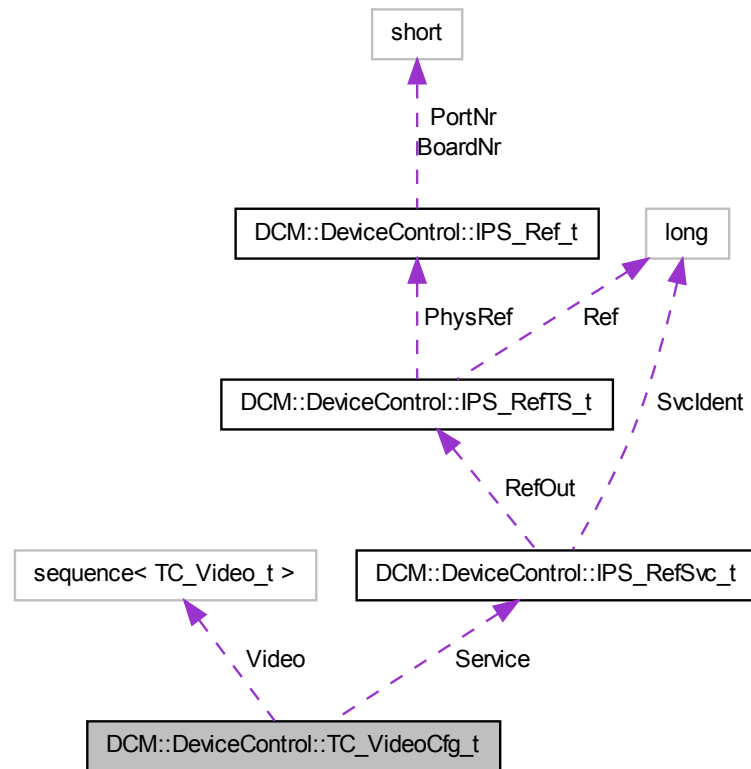
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.481 DCM::DeviceControl::TC\_VideoCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_VideoCfg\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_VideoList\\_t Video](#)

### 10.481.1 Detailed Description

Definition at line 13195 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

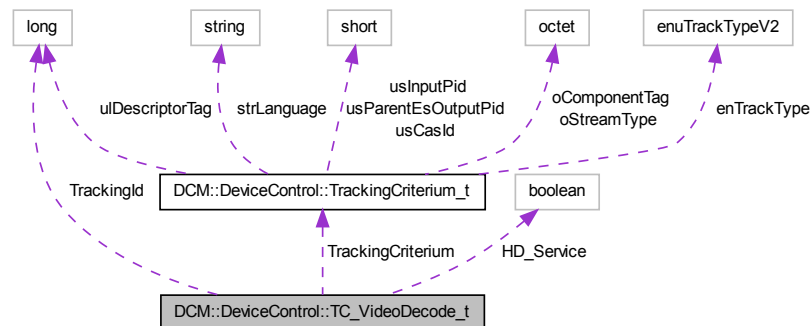
- [DCM.idl](#)

## 10.482 DCM::DeviceControl::TC\_VideoDecode\_t Struct Reference

Video decode settings together with fields identifying the video component they're for.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_VideoDecode\_t:



### Public Attributes

- [TrackingID\\_t TrackingId](#)  
*0 when creating a new entry*
- [TrackingCriterium\\_t TrackingCriterium](#)
- boolean [HD\\_Service](#)  
*If set both SD and HD services can be transcoded.*

### 10.482.1 Detailed Description

Video decode settings together with fields identifying the video component they're for.

### Version

Release 8.2

Definition at line 13029 of file DCM.idl.

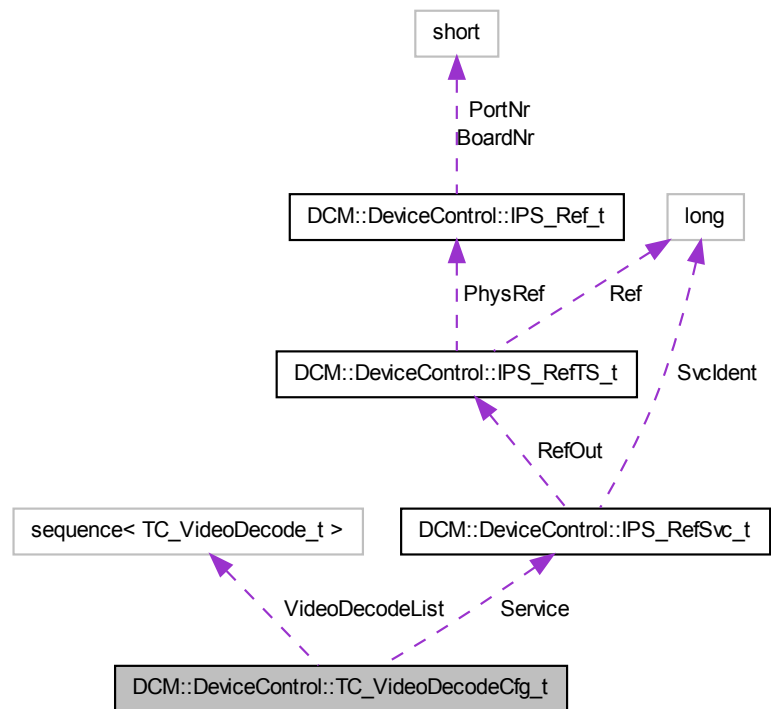
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.483 DCM::DeviceControl::TC\_VideoDecodeCfg\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_VideoDecodeCfg\_t:



#### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_VideoDecodeList\\_t VideoDecodeList](#)

#### 10.483.1 Detailed Description

Definition at line 13181 of file DCM.idl.

The documentation for this struct was generated from the following file:

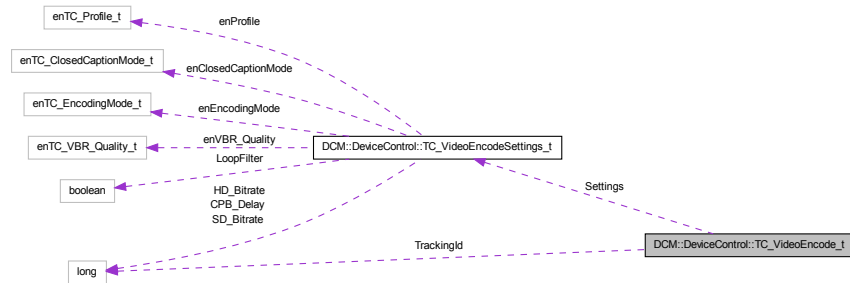
- [DCM.idl](#)

#### 10.484 DCM::DeviceControl::TC\_VideoEncode\_t Struct Reference

Video encode settings together with field identifying the video component they're for.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_VideoEncode\_t:



## Public Attributes

- [TrackingID\\_t TrackingId](#)  
*Must be equal to the tracking ID of a video decode.*
- [TC\\_VideoEncodeSettings\\_t Settings](#)

## 10.484.1 Detailed Description

Video encode settings together with field identifying the video component they're for.

## Version

Release 8.2

Definition at line 13045 of file DCM.idl.

The documentation for this struct was generated from the following file:

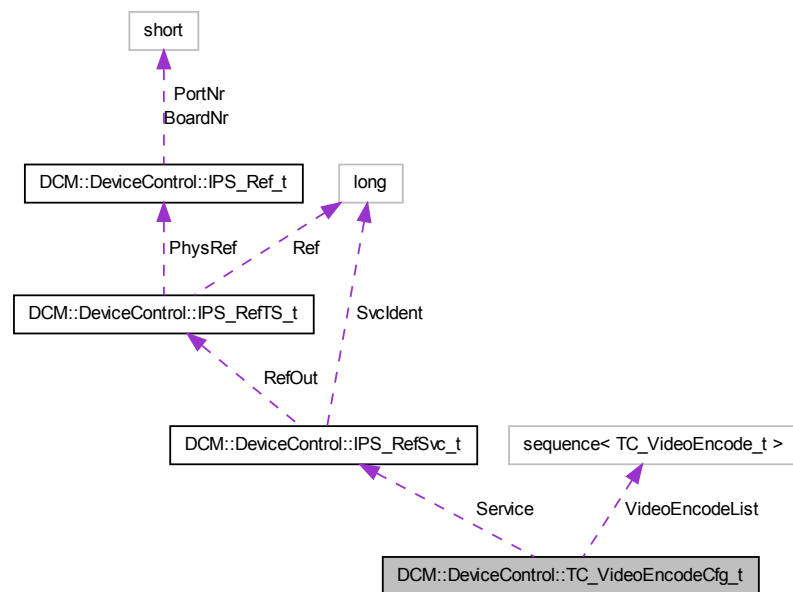
- [DCM.idl](#)

## 10.485 DCM::DeviceControl::TC\_VideoEncodeCfg\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::TC\_VideoEncodeCfg\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_VideoEncodeList\\_t VideoEncodeList](#)

### 10.485.1 Detailed Description

Definition at line 13188 of file DCM.idl.

The documentation for this struct was generated from the following file:

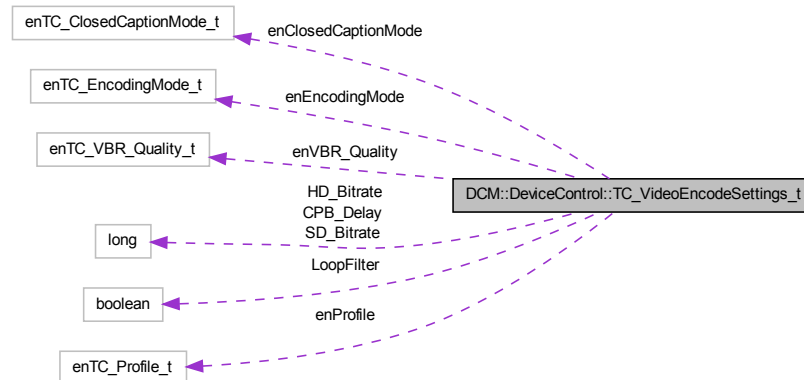
- [DCM.idl](#)

## 10.486 DCM::DeviceControl::TC\_VideoEncodeSettings\_t Struct Reference

Video encode settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_VideoEncodeSettings\_t:



## Public Attributes

- [enTC\\_Profile\\_t](#) [enProfile](#)  
*Applies if the input is SD. The HD output is always high profile.*
- unsigned long [SD\\_Bitrate](#)  
*1.0 - 3.5Mbps, in bps. (Used whenever the input is SD, even if HD\_Service is true).*
- unsigned long [HD\\_Bitrate](#)  
*5.0 - 12.0Mbps, in bps.*
- boolean [LoopFilter](#)
- unsigned long [CPB\\_Delay](#)  
*Maximum CPB removal delay, in ms. 500 - 1500 ms, and between (service delay - 1306) and (service delay - 452).*
- [enTC\\_VBR\\_Quality\\_t](#) [enVBR\\_Quality](#)
- [enTC\\_EncodingMode\\_t](#) [enEncodingMode](#)
- [enTC\\_ClosedCaptionMode\\_t](#) [enClosedCaptionMode](#)

### 10.486.1 Detailed Description

Video encode settings.

#### Version

Release 8.2

Definition at line 13011 of file DCM.idl.

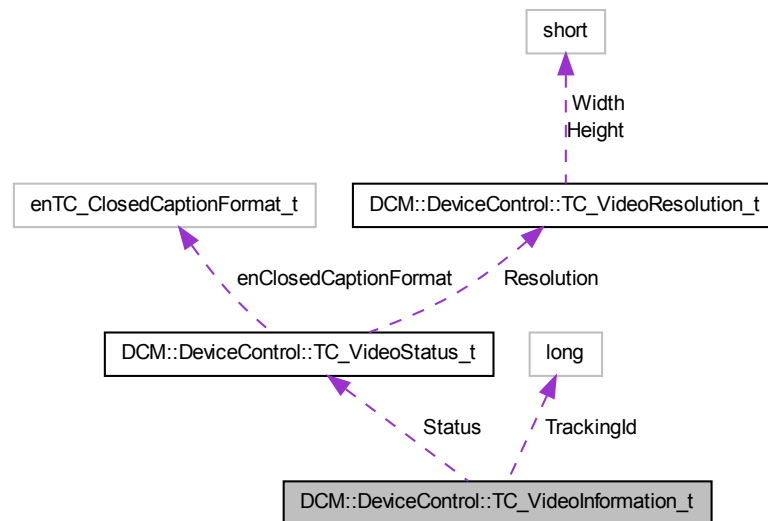
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.487 DCM::DeviceControl::TC\_VideoInformation\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_VideoInformation\_t:



## Public Attributes

- [TrackingID\\_t TrackingId](#)
- [TC\\_VideoStatus\\_t Status](#)

## 10.487.1 Detailed Description

Definition at line 13101 of file DCM.idl.

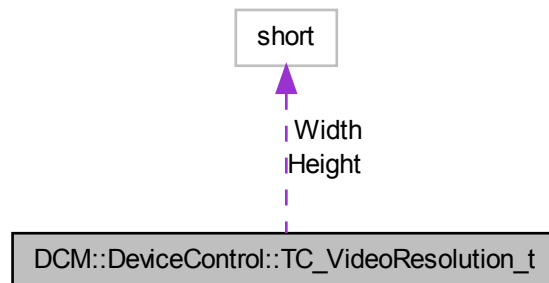
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.488 DCM::DeviceControl::TC\_VideoResolution\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_VideoResolution\_t:



#### Public Attributes

- unsigned short [Height](#)
- unsigned short [Width](#)

#### 10.488.1 Detailed Description

Definition at line 13074 of file `DCM.idl`.

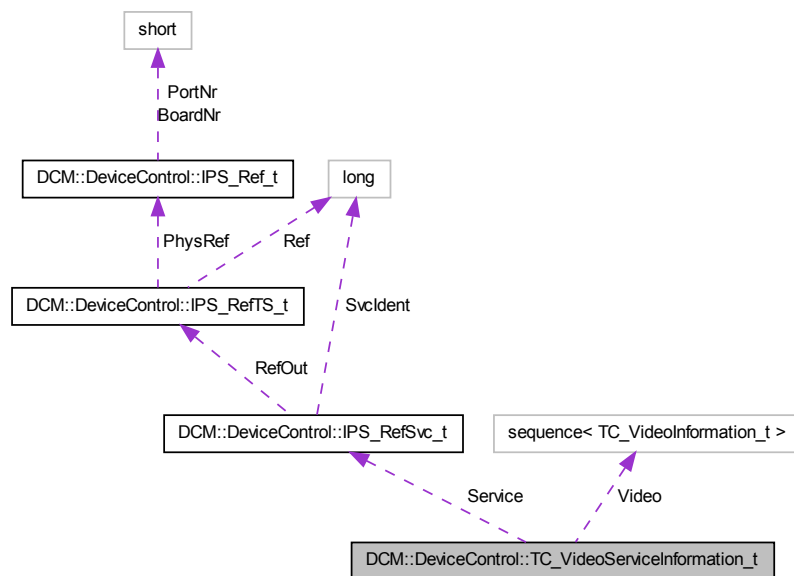
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.489 DCM::DeviceControl::TC\_VideoServiceInformation\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_VideoServiceInformation\_t:



### Public Attributes

- [IPS\\_RefSvc\\_t Service](#)
- [TC\\_VideoInformationList\\_t Video](#)

### 10.489.1 Detailed Description

Definition at line 13202 of file DCM.idl.

The documentation for this struct was generated from the following file:

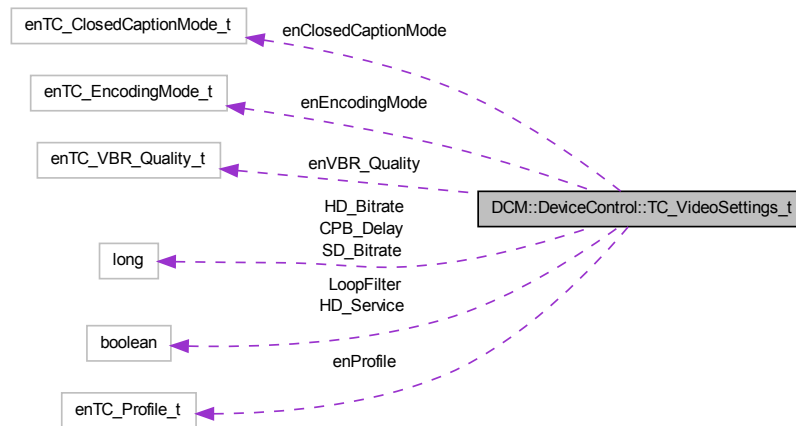
- [DCM.idl](#)

## 10.490 DCM::DeviceControl::TC\_VideoSettings\_t Struct Reference

Video transcode settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_VideoSettings\_t:



## Public Attributes

- [enTC\\_Profile\\_t](#) [enProfile](#)  
*Applies if the input is SD. The HD output is always high profile.*
- unsigned long [SD\\_Bitrate](#)  
*1.0 - 3.5Mbps, in bps. (Used whenever the input is SD, even if HD\_Service is true).*
- unsigned long [HD\\_Bitrate](#)  
*5.0 - 12.0Mbps, in bps.*
- boolean [HD\\_Service](#)  
*If set both SD and HD services can be transcoded. SD services will use SD\_Bitrate, HD services will use HD\_Bitrate.*
- boolean [LoopFilter](#)
- unsigned long [CPB\\_Delay](#)  
*Maximum CPB removal delay, in ms. 500 - 1500 ms, and between (service delay - 1306) and (service delay - 452).*
- [enTC\\_VBR\\_Quality\\_t](#) [enVBR\\_Quality](#)
- [enTC\\_EncodingMode\\_t](#) [enEncodingMode](#)
- [enTC\\_ClosedCaptionMode\\_t](#) [enClosedCaptionMode](#)

## 10.490.1 Detailed Description

Video transcode settings.

This is a combination of video decode and encode settings.

**Deprecated** The types [TC\\_VideoEncodeSettings\\_t](#), [TC\\_VideoDecode\\_t](#) and [TC\\_VideoEncode\\_t](#) should be used instead of this type and [TC\\_Video\\_t](#).

**Version**

Release 7.5

Definition at line 13061 of file DCM.idl.

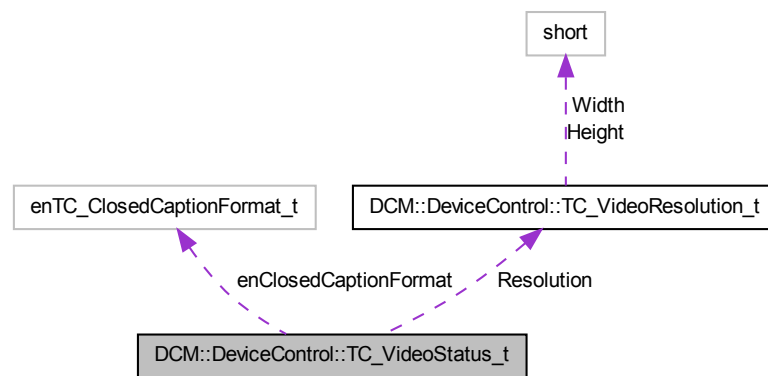
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

**10.491 DCM::DeviceControl::TC\_VideoStatus\_t Struct Reference**

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TC\_VideoStatus\_t:

**Public Attributes**

- [enTC\\_ClosedCaptionFormat\\_t](#) `enClosedCaptionFormat`
- [TC\\_VideoResolution\\_t](#) `Resolution`

**10.491.1 Detailed Description**

Definition at line 13080 of file DCM.idl.

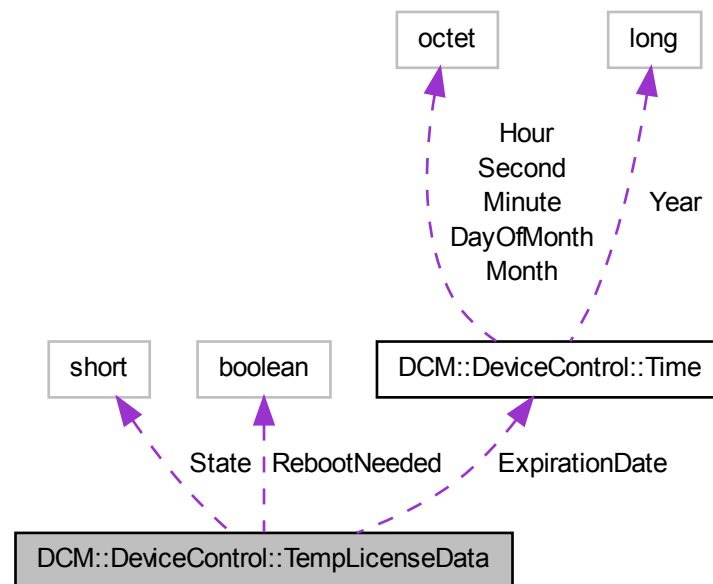
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

**10.492 DCM::DeviceControl::TempLicenseData Struct Reference**

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TempLicenseData:



#### Public Attributes

- [TempLicenseState\\_t State](#)
- [Time ExpirationDate](#)  
*time of expiration of the temporary licenses in the local timezone*
- boolean [RebootNeeded](#)

#### 10.492.1 Detailed Description

Definition at line 20660 of file DCM.idl.

The documentation for this struct was generated from the following file:

- [DCM.idl](#)

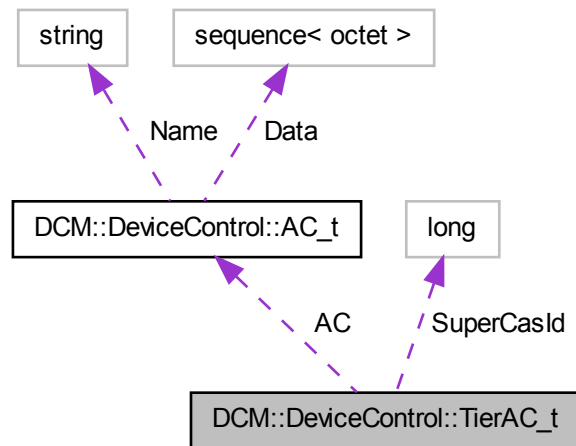
#### 10.493 DCM::DeviceControl::TierAC\_t Struct Reference

Access criteria for tier based scrambling.

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::TierAC\_t:



#### Public Attributes

- unsigned long [SuperCasId](#)  
*SuperCasId of CA system.*
- [AC\\_t](#) [AC](#)  
*Access criteria.*

#### 10.493.1 Detailed Description

Access criteria for tier based scrambling.

Definition at line 27639 of file DCM.idl.

The documentation for this struct was generated from the following file:

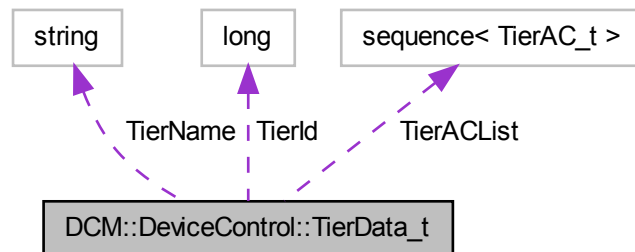
- [DCM.idl](#)

#### 10.494 DCM::DeviceControl::TierData\_t Struct Reference

Tier data.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TierData\_t:



#### Public Attributes

- unsigned long [TierId](#)  
*Tier identification.*
- string [TierName](#)  
*Name for tier.*
- sequence< [TierAC\\_t](#) > [TierACList](#)  
*Access criteria for tier.*

#### 10.494.1 Detailed Description

Tier data.

Definition at line 27646 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

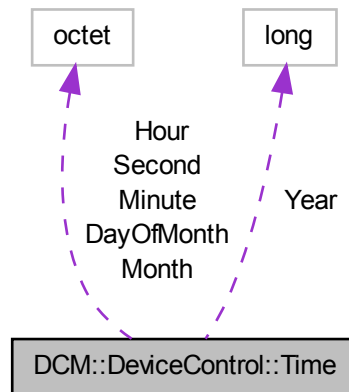
- [DCM.idl](#)

#### 10.495 DCM::DeviceControl::Time Struct Reference

Structure to supply date and time information.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::Time:



### Public Attributes

- long [Year](#)  
*From year 0 onwards.*
- octet [Month](#)  
*From 1 to 12.*
- octet [DayOfMonth](#)  
*From 1 to 28, 29, 30 or 31.*
- octet [Hour](#)  
*From 0 to 23.*
- octet [Minute](#)  
*From 0 to 59.*
- octet [Second](#)  
*From 0 to 59.*

#### 10.495.1 Detailed Description

Structure to supply date and time information.

Definition at line 456 of file `DCM.idl`.

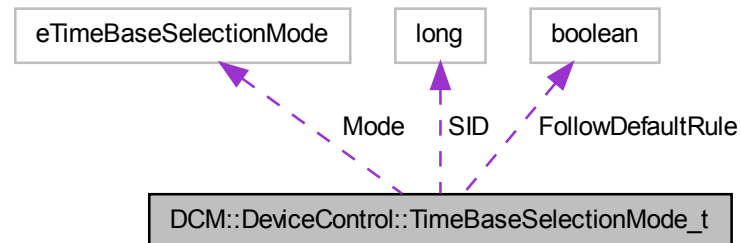
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.496 DCM::DeviceControl::TimeBaseSelectionMode\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TimeBaseSelectionMode\_t:



#### Public Attributes

- [eTimeBaseSelectionMode Mode](#)
- unsigned long [SID](#)  
*Only for eTBS\_ForcedPCR: the ServiceId to be used/that is in use.*
- boolean [FollowDefaultRule](#)  
*Indicates if the TS follows the board level default.*

#### 10.496.1 Detailed Description

**Deprecated** Use V2 structure instead

Definition at line 2945 of file DCM.idl.

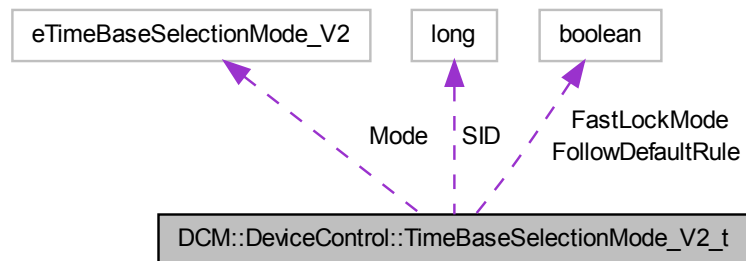
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.497 DCM::DeviceControl::TimeBaseSelectionMode\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TimeBaseSelectionMode\_V2\_t:



#### Public Attributes

- [eTimeBaseSelectionMode\\_V2 Mode](#)
- unsigned long [SID](#)  
*Only for eTBS\_ForcedPCR: the ServiceId to be used/that is in use.*
- boolean [FollowDefaultRule](#)  
*Indicates if the TS follows the board level default.*
- boolean [FastLockMode](#)

#### 10.497.1 Detailed Description

Definition at line 2985 of file DCM.idl.

The documentation for this struct was generated from the following file:

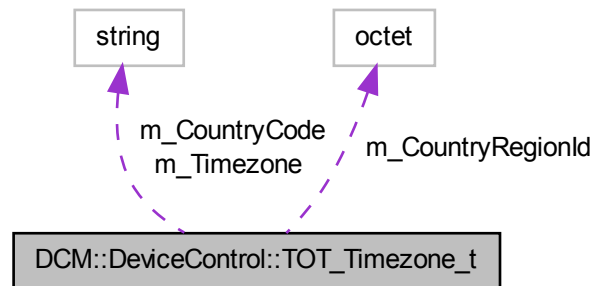
- [DCM.idl](#)

#### 10.498 DCM::DeviceControl::TOT\_Timezone\_t Struct Reference

Structure that represents required data to construct TOT descriptor.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TOT\_Timezone\_t:



#### Public Attributes

- `string m_CountryCode`
- `octet m_CountryRegionId`
- `string m_Timezone`

#### 10.498.1 Detailed Description

Structure that represents required data to construct TOT descriptor.

Definition at line 2761 of file `DCM.idl`.

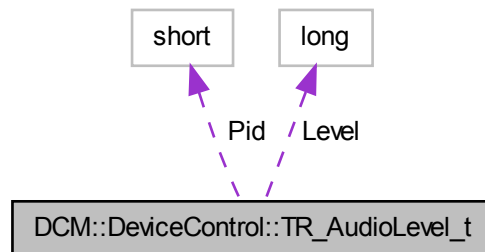
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.499 DCM::DeviceControl::TR\_AudioLevel\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_AudioLevel\_t:



#### Public Attributes

- unsigned short [Pid](#)  
*The PID value (0..8190)*
- long [Level](#)  
*Audio level change, in db. Between -31 and +31 < Positive values indicate amplification, negative ones attenuation.*

#### 10.499.1 Detailed Description

Definition at line 16856 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

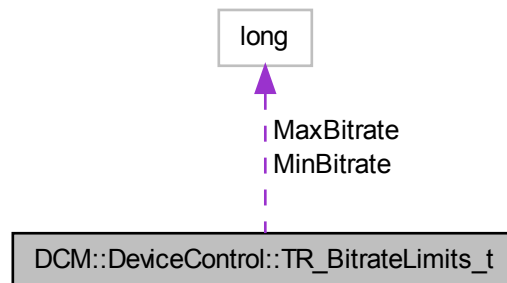
- [DCM.idl](#)

#### 10.500 DCM::DeviceControl::TR\_BitrateLimits\_t Struct Reference

Min - max bitrate boundaries used for service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_BitrateLimits\_t:



#### Public Attributes

- unsigned long [MinBitrate](#)  
*Minimum bitrate in bps.*
- unsigned long [MaxBitrate](#)  
*Maximum bitrate in bps.*

#### 10.500.1 Detailed Description

Min - max bitrate boundaries used for service.

Definition at line 14970 of file DCM.idl.

The documentation for this struct was generated from the following file:

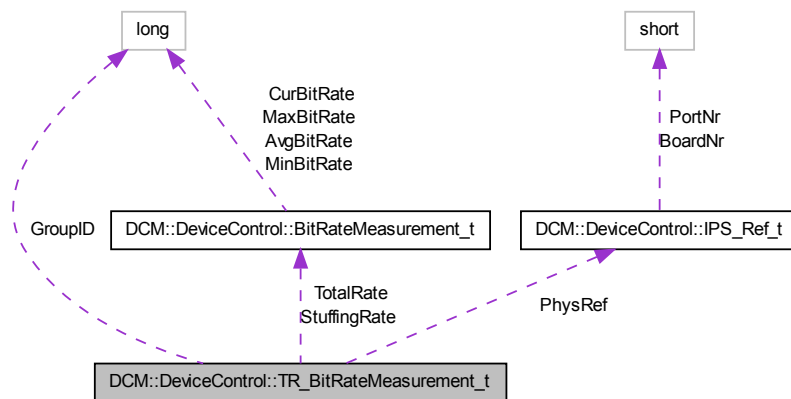
- [DCM.idl](#)

#### 10.501 DCM::DeviceControl::TR\_BitRateMeasurement\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::TR\_BitRateMeasurement\_t:



#### Public Attributes

- [IPS\\_Ref\\_t PhysRef](#)
- unsigned long [GroupID](#)
- [BitRateMeasurement\\_t TotalRate](#)
- [BitRateMeasurement\\_t StuffingRate](#)

#### 10.501.1 Detailed Description

Definition at line 9856 of file DCM.idl.

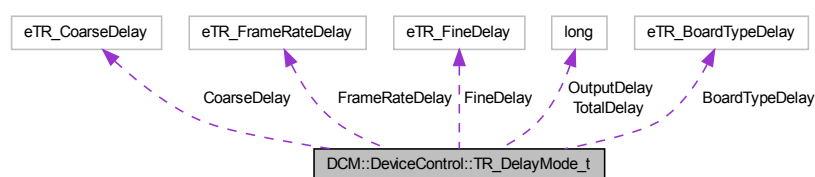
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.502 DCM::DeviceControl::TR\_DelayMode\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_DelayMode\_t:



## Public Attributes

- [eTR\\_CoarseDelay CoarseDelay](#)  
*Coarse setting of the delay of the transrater board. Based on this value, the other values of the structure has to be interpreted.*
- [eTR\\_FrameRateDelay FrameRateDelay](#)  
*One of the possible predefined frame rate delay settings.*
- [eTR\\_BoardTypeDelay BoardTypeDelay](#)  
*One of the possible predefined board delay settings of the input stream.*
- [eTR\\_FineDelay FineDelay](#)  
*One of the possible predefined finer delay settings.*
- unsigned long [TotalDelay](#)  
*Customized setting of the total delay of the transrater board.*
- unsigned long [OutputDelay](#)  
*Customized setting of the delay reserved for the output buffer embedded in the transrater board (modifying this setting can result in worst video quality)*

## 10.502.1 Detailed Description

Definition at line 14949 of file DCM.idl.

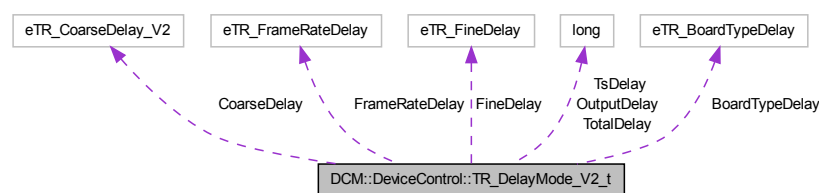
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.503 DCM::DeviceControl::TR\_DelayMode\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_DelayMode\_V2\_t:



## Public Attributes

- [eTR\\_CoarseDelay\\_V2 CoarseDelay](#)  
*Coarse setting of the delay of the transrater board. Based on this value, the other values of the structure has to be interpreted.*
- [eTR\\_FrameRateDelay FrameRateDelay](#)  
*One of the possible predefined frame rate delay settings.*
- [eTR\\_BoardTypeDelay BoardTypeDelay](#)

*One of the possible predefined board delay settings of the input stream.*

- [eTR\\_FineDelay](#) [FineDelay](#)

*One of the possible predefined finer delay settings.*

- unsigned long [TotalDelay](#)

*Customized setting of the total delay of the transrater board.*

- unsigned long [OutputDelay](#)

*Customized setting of the delay reserved for the output buffer embedded in the transrater board (modifying this setting can result in worst video quality)*

- unsigned long [TsDelay](#)

*Customized setting of the TS delay (CoarseDelay = eTR\_TS\_Delay) can be set between 5ms and 100ms.*

### 10.503.1 Detailed Description

Definition at line 14959 of file DCM.idl.

The documentation for this struct was generated from the following file:

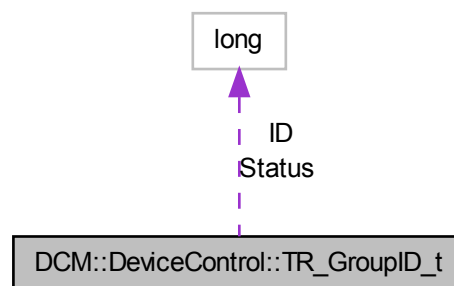
- [DCM.idl](#)

## 10.504 DCM::DeviceControl::TR\_GroupID\_t Struct Reference

Used for referencing transrater staging groups.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_GroupID\_t:



### Public Attributes

- unsigned long [ID](#)

*Group ID in the range [2, 501], group ID 1 may not be used.*

- long [Status](#)

*Status field (for future use).*

## 10.504.1 Detailed Description

Used for referencing transrater staging groups.

Definition at line 14857 of file DCM.idl.

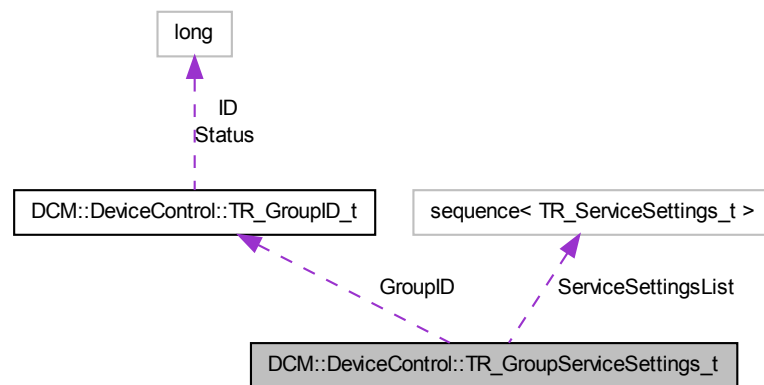
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.505 DCM::DeviceControl::TR\_GroupServiceSettings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_GroupServiceSettings\_t:



## Public Attributes

- [TR\\_GroupID\\_t GroupID](#)
- [TR\\_ServiceSettings\\_List\\_t ServiceSettingsList](#)

## 10.505.1 Detailed Description

Definition at line 15022 of file DCM.idl.

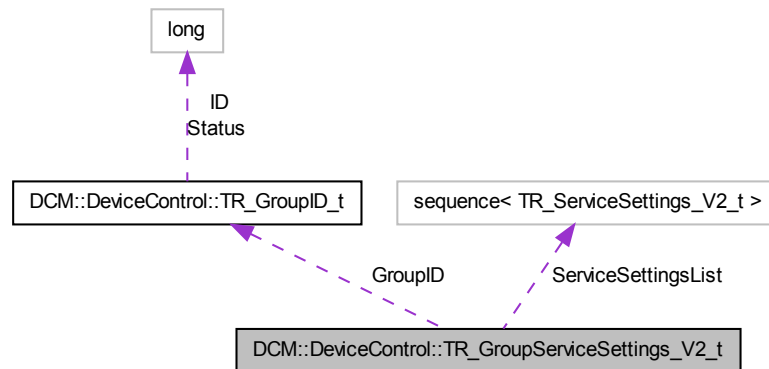
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.506 DCM::DeviceControl::TR\_GroupServiceSettings\_V2\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_GroupServiceSettings\_V2\_t:



#### Public Attributes

- [TR\\_GroupID\\_t GroupID](#)
- [TR\\_ServiceSettings\\_V2\\_List\\_t ServiceSettingsList](#)

#### 10.506.1 Detailed Description

Definition at line 15470 of file DCM.idl.

The documentation for this struct was generated from the following file:

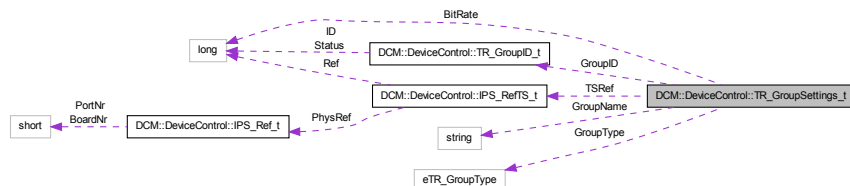
- [DCM.idl](#)

## 10.507 DCM::DeviceControl::TR\_GroupSettings\_t Struct Reference

Used to create and change transrater staging groups.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_GroupSettings\_t:



### Public Attributes

- [TR\\_GroupID\\_t GroupID](#)  
*The group reference, it should be a valid reference. It cannot be changed anymore after creation.*
- string [GroupName](#)  
*The group name, the same name may be used multiple times.*
- [eTR\\_GroupType GroupType](#)  
*The type of group. It cannot be changed anymore after creation.*
- [IPS\\_RefTS\\_t TSRef](#)  
*The output transport stream this group contains (parts of). It should be set to 0xFFFFFFFF in case of a MultiTS group.*
- unsigned long [BitRate](#)  
*The maximum bitrate that should be applied to the statmux group. This should be lower or equal to the output transport stream bandwidth in case of SingleTS\_xxx group types.*

#### 10.507.1 Detailed Description

Used to create and change transrater staging groups.

Definition at line 14976 of file DCM.idl.

The documentation for this struct was generated from the following file:

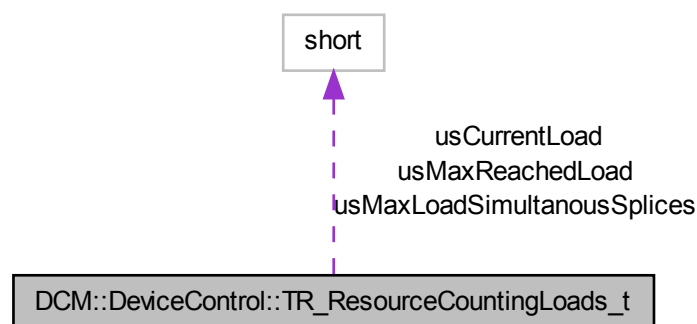
- [DCM.idl](#)

### 10.508 DCM::DeviceControl::TR\_ResourceCountingLoads\_t Struct Reference

Calculated loads on TR board available for user.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_ResourceCountingLoads\_t:



**Public Attributes**

- unsigned short [usCurrentLoad](#)  
*in 0.01%*
- unsigned short [usMaxReachedLoad](#)  
*in 0.01%*
- unsigned short [usMaxLoadSimultaneousSplices](#)  
*in 0.01%*

**10.508.1 Detailed Description**

Calculated loads on TR board available for user.

Definition at line 14736 of file DCM.idl.

The documentation for this struct was generated from the following file:

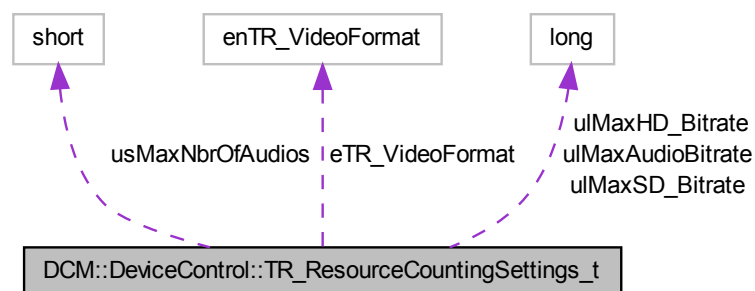
- [DCM.idl](#)

**10.509 DCM::DeviceControl::TR\_ResourceCountingSettings\_t Struct Reference**

Settings needed to calculate different loads on TR board which can be modified by user.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_ResourceCountingSettings\_t:

**Public Attributes**

- [enTR\\_VideoFormat](#) [eTR\\_VideoFormat](#)
- unsigned long [ulMaxSD\\_Bitrate](#)  
*in bps*
- unsigned long [ulMaxHD\\_Bitrate](#)  
*in bps*
- unsigned long [ulMaxAudioBitrate](#)

*in bps*

- unsigned short [usMaxNbrOfAudios](#)

### 10.509.1 Detailed Description

Settings needed to calculate different loads on TR board which can be modified by user.

Definition at line 14726 of file DCM.idl.

The documentation for this struct was generated from the following file:

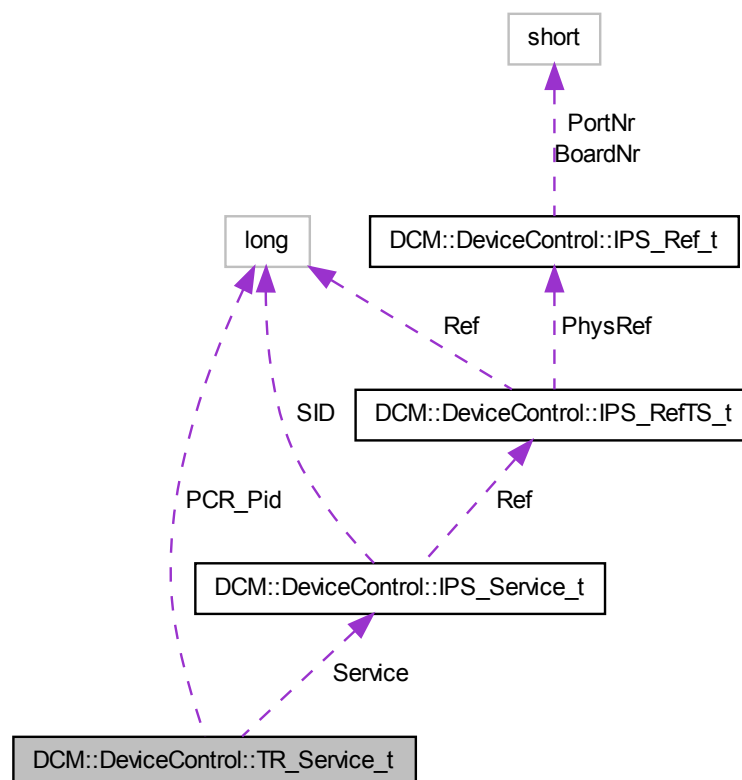
- [DCM.idl](#)

## 10.510 DCM::DeviceControl::TR\_Service\_t Struct Reference

Identifies an output service in a transrater staging context.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_Service\_t:





## Public Attributes

- [IPS\\_Service\\_t Service](#)  
*The output service reference.*
- unsigned long [PCR\\_Pid](#)  
*The PCR PID in the service.*

## 10.510.1 Detailed Description

Identifies an output service in a transrater staging context.

Definition at line 15003 of file DCM.idl.

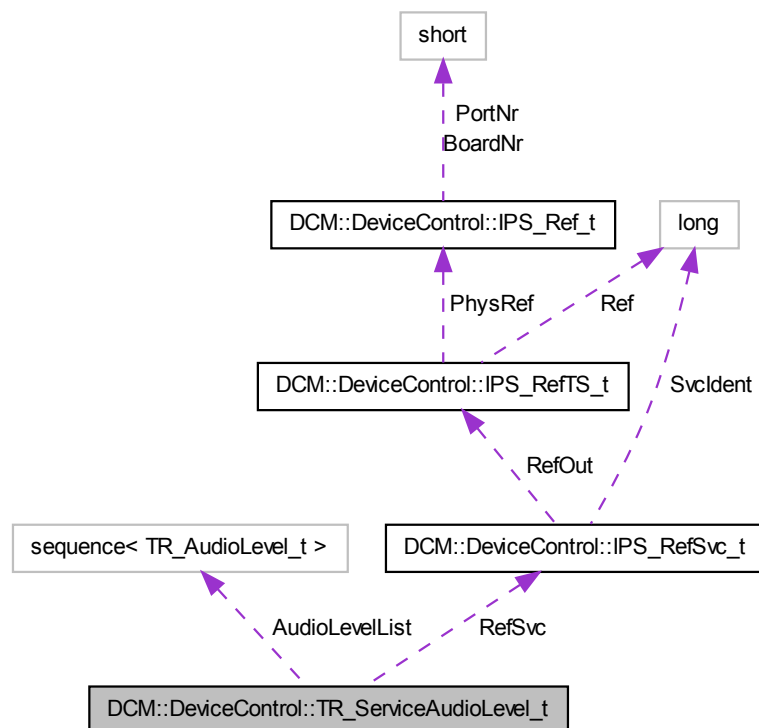
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.511 DCM::DeviceControl::TR\_ServiceAudioLevel\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_ServiceAudioLevel\_t:



**Public Attributes**

- [IPS\\_RefSvc\\_t](#) RefSvc
- [TR\\_AudioLevelList\\_t](#) AudioLevelList

**10.511.1 Detailed Description**

Definition at line 16865 of file DCM.idl.

The documentation for this struct was generated from the following file:

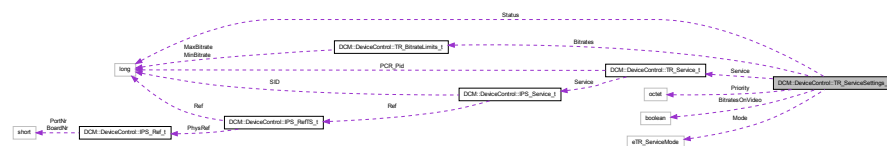
- [DCM.idl](#)

**10.512 DCM::DeviceControl::TR\_ServiceSettings\_t Struct Reference**

Transrater specific service settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_ServiceSettings\_t:

**Public Attributes**

- [TR\\_Service\\_t](#) Service  
*The service reference.*
- [eTR\\_ServiceMode](#) Mode  
*The transrater mode for the service.*
- octet [Priority](#)  
*The transrater priority.*
- [TR\\_BitratesLimits\\_t](#) Bitrates  
*The bitrates that apply to the service. Only relevant if the service mode is not passthrough.*
- boolean [BitratesOnVideo](#)  
*Read only flag that indicates if the bitrate limits apply on the whole service or only on the video part.*
- long [Status](#)  
*Status field. For future use.*

**10.512.1 Detailed Description**

Transrater specific service settings.

Definition at line 15009 of file DCM.idl.

The documentation for this struct was generated from the following file:

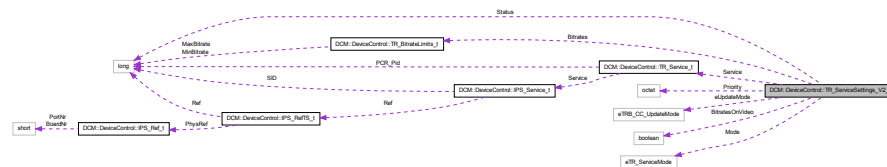
- [DCM.idl](#)

## 10.513 DCM::DeviceControl::TR\_ServiceSettings\_V2\_t Struct Reference

Transrater specific service settings V2.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_ServiceSettings\_V2\_t:



### Public Attributes

- [TR\\_Service\\_t Service](#)  
*The service reference.*
- [eTR\\_ServiceMode Mode](#)  
*The transrater mode for the service.*
- [octet Priority](#)  
*The transrater priority.*
- [TR\\_BitrateLimits\\_t Bitrates](#)  
*The bitrates that apply to the service. Only relevant if the service mode is not passthrough.*
- [boolean BitratesOnVideo](#)  
*Read only flag that indicates if the bitrate limits apply on the whole service or only on the video part.*
- [long Status](#)  
*Status field. For future use.*
- [eTRB\\_CC\\_UpdateMode eUpdateMode](#)  
*Closed caption update mode.*

### 10.513.1 Detailed Description

Transrater specific service settings V2.

#### Version

Release 8.2

Definition at line 15454 of file DCM.idl.

The documentation for this struct was generated from the following file:

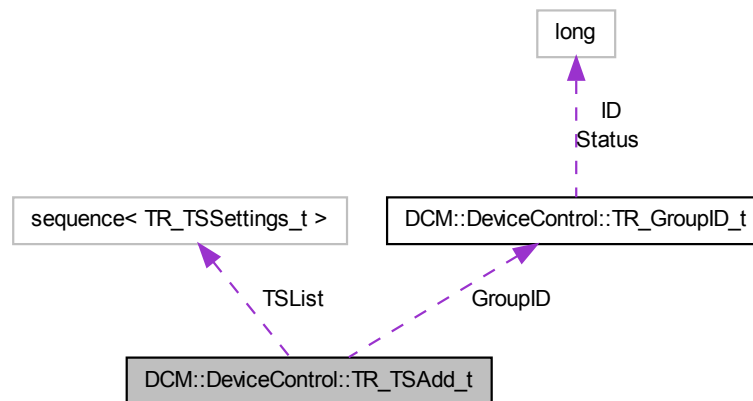
- [DCM.idl](#)

## 10.514 DCM::DeviceControl::TR\_TSAdd\_t Struct Reference

Used to couple output transport stream(s) to a transrater group.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_TSAdd\_t:



### Public Attributes

- [TR\\_GroupID\\_t GroupID](#)  
*The group reference. The group should already exist.*
- [TR\\_TSSettings\\_List\\_t TSList](#)  
*A sequence of output transport streams.*

#### 10.514.1 Detailed Description

Used to couple output transport stream(s) to a transrater group.

Definition at line 14995 of file DCM.idl.

The documentation for this struct was generated from the following file:

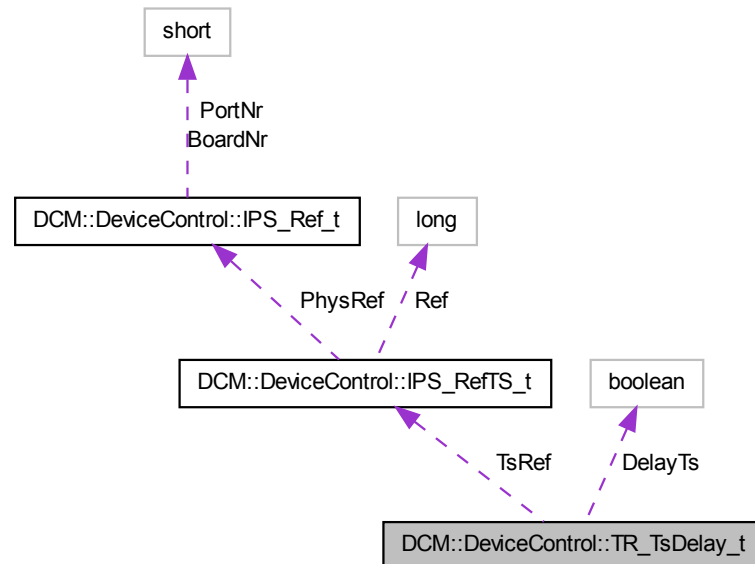
- [DCM.idl](#)

## 10.515 DCM::DeviceControl::TR\_TsDelay\_t Struct Reference

TS Delay settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_TsDelay\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t TsRef](#)  
*The TS.*
- boolean [DelayTs](#)  
*true = delay the TS / false = don't delay TS*

#### 10.515.1 Detailed Description

TS Delay settings.

Definition at line 16910 of file DCM.idl.

The documentation for this struct was generated from the following file:

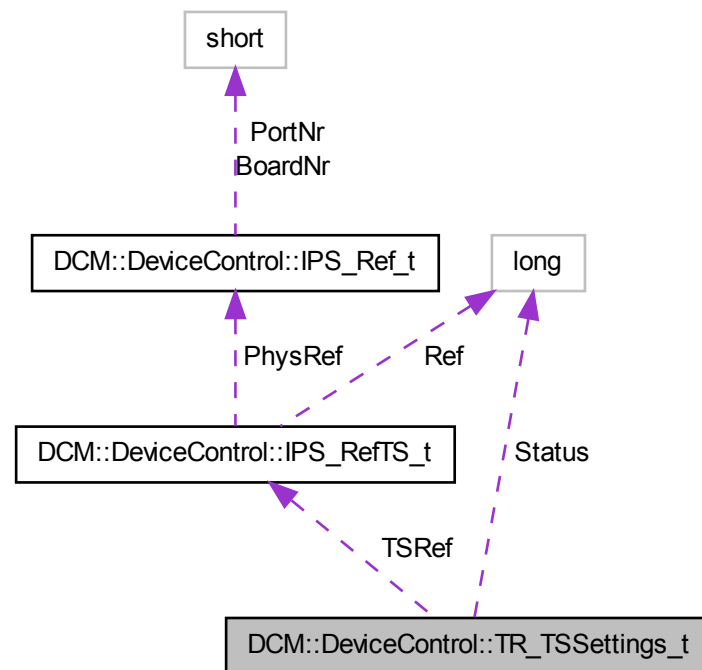
- [DCM.idl](#)

## 10.516 DCM::DeviceControl::TR\_TSSettings\_t Struct Reference

Represents an output transport stream in a transrater staging context.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TR\_TSSettings\_t:



### Public Attributes

- [IPS\\_RefTS\\_t TSRef](#)  
*The output transport stream reference.*
- long [Status](#)  
*Status field (for future use).*

### 10.516.1 Detailed Description

Represents an output transport stream in a transrater staging context.

Definition at line 14987 of file DCM.idl.

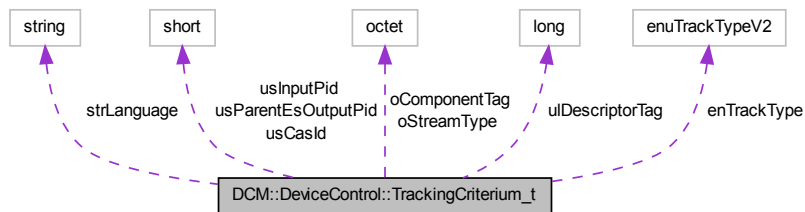
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.517 DCM::DeviceControl::TrackingCriterium\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TrackingCriterium\_t:



### Public Attributes

- [enuTrackTypeV2](#) enTrackType
- [octet](#) oComponentTag
- [octet](#) oStreamType
- [string](#) strLanguage
- [unsigned long](#) ulDescriptorTag
- [unsigned short](#) usInputPid
- [unsigned short](#) usParentEsOutputPid
- [unsigned short](#) usCasId

#### 10.517.1 Detailed Description

Definition at line 5047 of file DCM.idl.

The documentation for this struct was generated from the following file:

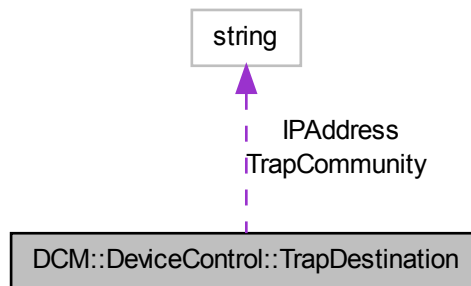
- [DCM.idl](#)

## 10.518 DCM::DeviceControl::TrapDestination Struct Reference

SNMP trap destination settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TrapDestination:



#### Public Attributes

- string [IPAddress](#)
- string [TrapCommunity](#)

*Max 40 char.*

#### 10.518.1 Detailed Description

SNMP trap destination settings.

Definition at line 1112 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

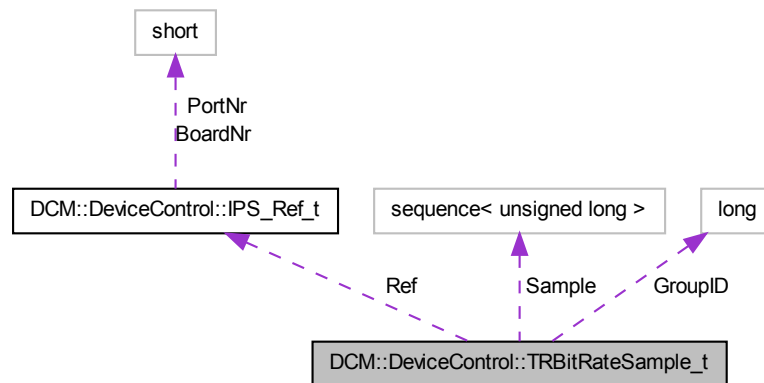
- [DCM.idl](#)

#### 10.519 DCM::DeviceControl::TRBitRateSample\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::TRBitRateSample\_t:



#### Public Attributes

- [IPS\\_Ref\\_t Ref](#)  
*Identifies the unique location (Board, Port).*
- unsigned long [GroupID](#)
- [BitRateSampleList\\_t Sample](#)

#### 10.519.1 Detailed Description

Definition at line 9846 of file DCM.idl.

The documentation for this struct was generated from the following file:

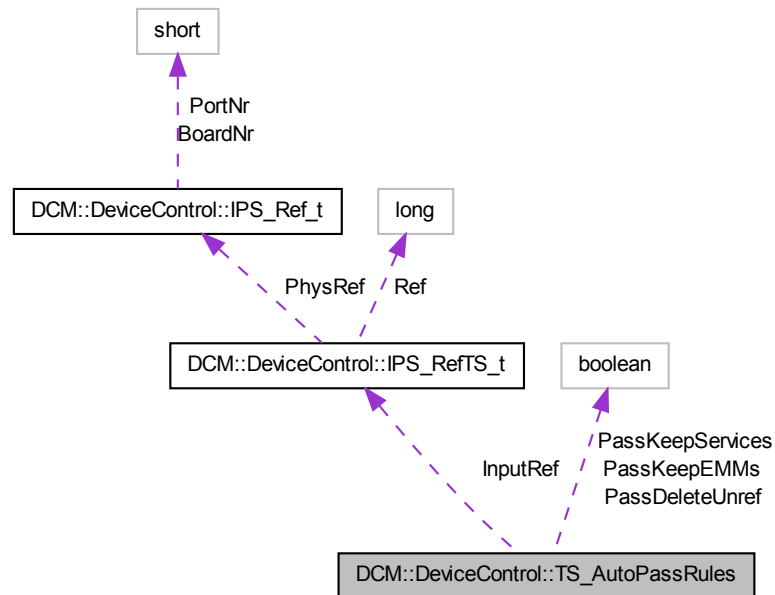
- [DCM.idl](#)

## 10.520 DCM::DeviceControl::TS\_AutoPassRules Struct Reference

MPTS pass through settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TS\_AutoPassRules:



### Public Attributes

- [IPS\\_RefTS\\_t InputRef](#)  
*The input TS to monitor/subscribe to.*
- boolean [PassDeleteUnref](#)  
*read-write; true = unreferenced pids auto passed/deleted; false = no auto pass/delete of unreferenced pids*
- boolean [PassKeepEMMs](#)  
*read-write; true = EMMs auto passed ; false = no auto pass of EMMs*
- boolean [PassKeepServices](#)  
*read-write; true = services auto passed ; false = no auto pass of services*

#### 10.520.1 Detailed Description

MPTS pass through settings.

Definition at line 2853 of file DCM.idl.

The documentation for this struct was generated from the following file:

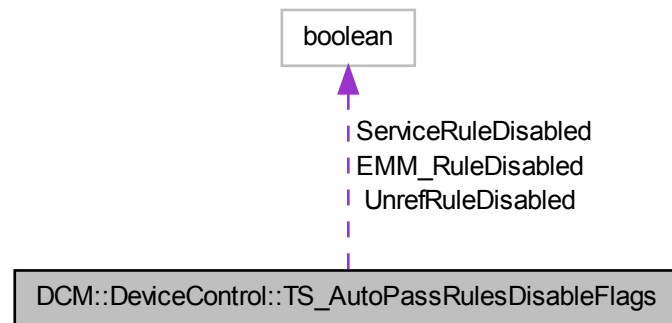
- [DCM.idl](#)

### 10.521 DCM::DeviceControl::TS\_AutoPassRulesDisableFlags Struct Reference

MPTS Passthrough disable flags.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TS\_AutoPassRulesDisableFlags:



### Public Attributes

- boolean [UnrefRuleDisabled](#)  
*read-only; true = the unref PID rule is disabled by system; false = the unref PID rule can be configured by the user;*
- boolean [EMM\\_RuleDisabled](#)  
*read-only; true = the EMM rule is disabled by system; false = the EMM rule can be configured by the user;*
- boolean [ServiceRuleDisabled](#)  
*read-only; true = the service rule is disabled by system; false the service rule can be configured by the user;*

### 10.521.1 Detailed Description

MPTS Passthrough disable flags.

Definition at line 2867 of file DCM.idl.

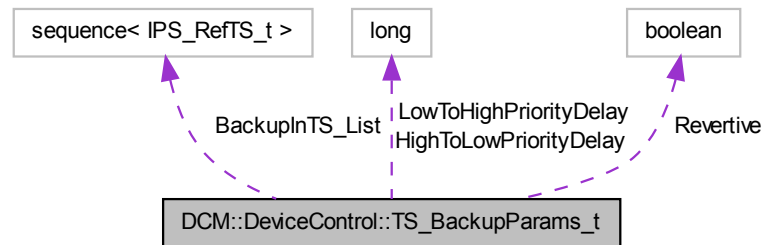
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.522 DCM::DeviceControl::TS\_BackupParams\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TS\_BackupParams\_t:



#### Public Attributes

- [IPS\\_RefTS\\_List\\_t BackupInTS\\_List](#)
- boolean [Revertive](#)
- unsigned long [HighToLowPriorityDelay](#)  
*time in seconds to wait before switching to backup*
- unsigned long [LowToHighPriorityDelay](#)  
*time in seconds to wait before switching back to main input*

#### 10.522.1 Detailed Description

Definition at line 21740 of file DCM.idl.

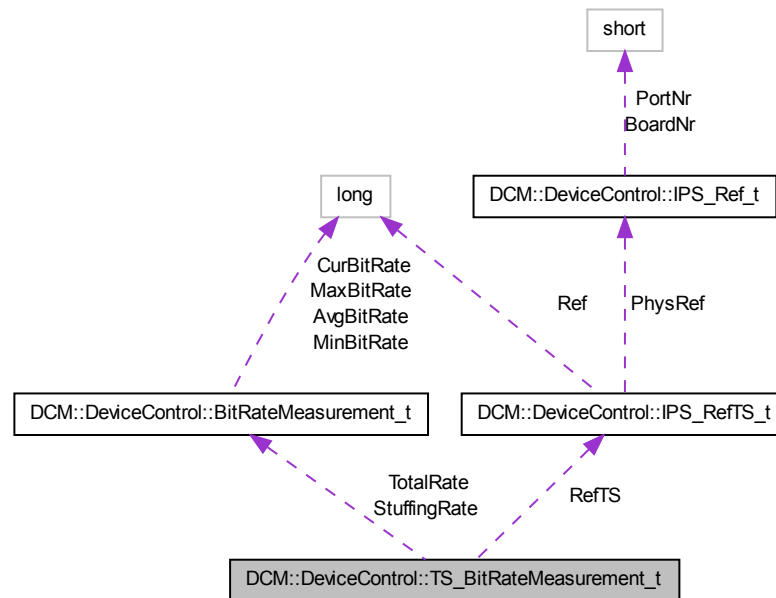
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.523 DCM::DeviceControl::TS\_BitRateMeasurement\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TS\_BitRateMeasurement\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTS](#)
- [BitRateMeasurement\\_t TotalRate](#)
- [BitRateMeasurement\\_t StuffingRate](#)

### 10.523.1 Detailed Description

Definition at line 9787 of file DCM.idl.

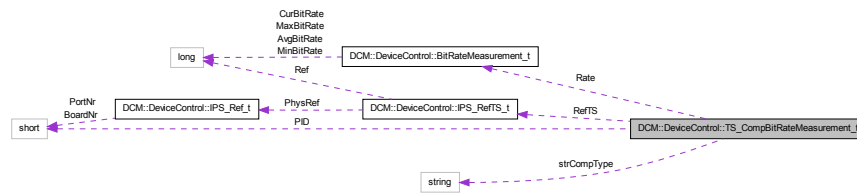
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.524 DCM::DeviceControl::TS\_CompBitRateMeasurement\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TS\_CompBitRateMeasurement\_t:



### Public Attributes

- [IPS\\_RefTS\\_t RefTS](#)
- unsigned short [PID](#)
- string [strCompType](#)  
*PAT, SDT.*
- [BitRateMeasurement\\_t Rate](#)

#### 10.524.1 Detailed Description

Definition at line 9806 of file DCM.idl.

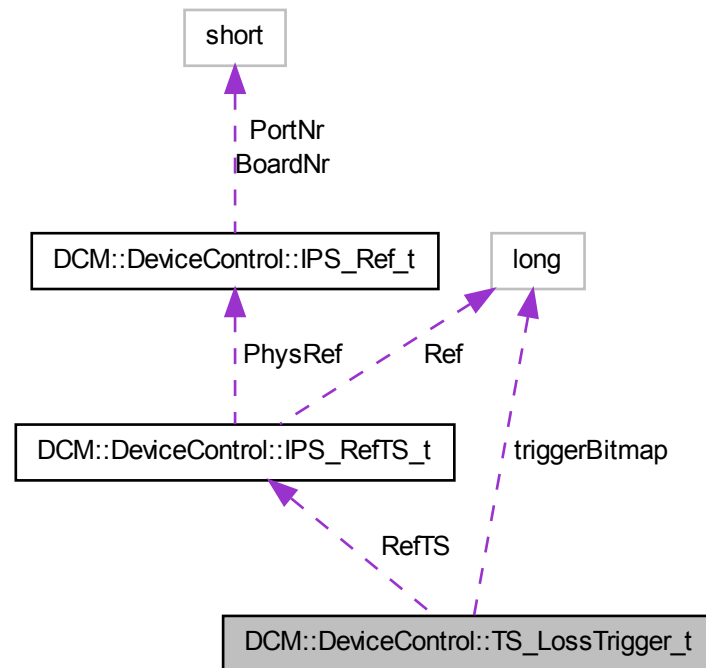
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

### 10.525 DCM::DeviceControl::TS\_LossTrigger\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TS\_LossTrigger\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTS](#)
- [TriggerBitmap\\_t triggerBitmap](#)

#### 10.525.1 Detailed Description

Definition at line 20910 of file DCM.idl.

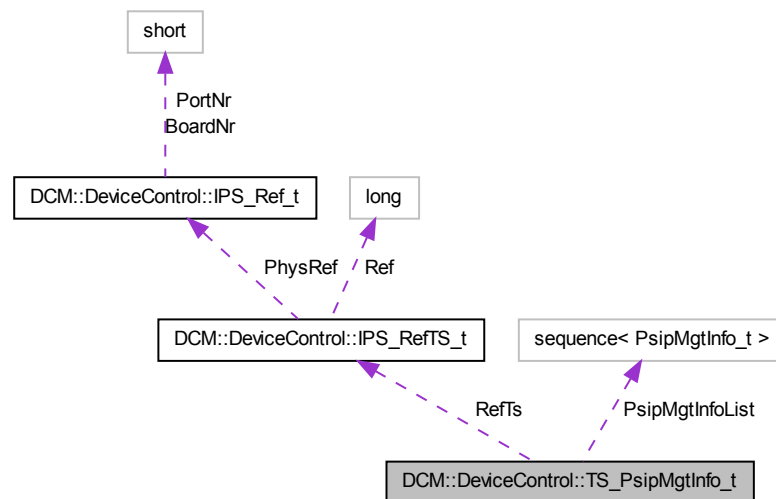
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.526 DCM::DeviceControl::TS\_PsipMgtInfo\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TS\_PsipMgtInfo\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- [PsipMgtInfoList\\_t PsipMgtInfoList](#)

#### 10.526.1 Detailed Description

Definition at line 9704 of file DCM.idl.

The documentation for this struct was generated from the following file:

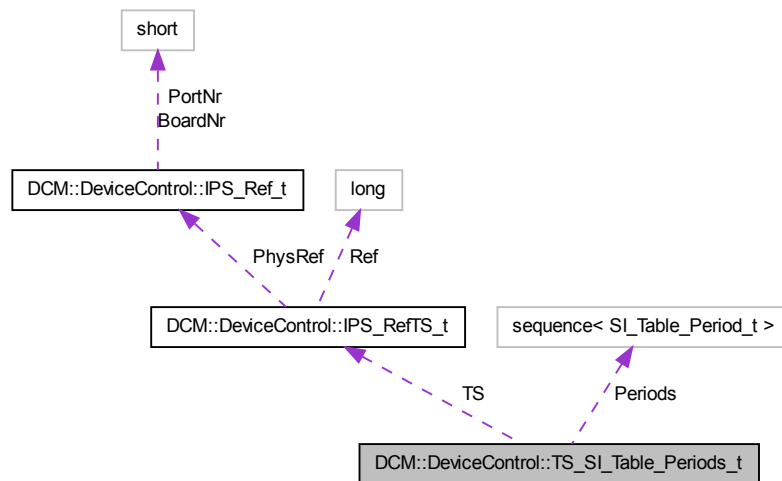
- [DCM.idl](#)

#### 10.527 DCM::DeviceControl::TS\_SI\_Table\_Periods\_t Struct Reference

```
import "DCM.idl";
```



Collaboration diagram for DCM::DeviceControl::TS\_SI\_Table\_Periods\_t:



### Public Attributes

- [IPS\\_RefTS\\_t TS](#)
- [SI\\_Table\\_Period\\_List\\_t Periods](#)

#### 10.527.1 Detailed Description

Definition at line 2743 of file DCM.idl.

The documentation for this struct was generated from the following file:

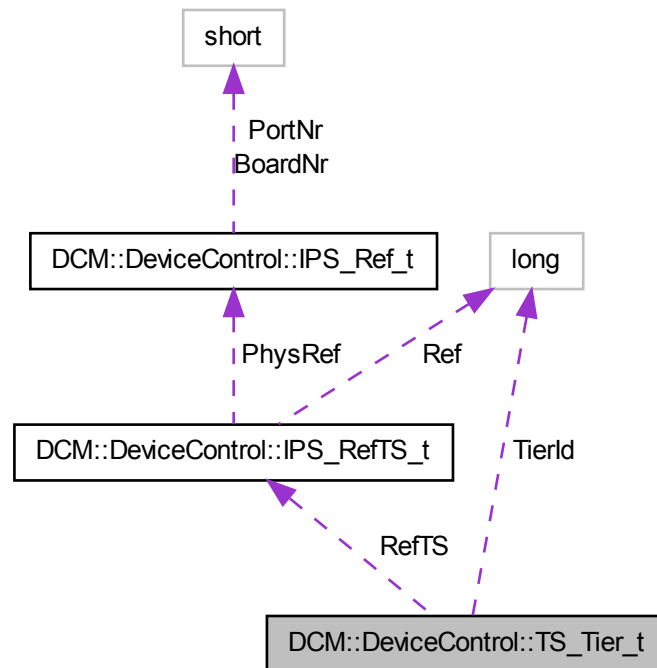
- [DCM.idl](#)

## 10.528 DCM::DeviceControl::TS\_Tier\_t Struct Reference

Tier based settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TS\_Tier\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTS](#)
- unsigned long [TierId](#)

#### 10.528.1 Detailed Description

Tier based settings.

Definition at line 27654 of file DCM.idl.

The documentation for this struct was generated from the following file:

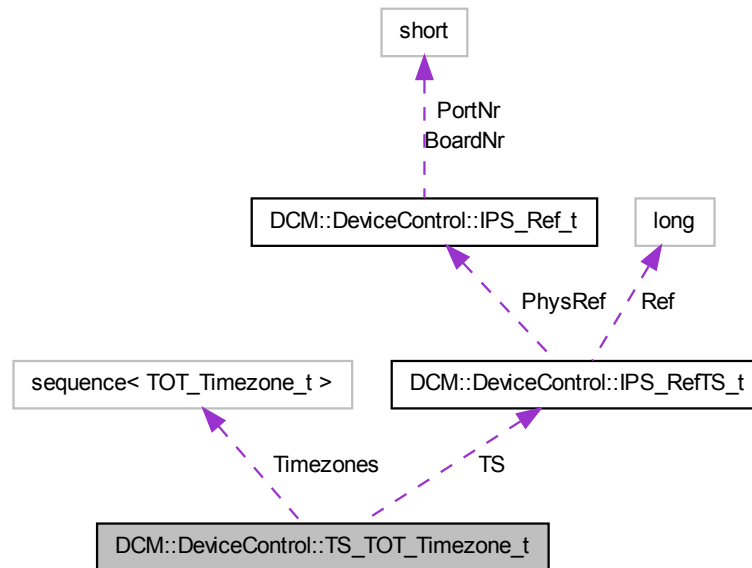
- [DCM.idl](#)

#### 10.529 DCM::DeviceControl::TS\_TOT\_Timezone\_t Struct Reference

Structure that represents required data to construct all TOT descriptors on a specific TS.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TS\_TOT\_Timezone\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t TS](#)
- [TOT\\_Timezone\\_List\\_t Timezones](#)

#### 10.529.1 Detailed Description

Structure that represents required data to construct all TOT descriptors on a specific TS.

Definition at line 2771 of file DCM.idl.

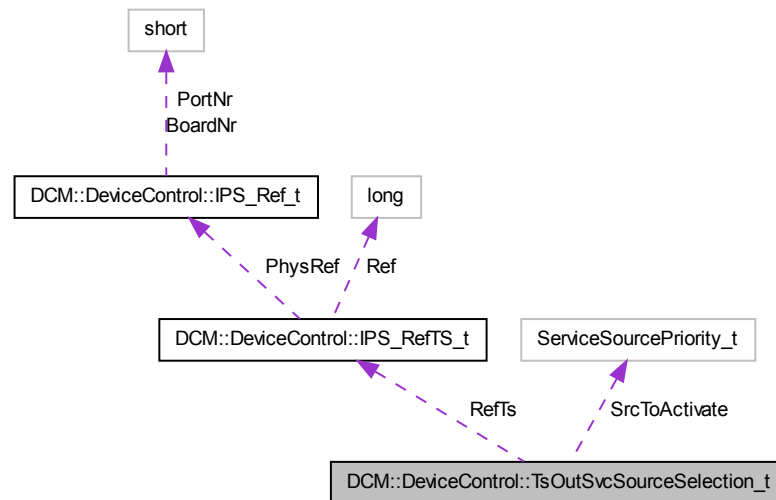
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.530 DCM::DeviceControl::TsOutSvcSourceSelection\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TsOutSvcSourceSelection\_t:



#### Public Attributes

- [IPS\\_RefTS\\_t RefTs](#)
- [ServiceSourcePriority\\_t SrcToActivate](#)

#### 10.530.1 Detailed Description

Definition at line 23295 of file DCM.idl.

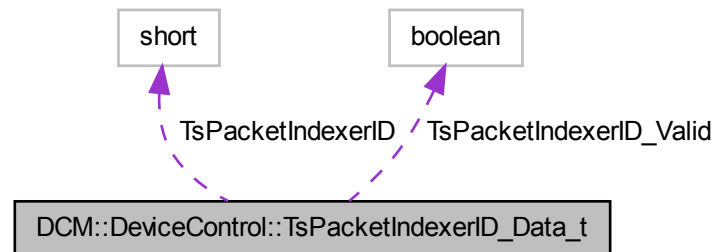
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.531 DCM::DeviceControl::TsPacketIndexerID\_Data\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::TsPacketIndexerID\_Data\_t:



#### Public Attributes

- boolean [TsPacketIndexerID\\_Valid](#)
- unsigned short [TsPacketIndexerID](#)

#### 10.531.1 Detailed Description

Definition at line 29391 of file DCM.idl.

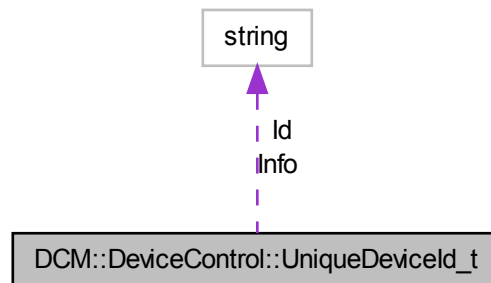
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

#### 10.532 DCM::DeviceControl::UniqueDeviceId\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::UniqueDeviceId\_t:



#### Public Attributes

- `string` [Id](#)  
*The ID of the info field.*
- `string` [Info](#)  
*Unique device identifier info field.*

#### 10.532.1 Detailed Description

Definition at line 1293 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

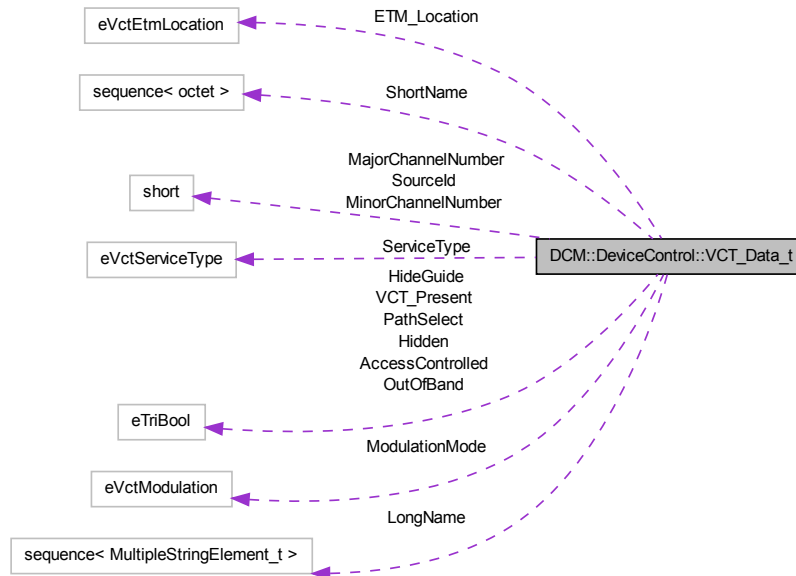
- [DCM.idl](#)

### 10.533 DCM::DeviceControl::VCT\_Data\_t Struct Reference

Structure that contains settings about the Virtual Channel Table of a service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::VCT\_Data\_t:



## Public Attributes

- [eTriBool VCT\\_Present](#)  
Follow Input, Generate (Present), Block (Not Present) < status: true = VCT fragment is present at input (either CVCT or TVCT)
- [DvbString\\_t ShortName](#)  
setting: actually the service user name < status: the short name as taken from input
- [MultipleString\\_t LongName](#)  
more describing channel name optionally passed as descriptor. Empty string
- unsigned short [MajorChannelNumber](#)  
first part of channel number (10 bits)
- unsigned short [MinorChannelNumber](#)  
second part of channel number (10 bits)
- [eVctModulation ModulationMode](#)  
see eVctModulation, defaults: if modulation is not according to table
- [eVctEtmLocation ETM\\_Location](#)  
see VCT\_ETMLOCATION\_xxx
- [eTriBool AccessControlled](#)  
true: channel is scrambled
- [eTriBool Hidden](#)  
true: channel is inactive, should not be listed
- [eTriBool PathSelect](#)  
(CVCT only) false: path 1, true: path 2
- [eTriBool OutOfBand](#)

(CVCT only) true: out of band physical transmission

- [eTriBool HideGuide](#)

(only valid when hidden flag is true) true: program may not be listed in program guide

- [eVctServiceType ServiceType](#)

see VCT\_SERVICETYPE\_xxx

- unsigned short [SourceId](#)

internal reference, used for ETT-V and EIT's

### 10.533.1 Detailed Description

Structure that contains settings about the Virtual Channel Table of a service.

Definition at line 9048 of file DCM.idl.

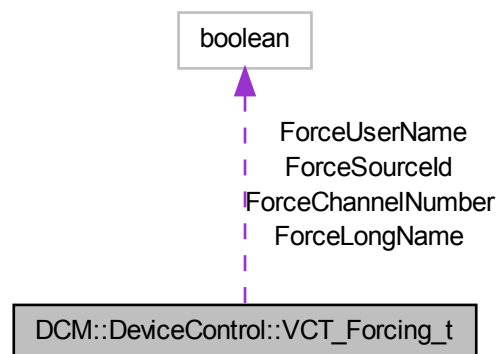
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.534 DCM::DeviceControl::VCT\_Forcing\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::VCT\_Forcing\_t:



### Public Attributes

- boolean [ForceUserName](#)

true = use service user name as short name, false = use input short name

- boolean [ForceLongName](#)

true = use filled in long name, false = use input long name

- boolean [ForceChannelNumber](#)



*true = use filled in channel number, false = use input channel number*

- boolean **ForceSourceId**

*true = use filled in source id, false = use input source id*

### 10.534.1 Detailed Description

Definition at line 9097 of file DCM.idl.

The documentation for this struct was generated from the following file:

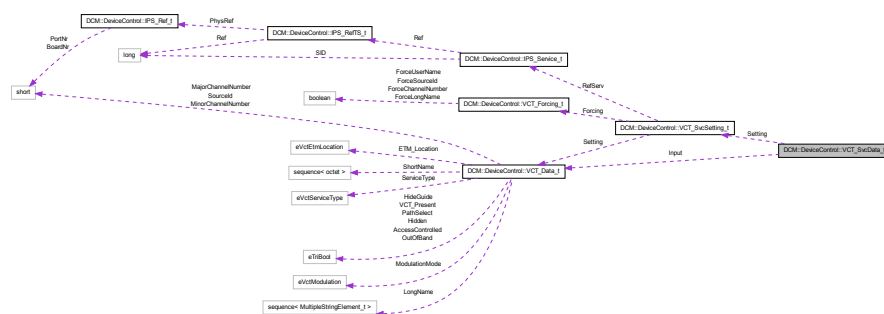
- DCM.idl

### 10.535 DCM::DeviceControl::VCT\_SvcData\_t Struct Reference

Structure that contains status about the Virtual Channel Table of a service.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::VCT\_SvcData\_t:



## Public Attributes

- VCT\_SvcSetting\_t Setting
- VCT\_Data\_t Input

### 10.535.1 Detailed Description

Structure that contains status about the Virtual Channel Table of a service.

Introduced to bundle the settings and status when getting VCT information.

Definition at line 9120 of file DCM.idl.

The documentation for this struct was generated from the following file:

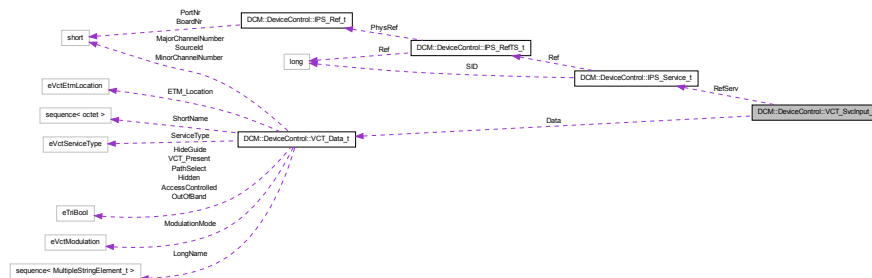
- DCM.idl

## 10.536 DCM::DeviceControl::VCT\_SvcInput\_t Struct Reference

Structure that contains status about the Virtual Channel Table of a service on input.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::VCT\_SvcInput\_t:



## Public Attributes

- [IPS\\_Service\\_t RefServ](#)
- [VCT\\_Data\\_t Data](#)

### 10.536.1 Detailed Description

Structure that contains status about the Virtual Channel Table of a service on input.

Definition at line 9069 of file DCM.idl.

The documentation for this struct was generated from the following file:

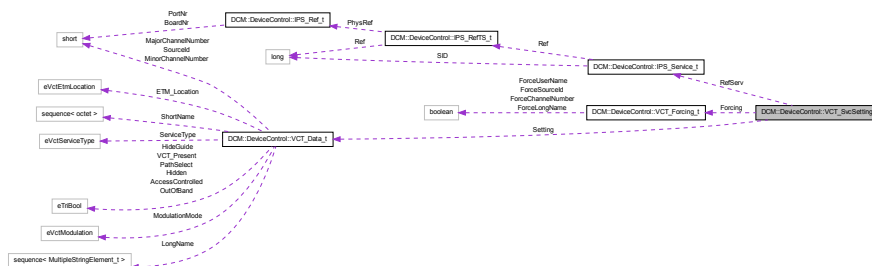
- [DCM.idl](#)

## 10.537 DCM::DeviceControl::VCT\_SvcSetting\_t Struct Reference

Structure combining service-id with settings.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::VCT\_SvcSetting\_t:



## Public Attributes

- [IPS\\_Service\\_t RefServ](#)

- [VCT\\_Data\\_t Setting](#)
- [VCT\\_Forcing\\_t Forcing](#)

#### 10.537.1 Detailed Description

Structure combining service-id with settings.

Definition at line 9107 of file DCM.idl.

The documentation for this struct was generated from the following file:

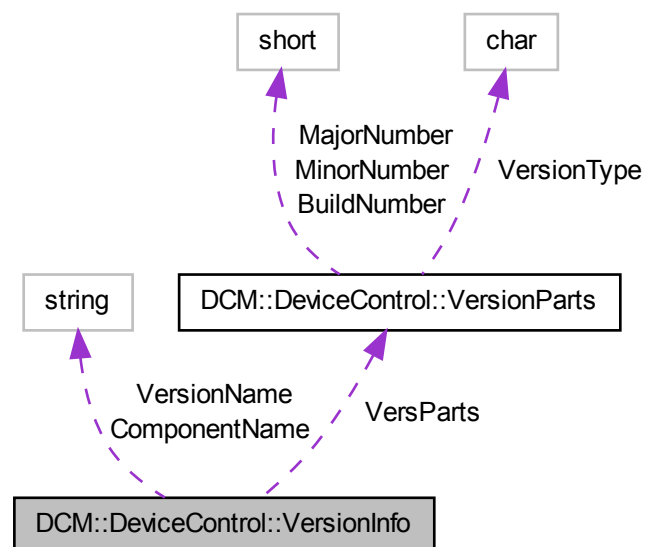
- [DCM.idl](#)

### 10.538 DCM::DeviceControl::VersionInfo Struct Reference

Version info.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::VersionInfo:



#### Public Attributes

- string [ComponentName](#)  
*MAX string length = 20.*
- string [VersionName](#)  
*MAX string length = 20.*
- [VersionParts](#) [VersParts](#)

### 10.538.1 Detailed Description

Version info.

Definition at line 1270 of file DCM.idl.

The documentation for this struct was generated from the following file:

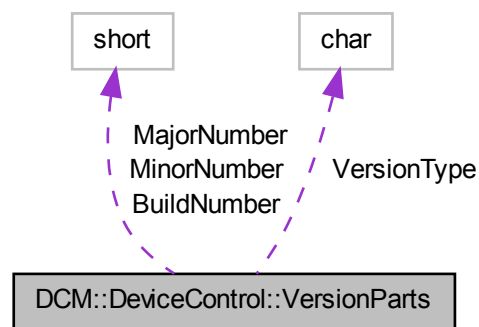
- [DCM.idl](#)

### 10.539 DCM::DeviceControl::VersionParts Struct Reference

Version number information.

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::VersionParts:



### Public Attributes

- char [VersionType](#)  
*'A' for a, 'B' for b, D for demo and V for release*
- short [MajorNumber](#)
- short [MinorNumber](#)
- short [BuildNumber](#)

### 10.539.1 Detailed Description

Version number information.

Definition at line 1261 of file DCM.idl.

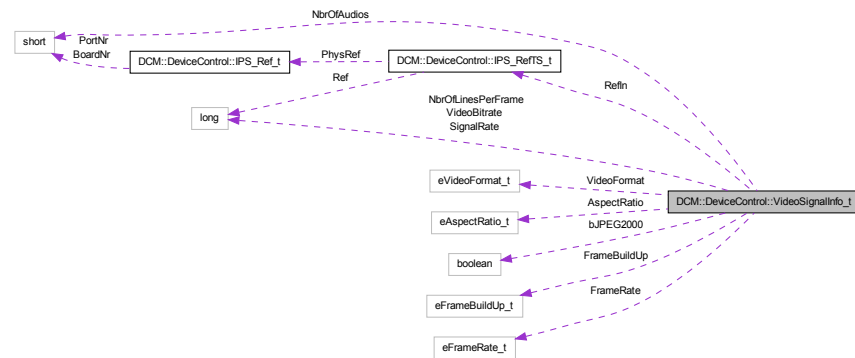
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.540 DCM::DeviceControl::VideoSignalInfo\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::VideoSignalInfo\_t:



## Public Attributes

- [IPS\\_RefTS\\_t RefIn](#)
- [eFrameRate\\_t FrameRate](#)
- unsigned long [SignalRate](#)
- unsigned long [VideoBitrate](#)
- unsigned short [NbrOfAudios](#)
- boolean [bJPEG2000](#)
- [eVideoFormat\\_t VideoFormat](#)
- [eAspectRatio\\_t AspectRatio](#)
- unsigned long [NbrOfLinesPerFrame](#)
- [eFrameBuildUp\\_t FrameBuildUp](#)

## 10.540.1 Detailed Description

Definition at line 30197 of file DCM.idl.

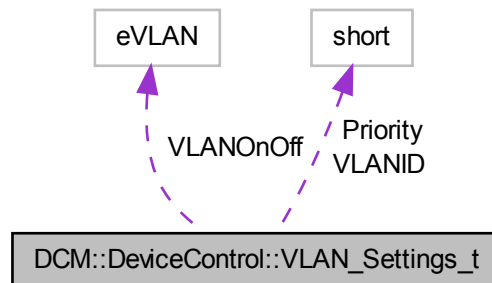
The documentation for this struct was generated from the following file:

- [DCM.idl](#)

## 10.541 DCM::DeviceControl::VLAN\_Settings\_t Struct Reference

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::VLAN\_Settings\_t:



#### Public Attributes

- [eVLAN VLANOnOff](#)
- unsigned short [VLANID](#)  
*range: 0-4094 12 bit, 0xFFFF not allowed, 0=no vlan id, only priority (ieee 802.1Q))*
- unsigned short [Priority](#)  
*range: 0-7 0=default 1=low 7=high (ieee 802.1D)*

#### 10.541.1 Detailed Description

Definition at line 18000 of file `DCM.idl`.

The documentation for this struct was generated from the following file:

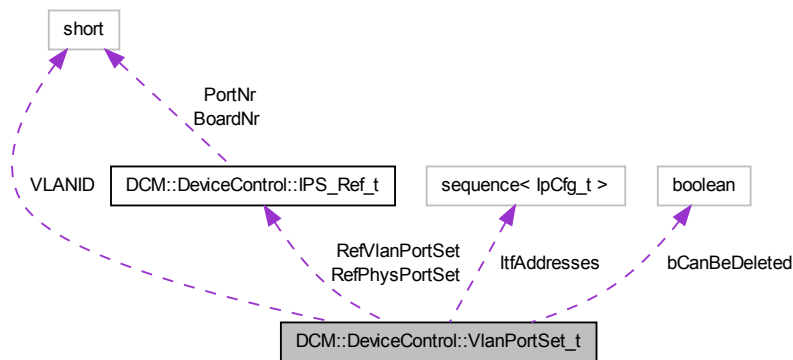
- [DCM.idl](#)

## 10.542 DCM::DeviceControl::VlanPortSet\_t Struct Reference

structure to Create/Get information on Vlan PortSets

```
import "DCM.idl";
```

Collaboration diagram for DCM::DeviceControl::VlanPortSet\_t:



### Public Attributes

- [IPS\\_Ref\\_t RefPhysPortSet](#)  
*Underlying Physical (GbE) Port Set.*
- [IPS\\_Ref\\_t RefVlanPortSet](#)  
*Handle to identify a VlanPortSet.*
- unsigned short [VLANID](#)  
*valid range: 1-4094*
- [IpCfgList\\_t ItfAddresses](#)  
*Configured addresses of the vlan interfaces.*
- boolean [bCanBeDeleted](#)  
*true if the configured VLAN can be deleted.*

### 10.542.1 Detailed Description

structure to Create/Get information on Vlan PortSets

Definition at line 6674 of file DCM.idl.

The documentation for this struct was generated from the following file:

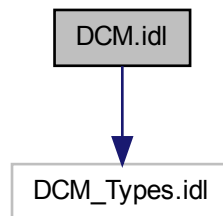
- [DCM.idl](#)

## 11 File Documentation

### 11.1 DCM.idl File Reference

This file holds the general interface definition of the DCM module.

#include "DCM\_Types.idl" Include dependency graph for DCM.idl:



## Classes

- interface [DCM::DeviceControl](#)  
*The only interface of DCM to the outside world.*
- struct [DCM::DeviceControl::IPS\\_Ref\\_t](#)  
*General location of a physical or virtual port.*
- struct [DCM::DeviceControl::IPS\\_RefTS\\_t](#)  
*General location of a TS.*
- struct [DCM::DeviceControl::MM\\_ID\\_t](#)  
*Alarm reference (M&M, 1:1 device backup).*
- struct [DCM::DeviceControl::Time](#)  
*Structure to supply date and time information.*
- struct [DCM::DeviceControl::NTP\\_Stats\\_t](#)
- struct [DCM::DeviceControl::NTP\\_Info\\_t](#)
- struct [DCM::DeviceControl::Table\\_Sync\\_Info\\_t](#)  
*Structure defining the parameters for time sync via SI table acquisition.*
- struct [DCM::DeviceControl::NotifData\\_t](#)
- struct [DCM::DeviceControl::TrapDestination](#)  
*SNMP trap destination settings.*
- struct [DCM::DeviceControl::SNMPCommunity](#)  
*SNMP read or write community settings.*
- struct [DCM::DeviceControl::VersionParts](#)  
*Version number information.*
- struct [DCM::DeviceControl::VersionInfo](#)  
*Version info.*
- struct [DCM::DeviceControl::BoardIdentification](#)  
*Information data as returned by `GetSystemId()`.*
- struct [DCM::DeviceControl::UniqueDeviceId\\_t](#)
- struct [DCM::DeviceControl::ModuleExceptionTrace\\_t](#)  
*Structure to get or set Debug Trace Level information.*
- struct [DCM::DeviceControl::BoardInfo\\_t](#)



- Structure to return board configuration.*

  - struct [DCM::DeviceControl::BoardInfo\\_V2\\_t](#)
- Structure to return board configuration.*

  - struct [DCM::DeviceControl::BoardCfg\\_t](#)
- Structure to get or set port information.*

  - struct [DCM::DeviceControl::BoardCfg\\_V2\\_t](#)
- Structure to get or set port information.*

  - struct [DCM::DeviceControl::ComponentTemperature\\_t](#)
  - struct [DCM::DeviceControl::BoardTemperature\\_t](#)
  - struct [DCM::DeviceControl::IP\\_Subnet\\_t](#)
  - struct [DCM::DeviceControl::NicTeam\\_Settings](#)
- Structure to get or set NIC team configuration.*

  - struct [DCM::DeviceControl::NicTeam\\_MemberStatus\\_t](#)
- Structure describing the status of a NIC team member.*

  - struct [DCM::DeviceControl::NicTeamStatus](#)
- Structure to get NIC team status.*

  - struct [DCM::DeviceControl::IPS\\_UDP\\_Socket\\_t](#)
- The socket describes the IP address & UDP port on which a TS is played out.*

  - struct [DCM::DeviceControl::IPS\\_InputTS\\_t](#)
- Information of an incoming TS.*

  - struct [DCM::DeviceControl::IPS\\_Gbe\\_InputTS\\_t](#)
- Gbe information of an incoming TS.*

  - struct [DCM::DeviceControl::Debug\\_Gbe\\_InputTS\\_t](#)
  - struct [DCM::DeviceControl::IPS\\_ChangeInputTS\\_t](#)
- Information to change an incoming TS.*

  - struct [DCM::DeviceControl::Debug\\_Gbe\\_OutputTS\\_t](#)
- Information-Settings of an outgoing TS.*

  - struct [DCM::DeviceControl::IPS\\_OutputTS\\_t](#)
  - struct [DCM::DeviceControl::IPS\\_OutputTS\\_V2\\_t](#)
- Information-Settings of an outgoing TS.*

  - struct [DCM::DeviceControl::IPS\\_LookupTS\\_t](#)
- Structure to find a specific TS by IP-address and UDP port.*

  - struct [DCM::DeviceControl::IPS\\_ReferenceTS\\_t](#)
- Structure to find a specific TS by IP-address and UDP port.*

  - struct [DCM::DeviceControl::IPS\\_OutPID\\_Data\\_t](#)
- Used for PID passing by [IPS\\_OutPID\\_AddL\(\)](#), [IPS\\_OutPID\\_GetL\(\)](#) and [IPS\\_OutPID\\_DeleteL\(\)](#)*

  - struct [DCM::DeviceControl::IPS\\_OutPID\\_Data2\\_t](#)
  - struct [DCM::DeviceControl::IPS\\_InPID\\_Data\\_t](#)
  - struct [DCM::DeviceControl::IPS\\_InPID\\_Data\\_V2\\_t](#)
  - struct [DCM::DeviceControl::InEMM\\_Ref\\_t](#)
- Identification of which PID to be created/deleted. Note this is duplicated by [RefPid\\_t](#) but must remain for backwards compatability.*

  - struct [DCM::DeviceControl::EMM\\_Data\\_t](#)
- Identification of EMMG EMMs.*

  - struct [DCM::DeviceControl::Ref\\_SI\\_table\\_ext\\_t](#)
  - struct [DCM::DeviceControl::SI\\_Table\\_Period\\_t](#)
  - struct [DCM::DeviceControl::SI\\_Table\\_GenerationMode\\_t](#)

*Generation mode for SI tables.*

- struct [DCM::DeviceControl::TS\\_SI\\_Table\\_Periods\\_t](#)
- struct [DCM::DeviceControl::TableKeys\\_t](#)
- struct [DCM::DeviceControl::TOT\\_Timezone\\_t](#)

*Structure that represents required data to construct TOT descriptor.*

- struct [DCM::DeviceControl::TS\\_TOT\\_Timezone\\_t](#)

*Structure that represents required data to construct all TOT descriptors on a specific TS.*

- struct [DCM::DeviceControl::RoutingStatusRecord\\_t](#)

*Structure that contains information about one error that occurred during routing file upload (pre-config - IPS\_ProcessRoutingFile)*

- struct [DCM::DeviceControl::IPS\\_RefPid\\_t](#)

*Note RefPid\_t is effectively a copy of InEMM\_Ref\_t but that must remain for compatability.*

- struct [DCM::DeviceControl::CompPidES\\_t](#)

*Identification of muxed pids.*

- struct [DCM::DeviceControl::CompPidES\\_V2\\_t](#)
- struct [DCM::DeviceControl::TS\\_AutoPassRules](#)

*MPTS pass through settings.*

- struct [DCM::DeviceControl::TS\\_AutoPassRulesDisableFlags](#)

*MPTS Passthrough disable flags.*

- struct [DCM::DeviceControl::DefaultAutoPassRules](#)

*Default Service component behaviour.*

- struct [DCM::DeviceControl::Service\\_AutoPassRules](#)

*Service component behaviour.*

- struct [DCM::DeviceControl::SI\\_AutoPassRules\\_t](#)
- struct [DCM::DeviceControl::OutTS\\_InsertCATDescriptors\\_t](#)
- struct [DCM::DeviceControl::TimeBaseSelectionMode\\_t](#)
- struct [DCM::DeviceControl::InTS\\_TimeBaseSelectionMode\\_t](#)
- struct [DCM::DeviceControl::BoardDejitterCfg\\_t](#)
- struct [DCM::DeviceControl::TimeBaseSelectionMode\\_V2\\_t](#)
- struct [DCM::DeviceControl::InTS\\_TimeBaseSelectionMode\\_V2\\_t](#)
- struct [DCM::DeviceControl::InTsExistenceReasons\\_t](#)

*Input Transport stream reason for existence bitmap.*

- struct [DCM::DeviceControl::GbeIO\\_IP\\_Settings\\_t](#)
- struct [DCM::DeviceControl::ForbiddenPidRange\\_t](#)
- struct [DCM::DeviceControl::OutTS\\_NitInPat\\_t](#)

*NIT in PAT setting for specific TS.*

- struct [DCM::DeviceControl::PriorityBitMode\\_t](#)

*Compact CA descriptor setting (per input TS)*

- struct [DCM::DeviceControl::InTS\\_PriorityBit\\_t](#)

*Information to change the priority bit of the MPEG packets of an incoming TS.*

- struct [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_t](#)
- struct [DCM::DeviceControl::IPS\\_OutputTS\\_LT\\_V2\\_t](#)
- struct [DCM::DeviceControl::PortTsSvcProps\\_t](#)
- struct [DCM::DeviceControl::IPS\\_Service\\_t](#)

*SID reference.*

- struct [DCM::DeviceControl::IPS\\_Service\\_In\\_t](#)

*Incoming service information.*

- struct [DCM::DeviceControl::IPS\\_SDT\\_Data\\_t](#)

*Structure that contains data about the Service Description Table of a service.*

- struct [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_t](#)
- struct [DCM::DeviceControl::IPS\\_RefSvc\\_t](#)

*A reference to a service.*

- struct [DCM::DeviceControl::IPS\\_Service\\_In\\_V2\\_t](#)

*A definition of an input service as used on the output.*

- struct [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V2\\_t](#)

*Extended information about an output service.*

- struct [DCM::DeviceControl::IPS\\_ServiceData\\_Out\\_V3\\_t](#)

*Extended information about an output service.*

- struct [DCM::DeviceControl::ServiceBlockCAInfo\\_t](#)

*Outgoing service information.*

- struct [DCM::DeviceControl::TC\\_ServiceData\\_t](#)

*Structure with service data for a transcoder board.*

- struct [DCM::DeviceControl::TrackingCriterium\\_t](#)
- struct [DCM::DeviceControl::MergeCriterium\\_t](#)
- struct [DCM::DeviceControl::ComponentMergeCriterium\\_t](#)
- struct [DCM::DeviceControl::IPS\\_MergedInService\\_t](#)
- struct [DCM::DeviceControl::AltSrcMergedSetting\\_t](#)
- struct [DCM::DeviceControl::IPS\\_Serv\\_Dest\\_t](#)
- struct [DCM::DeviceControl::TC\\_ServiceDataV2\\_t](#)

*Structure with service data for a transcoder board.*

- struct [DCM::DeviceControl::InPID\\_Data\\_t](#)

*Identification of which PID to be (un)blocked.*

- struct [DCM::DeviceControl::ServicePIDStatus\\_t](#)

*Identification of the service(s) to (un)block PIDs in.*

- struct [DCM::DeviceControl::ServiceCompSettings\\_t](#)
- struct [DCM::DeviceControl::ComponentTag\\_t](#)
- struct [DCM::DeviceControl::ComponentTrackRule\\_t](#)
- struct [DCM::DeviceControl::ComponentTrackRule\\_V2\\_t](#)
- struct [DCM::DeviceControl::DefaultTrackRule\\_t](#)

*Structure for board default component tracking rules.*

- struct [DCM::DeviceControl::ES\\_TypeSetting\\_t](#)
- struct [DCM::DeviceControl::SvcOutES\\_TypeSetting\\_t](#)
- struct [DCM::DeviceControl::ServiceES\\_t](#)
- struct [DCM::DeviceControl::IPS\\_LanguageSettings\\_t](#)
- struct [DCM::DeviceControl::IPS\\_Out\\_PIDSettings\\_t](#)
- struct [DCM::DeviceControl::IPS\\_Out\\_ECMSettings\\_t](#)
- struct [DCM::DeviceControl::IPS\\_Out\\_ESSettings\\_t](#)
- struct [DCM::DeviceControl::IPS\\_Out\\_ServiceComponents\\_t](#)
- struct [DCM::DeviceControl::IPS\\_Out\\_ESSettings\\_V2\\_t](#)
- struct [DCM::DeviceControl::IPS\\_Out\\_ServiceComponents\\_V2\\_t](#)
- struct [DCM::DeviceControl::PcrSetting\\_t](#)
- struct [DCM::DeviceControl::IPS\\_In\\_ECMSettings\\_t](#)
- struct [DCM::DeviceControl::IPS\\_In\\_ESSettings\\_t](#)
- struct [DCM::DeviceControl::IPS\\_In\\_ServiceComponents\\_t](#)
- struct [DCM::DeviceControl::TableGenerationData\\_t](#)
- struct [DCM::DeviceControl::TableGenerationData\\_V2\\_t](#)
- struct [DCM::DeviceControl::SvcOutStreamingSetting\\_t](#)

- struct [DCM::DeviceControl::AsiFormatData\\_t](#)  
*Structure to set ASI format and output mode.*
- struct [DCM::DeviceControl::ASI\\_MirrorCfg\\_t](#)  
*Structure to define port mirroring for ASI.*
- struct [DCM::DeviceControl::IpCfg\\_t](#)
- struct [DCM::DeviceControl::VlanPortSet\\_t](#)  
*structure to Create/Get information on Vlan PortSets*
- struct [DCM::DeviceControl::ASI\\_BW\\_LimitData\\_t](#)
- struct [DCM::DeviceControl::InPort\\_8VSB\\_TuningParams\\_t](#)  
*Tuning parameters for an 8VSB input port.*
- struct [DCM::DeviceControl::InPort\\_8VSB\\_Config\\_t](#)  
*Represents the 8VSB input port specific settings.*
- struct [DCM::DeviceControl::InPort\\_8VSB\\_Statistics\\_t](#)  
*Defines the statistics that can be retrieved per 8VSB input port.*
- struct [DCM::DeviceControl::InPort\\_DvbS2\\_PortConfig\\_t](#)  
*Structure used to configure single stream or multi-stream mode per port.*
- struct [DCM::DeviceControl::InPort\\_DvbS2\\_TunerCfg\\_t](#)  
*Structure used to configure the DVB S2 tuner.*
- struct [DCM::DeviceControl::InPort\\_DvbS2\\_LncCfg\\_t](#)  
*Structure used to configure the DVB S2 LNC.*
- struct [DCM::DeviceControl::InPort\\_DvbS2\\_Status\\_t](#)  
*Structure used to retrieve status information of a DVB S2 port.*
- struct [DCM::DeviceControl::InPort\\_DvbS2\\_Counters\\_t](#)  
*Structure containing the different counters per DVB S2 port.*
- struct [DCM::DeviceControl::DvbS2\\_LookupTS\\_t](#)  
*Structure to find a specific TS by port and input stream identifier.*
- struct [DCM::DeviceControl::DvbS2\\_RefTS\\_t](#)  
*Structure containing the looked-up transport stream for a given lookupTS.*
- struct [DCM::DeviceControl::DvbS2\\_InputTS\\_t](#)  
*DvbS2 information of an incoming DVB-S2 input stream.*
- struct [DCM::DeviceControl::Debug\\_DvbS2\\_InputTS\\_t](#)  
*Information about a DVBS2 input TS, including the hardware index.*
- struct [DCM::DeviceControl::TableKeysExt\\_t](#)
- struct [DCM::DeviceControl::DescriptorData\\_t](#)
- struct [DCM::DeviceControl::DescriptorRule\\_t](#)
- struct [DCM::DeviceControl::DescriptorRuleSet\\_t](#)
- struct [DCM::DeviceControl::MergedESDescriptorData\\_t](#)
- struct [DCM::DeviceControl::CompactCaMode\\_t](#)  
*Compact CA descriptor setting (per input TS)*
- struct [DCM::DeviceControl::InTS\\_CompactCaMode\\_t](#)  
*Compact CA descriptor settings for specific TS.*
- struct [DCM::DeviceControl::PSIGSubTable\\_t](#)  
*Structure that describes a PSIG provision.*
- struct [DCM::DeviceControl::IIOP\\_SubTable\\_t](#)  
*Structure containing the properties a SubTable provisioned via IIOP.*
- struct [DCM::DeviceControl::PspUpdateLocation\\_t](#)
- struct [DCM::DeviceControl::PspUpdateRule\\_t](#)

*Definition of a PsipUpdate Rule Rule: number uniquely defining a rule 0: Add/update descriptor 2: Remove descriptor (this list should be updated when more rules are supported) RuleName: actual meaning of the rule (see above) Location: 0x02, 0xFFFFFFFF: PMT 0xCB, start-time: PsipEIT event RuleData: extra data of rule in readable form (UTF-8): Add/update descriptor: new descriptor in hex-string.*

- struct [DCM::DeviceControl::SvcOutPsipUpdateRule\\_t](#)
- struct [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_t](#)  
*The data struct for SCTE-35 command eREDUS\_switch.*
- struct [DCM::DeviceControl::Scte35Data\\_REDUS\\_Switch\\_Single\\_t](#)  
*The data struct for SCTE-35 command eREDUS\_switch\_single.*
- struct [DCM::DeviceControl::Scte35Data\\_DCM\\_input\\_switch\\_t](#)  
*The data struct for SCTE-35 command eDCM\_input\_switch.*
- struct [DCM::DeviceControl::Scte35Data\\_Select\\_now\\_t](#)  
*The data struct for SCTE-35 command eSelect\_now.*
- struct [DCM::DeviceControl::Scte35Data\\_Network\\_active\\_t](#)  
*The data struct for SCTE-35 command eNetwork\_feed\_active\_or\_inactive.*
- struct [DCM::DeviceControl::Scte35Data\\_Local\\_avail\\_t](#)  
*The data struct for SCTE-35 command eLocal\_avail\_enable\_or\_disable.*
- struct [DCM::DeviceControl::Scte35Data\\_Keyer\\_t](#)  
*The data struct for SCTE-35 command eKeyer\_on\_or\_off.*
- struct [DCM::DeviceControl::Scte35Data\\_Keyer\\_config\\_t](#)  
*The data struct for SCTE-35 command eKeyer\_config.*
- struct [DCM::DeviceControl::Scte35Data\\_Logo\\_enable\\_t](#)  
*The data struct for SCTE-35 command eLogo\_enable\_or\_disable.*
- union [DCM::DeviceControl::Scte35CommandAndData\\_t](#)  
*Union containing data structures of SCTE-35 commands.*
- struct [DCM::DeviceControl::FCS\\_Scte35\\_CommandSelect\\_t](#)
- struct [DCM::DeviceControl::MultipleStringSegment\\_t](#)  
*Multiple String: ATSC string representation.*
- struct [DCM::DeviceControl::MultipleStringElement\\_t](#)
- struct [DCM::DeviceControl::OutTsStandard\\_t](#)  
*Transport stream specific Output TS Standard setting parameters.*
- struct [DCM::DeviceControl::OutTS\\_SttTimeZone\\_t](#)  
*Transport stream specific STT time zone setting.*
- struct [DCM::DeviceControl::VCT\\_Data\\_t](#)  
*Structure that contains settings about the Virtual Channel Table of a service.*
- struct [DCM::DeviceControl::VCT\\_SvcInput\\_t](#)  
*Structure that contains status about the Virtual Channel Table of a service on input.*
- struct [DCM::DeviceControl::VCT\\_Forcing\\_t](#)
- struct [DCM::DeviceControl::VCT\\_SvcSetting\\_t](#)  
*Structure combining service-id with settings.*
- struct [DCM::DeviceControl::VCT\\_SvcData\\_t](#)  
*Structure that contains status about the Virtual Channel Table of a service.*
- struct [DCM::DeviceControl::OutTsServiceLocationAdded\\_t](#)  
*Transport stream specific "Service Location Added" setting parameters.*
- struct [DCM::DeviceControl::OutTS\\_PsipEitStartPid\\_t](#)
- struct [DCM::DeviceControl::OutTS\\_PsipEttStartPid\\_t](#)
- struct [DCM::DeviceControl::Svc\\_PsipEitRegenerationInfo\\_t](#)  
*Structure combining service information with the number of regenerated PSIP-EIT subtables.*

- struct [DCM::DeviceControl::Svc\\_PsipEttRegenerationInfo\\_t](#)  
*Structure combining service information with the number of regenerated PSIP-ETT subtables.*
- struct [DCM::DeviceControl::OutTS\\_PsipEttvPid\\_t](#)
- struct [DCM::DeviceControl::ETTV\\_ContentSetting\\_t](#)  
*Structure combining service-id with settings.*
- struct [DCM::DeviceControl::ETTV\\_ContentData\\_t](#)  
*Structure that contains status about the Content of an ETTV.*
- struct [DCM::DeviceControl::PsipMgtInfo\\_t](#)
- struct [DCM::DeviceControl::TS\\_PsipMgtInfo\\_t](#)
- struct [DCM::DeviceControl::BitRateMeasurement\\_t](#)  
*General structure to hold bitrate measurement data.*
- struct [DCM::DeviceControl::TS\\_BitRateMeasurement\\_t](#)
- struct [DCM::DeviceControl::ServiceBitRateMeasurement\\_t](#)
- struct [DCM::DeviceControl::TS\\_CompBitRateMeasurement\\_t](#)
- struct [DCM::DeviceControl::ServiceCompBitRateMeasurement\\_t](#)
- struct [DCM::DeviceControl::ServiceBitRateSample\\_t](#)
- struct [DCM::DeviceControl::TRBitRateSample\\_t](#)
- struct [DCM::DeviceControl::TR\\_BitRateMeasurement\\_t](#)
- struct [DCM::DeviceControl::SlateData\\_t](#)
- struct [DCM::DeviceControl::TC\\_CaptionInfo\\_t](#)  
*Configuration settings for a Closed Caption Service.*
- struct [DCM::DeviceControl::MFPB\\_BoardCfg\\_t](#)  
*Structure to set/get transcoder board configuration.*
- struct [DCM::DeviceControl::ResourcesLoad\\_t](#)  
*Resource loads.*
- struct [DCM::DeviceControl::RefProcessorEngineUnit\\_t](#)  
*Identify a processing engine unit of a processor board.*
- struct [DCM::DeviceControl::MFPB\\_EngineUnitCfg\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_ServiceCfg\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_MPEG2FramePicturesCfg\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_ServiceTrackingID\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_Component\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_ServiceComponents\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_VideoResolution\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_VideoStatus\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_VideoInformation\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_VideoServiceInformation\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_VideoDecode\\_t](#)  
*Video decode settings together with fields identifying the video component they're for.*
- struct [DCM::DeviceControl::MFPB\\_VideoDecodeCfg\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_VideoEncoderTemplate\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_VideoEncodeSettings\\_t](#)  
*Video encode settings.*
- struct [DCM::DeviceControl::MFPB\\_VideoEncode\\_t](#)  
*Video encode settings together with field identifying the video component they're for.*
- struct [DCM::DeviceControl::MFPB\\_VideoEncodeCfg\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_MultiResABR\\_t](#)  
*Note: it is required that FragmentLength and SegmentLength are a multiple of one another.*

- struct [DCM::DeviceControl::MFPB\\_VideoEncodeSettingsV2\\_t](#)  
*Video encode settings.*
- struct [DCM::DeviceControl::MFPB\\_VideoEncodeV2\\_t](#)  
*Video encode settings together with field identifying the video component they're for.*
- struct [DCM::DeviceControl::MFPB\\_VideoEncodeCfgV2\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeSettings\\_t](#)  
*MultiResolution Video encode settings.*
- struct [DCM::DeviceControl::MFPB\\_MultiResVideoEncode\\_t](#)  
*MultiRes video encode settings together with field identifying the video component they're for.*
- struct [DCM::DeviceControl::MFPB\\_MultiResVideoEncodeCfg\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_AudioStatus\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_AudioInformation\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_AudioServiceInformation\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_AudioDecode\\_t](#)  
*Audio decode settings together with fields identifying the Audio component they're for.*
- struct [DCM::DeviceControl::MFPB\\_AudioDecodeCfg\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_AudioEncodeSettings\\_t](#)  
*Audio encode settings.*
- struct [DCM::DeviceControl::MFPB\\_AudioEncode\\_t](#)  
*Audio encode settings together with field identifying the Audio component they're for.*
- struct [DCM::DeviceControl::MFPB\\_AudioEncodeCfg\\_t](#)
- struct [DCM::DeviceControl::MFPB\\_MPEGL2\\_AudioSettings\\_t](#)  
*MPEG1-L2 audio processing settings.*
- struct [DCM::DeviceControl::MFPB\\_MPEGL2AudioCfg\\_t](#)  
*Configuration settings for the MPEG1-L2 audio settings of a service.*
- struct [DCM::DeviceControl::MFPB\\_AAC\\_AudioSettings\\_t](#)  
*AAC audio processing settings.*
- struct [DCM::DeviceControl::MFPB\\_AacAudioCfg\\_t](#)  
*Configuration settings for the AAC audio settings of a service.*
- struct [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_t](#)  
*Dolby audio processing settings.*
- struct [DCM::DeviceControl::MFPB\\_DolbyAudioCfg\\_t](#)  
*Configuration settings for the Dolby audio settings of a service.*
- struct [DCM::DeviceControl::MFPB\\_Dolby\\_AudioSettings\\_V2\\_t](#)  
*Dolby audio processing settings.*
- struct [DCM::DeviceControl::MFPB\\_DolbyAudioCfg\\_V2\\_t](#)  
*Configuration settings for the Dolby audio settings of a service.*
- struct [DCM::DeviceControl::MFPB\\_AudioDecodeExtraMPEGL2Settings\\_t](#)  
*Extra MPEG1-L2 decoder settings per audio ES.*
- struct [DCM::DeviceControl::MFPB\\_AudioDecodeExtraMPEGL2Cfg\\_t](#)  
*Configuration for extra MPEG1-L2 decoder settings per service.*
- struct [DCM::DeviceControl::MFPB\\_AudioDecodeExtraAACSettings\\_t](#)  
*Extra AAC decoder settings per audio ES.*
- struct [DCM::DeviceControl::MFPB\\_AudioDecodeExtraAACCfg\\_t](#)  
*Configuration for extra AAC decoder settings per service.*
- struct [DCM::DeviceControl::MFPB\\_AudioDecodeExtraDolbySettings\\_t](#)  
*Extra Dolby decoder settings per audio ES.*



- struct [DCM::DeviceControl::MFPB\\_AudioDecodeExtraDolbyCfg\\_t](#)  
*Configuration for extra Dolby decoder settings per service.*
- struct [DCM::DeviceControl::MFPB\\_ES\\_CaptionInfo\\_t](#)  
*Configuration settings for the Caption Service Descriptor of an ES.*
- struct [DCM::DeviceControl::MFPB\\_Svc\\_CaptionInfo\\_t](#)  
*Configuration settings for the Caption Service Descriptor(s) of a service.*
- struct [DCM::DeviceControl::MFPB\\_DD\\_MetaStatus\\_t](#)  
*Dolby meta data status for a specific component.*
- struct [DCM::DeviceControl::MFPB\\_DD\\_MetaDecStatus\\_t](#)  
*Dolby meta data status on the decoder side for a specific component.*
- struct [DCM::DeviceControl::MFPB\\_ServiceDD\\_MetaDecStatus\\_t](#)  
*Dolby meta data status on the decoder side for a specific service.*
- struct [DCM::DeviceControl::MFPB\\_MetaDataCfg\\_t](#)  
*audio meta data settings for a specific component.*
- struct [DCM::DeviceControl::MFPB\\_ServiceMetaDataCfg\\_t](#)  
*audio meta data settings for a specific service.*
- struct [DCM::DeviceControl::TC\\_BoardCfg\\_t](#)
- struct [DCM::DeviceControl::TC\\_PossibleBoardCfg\\_t](#)
- struct [DCM::DeviceControl::TC\\_BoardCfg\\_V2\\_t](#)  
*Structure to set/get transcoder board configuration.*
- struct [DCM::DeviceControl::TC\\_PossibleBoardCfg\\_V2\\_t](#)  
*Structure to get possible board configurations for a transcoder board.*
- struct [DCM::DeviceControl::EsEntry\\_t](#)
- struct [DCM::DeviceControl::SelectionListEntry\\_t](#)
- struct [DCM::DeviceControl::TC\\_Question\\_t](#)
- struct [DCM::DeviceControl::TC\\_DependantQuestion\\_t](#)
- struct [DCM::DeviceControl::TC\\_ServiceTrackingID\\_t](#)
- struct [DCM::DeviceControl::TC\\_VideoEncodeSettings\\_t](#)  
*Video encode settings.*
- struct [DCM::DeviceControl::TC\\_VideoDecode\\_t](#)  
*Video decode settings together with fields identifying the video component they're for.*
- struct [DCM::DeviceControl::TC\\_VideoEncode\\_t](#)  
*Video encode settings together with field identifying the video component they're for.*
- struct [DCM::DeviceControl::TC\\_VideoSettings\\_t](#)  
*Video transcode settings.*
- struct [DCM::DeviceControl::TC\\_VideoResolution\\_t](#)
- struct [DCM::DeviceControl::TC\\_VideoStatus\\_t](#)
- struct [DCM::DeviceControl::TC\\_Video\\_t](#)  
*Video transcode settings together with fields identifying the video component they're for.*
- struct [DCM::DeviceControl::TC\\_VideoInformation\\_t](#)
- struct [DCM::DeviceControl::TC\\_PipSettings\\_t](#)
- struct [DCM::DeviceControl::TC\\_Pip\\_t](#)
- struct [DCM::DeviceControl::TC\\_AudioSettings\\_t](#)
- struct [DCM::DeviceControl::TC\\_AudioStatus\\_t](#)
- struct [DCM::DeviceControl::TC\\_Audio\\_t](#)
- struct [DCM::DeviceControl::TC\\_AudioInformation\\_t](#)
- struct [DCM::DeviceControl::TC\\_ServiceCfg\\_t](#)
- struct [DCM::DeviceControl::TC\\_VideoDecodeCfg\\_t](#)



- struct [DCM::DeviceControl::TC\\_VideoEncodeCfg\\_t](#)
- struct [DCM::DeviceControl::TC\\_VideoCfg\\_t](#)
- struct [DCM::DeviceControl::TC\\_VideoServiceInformation\\_t](#)
- struct [DCM::DeviceControl::TC\\_PipCfg\\_t](#)
- struct [DCM::DeviceControl::TC\\_AudioCfg\\_t](#)
- struct [DCM::DeviceControl::TC\\_AudioServiceInformation\\_t](#)
- struct [DCM::DeviceControl::TC\\_Component\\_t](#)
- struct [DCM::DeviceControl::TC\\_ServiceComponents\\_t](#)
- struct [DCM::DeviceControl::TC\\_ES\\_CaptionInfo\\_t](#)

*Configuration settings for the Caption Service Descriptor of an ES.*

- struct [DCM::DeviceControl::TC\\_Svc\\_CaptionInfo\\_t](#)

*Configuration settings for the Caption Service Descriptor(s) of a service.*

- struct [DCM::DeviceControl::FontCfg\\_t](#)
- struct [DCM::DeviceControl::LogoCfg\\_t](#)
- struct [DCM::DeviceControl::MaximumLogoSize\\_t](#)
- struct [DCM::DeviceControl::LogoCfgFileNumber\\_t](#)
- struct [DCM::DeviceControl::Color\\_t](#)
- struct [DCM::DeviceControl::BannerCfg\\_t](#)
- struct [DCM::DeviceControl::BannerCfg\\_V2\\_t](#)
- struct [DCM::DeviceControl::TC\\_Banner\\_t](#)
- struct [DCM::DeviceControl::TC\\_Banner\\_V2\\_t](#)
- struct [DCM::DeviceControl::TC\\_BannerSettings\\_t](#)
- struct [DCM::DeviceControl::TC\\_BannerStatus\\_t](#)
- struct [DCM::DeviceControl::TC\\_ServiceBannerStatus\\_t](#)
- struct [DCM::DeviceControl::TC\\_LogoSetting\\_t](#)
- struct [DCM::DeviceControl::TC\\_Logo\\_t](#)
- struct [DCM::DeviceControl::TC\\_LogoDisplay\\_t](#)
- struct [DCM::DeviceControl::TC\\_ServiceLogoDisplay\\_t](#)
- struct [DCM::DeviceControl::TC\\_LogoCfg\\_t](#)
- struct [DCM::DeviceControl::TC\\_LogoKeyerID\\_t](#)
- struct [DCM::DeviceControl::TC\\_ServiceLogoCfgID\\_t](#)
- struct [DCM::DeviceControl::TR\\_ResourceCountingSettings\\_t](#)

*Settings needed to calculate different loads on TR board which can be modified by user.*

- struct [DCM::DeviceControl::TR\\_ResourceCountingLoads\\_t](#)

*Calculated loads on TR board available for user.*

- struct [DCM::DeviceControl::TR\\_GroupID\\_t](#)

*Used for referencing transrater staging groups.*

- struct [DCM::DeviceControl::TR\\_DelayMode\\_t](#)
- struct [DCM::DeviceControl::TR\\_DelayMode\\_V2\\_t](#)
- struct [DCM::DeviceControl::TR\\_BitrateLimits\\_t](#)

*Min - max bitrate boundaries used for service.*

- struct [DCM::DeviceControl::TR\\_GroupSettings\\_t](#)

*Used to create and change transrater staging groups.*

- struct [DCM::DeviceControl::TR\\_TSSettings\\_t](#)

*Represents an output transport stream in a transrater staging context.*

- struct [DCM::DeviceControl::TR\\_TSAdd\\_t](#)

*Used to couple output transport stream(s) to a transrater group.*

- struct [DCM::DeviceControl::TR\\_Service\\_t](#)

*Identifies an output service in a transrater staging context.*

- struct [DCM::DeviceControl::TR\\_ServiceSettings\\_t](#)  
*Transrater specific service settings.*
- struct [DCM::DeviceControl::TR\\_GroupServiceSettings\\_t](#)
- struct [DCM::DeviceControl::TR\\_ServiceSettings\\_V2\\_t](#)  
*Transrater specific service settings V2.*
- struct [DCM::DeviceControl::TR\\_GroupServiceSettings\\_V2\\_t](#)
- struct [DCM::DeviceControl::RMX\\_GroupSettings\\_t](#)  
*Realignment Mux group settings.*
- struct [DCM::DeviceControl::RMX\\_GroupSvc\\_t](#)  
*A service that is part of a Realignment Mux group.*
- struct [DCM::DeviceControl::RMX\\_GroupSvcs\\_t](#)  
*A set of services belonging to the same Realignment Mux group.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_GroupSettings\\_t](#)  
*Statmux group settings The Type of the SMXGroup is important concerning further behavior and meanings of the different fields.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_TsSettings\\_t](#)  
*Data linked with a TS in statmux context.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_Group\\_TSSettings\\_t](#)  
*List of TS settings on Statmux group Can be used to add/get TS to/from a group.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_Group\\_TSs\\_t](#)  
*List of TS on a Statmux group, used for deleting TS from gorup.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_t](#)  
*Statmux setting of a service.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_SvcSettings\\_V2\\_t](#)  
*Statmux setting of a service, Version 2.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_Group\\_SvcSettings\\_t](#)  
*Service settings within a group.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_Group\\_SvcSettings\\_V2\\_t](#)  
*Service settings within a group.*
- struct [DCM::DeviceControl::SMX\\_MFP\\_Group\\_Svc\\_t](#)  
*Services in a group.*
- struct [DCM::DeviceControl::IPS\\_OutPID\\_Sync\\_t](#)
- struct [DCM::DeviceControl::IPS\\_OutServiceSync\\_t](#)
- struct [DCM::DeviceControl::IPS\\_OutPID\\_Sync\\_V2\\_t](#)
- struct [DCM::DeviceControl::IPS\\_OutServiceSync\\_V2\\_t](#)
- struct [DCM::DeviceControl::SlateService\\_t](#)
- struct [DCM::DeviceControl::TR\\_AudioLevel\\_t](#)
- struct [DCM::DeviceControl::TR\\_ServiceAudioLevel\\_t](#)
- struct [DCM::DeviceControl::TR\\_TsDelay\\_t](#)  
*TS Delay settings.*
- struct [DCM::DeviceControl::DPI\\_ChannelName\\_t](#)  
*A spliceable channel name.*
- struct [DCM::DeviceControl::DPI\\_ShortChannelStatus\\_t](#)
- struct [DCM::DeviceControl::DPI\\_ChannelSettings\\_t](#)
- struct [DCM::DeviceControl::DPI\\_ChannelSettings2\\_t](#)
- struct [DCM::DeviceControl::DPI\\_ChannelSettings3\\_t](#)
- struct [DCM::DeviceControl::DPI\\_ChannelStatus\\_t](#)
- struct [DCM::DeviceControl::DPI\\_Time\\_t](#)

*UTC since jan 1 1970.*

- struct [DCM::DeviceControl::DPI\\_CueRequest\\_t](#)
- struct [DCM::DeviceControl::DPI\\_SpliceRequestTime\\_t](#)

*A splice request is supposed to arrive a few seconds in advance of the actual splice time.*

- struct [DCM::DeviceControl::DPI\\_SpliceRequest\\_t](#)
- struct [DCM::DeviceControl::DPI\\_PidCouple\\_t](#)
- struct [DCM::DeviceControl::DPI\\_PmtSpliceModeSetting\\_t](#)

*Struct to set/get ePMT\_SpliceMode per channel.*

- struct [DCM::DeviceControl::ETV\\_Primary\\_Settings\\_t](#)
- struct [DCM::DeviceControl::ETV\\_Insertion\\_Settings\\_t](#)
- struct [DCM::DeviceControl::ETV\\_ManipulationSettings\\_t](#)
- struct [DCM::DeviceControl::ETV\\_Primary\\_Settings\\_V2\\_t](#)
- struct [DCM::DeviceControl::ETV\\_Insertion\\_Settings\\_V2\\_t](#)
- struct [DCM::DeviceControl::ETV\\_ManipulationSettings\\_V2\\_t](#)
- struct [DCM::DeviceControl::ETV\\_ApplicationIdent\\_t](#)
- struct [DCM::DeviceControl::ETV\\_EissFilter\\_t](#)
- struct [DCM::DeviceControl::ClearPidBitrates\\_t](#)
- struct [DCM::DeviceControl::AddPidsFromSplice\\_t](#)
- struct [DCM::DeviceControl::AlternateSource\\_t](#)

*A definition of an alternate source.*

- struct [DCM::DeviceControl::AlternateSourceSettings\\_t](#)

*All the settings concerning alternate sources for one output service.*

- struct [DCM::DeviceControl::Scte35Source\\_t](#)
- struct [DCM::DeviceControl::Scte35ToggleOutOfNetwork\\_t](#)
- struct [DCM::DeviceControl::IPS\\_OutTS\\_RTP\\_t](#)
- struct [DCM::DeviceControl::VLAN\\_Settings\\_t](#)
- struct [DCM::DeviceControl::OutTS\\_VLAN\\_t](#)
- struct [DCM::DeviceControl::OutTS\\_TOS\\_t](#)
- struct [DCM::DeviceControl::SrcAddr\\_t](#)

*Structure to specify some Ip header parameters for outgoing GbE packets.*

- struct [DCM::DeviceControl::OutTS\\_SrcAddr\\_t](#)

*Source Address parameters for an OutTS.*

- struct [DCM::DeviceControl::OutTS\\_SrcAddr\\_V2\\_t](#)
- struct [DCM::DeviceControl::OutTS\\_TTL\\_t](#)
- struct [DCM::DeviceControl::OutTS\\_VBR\\_t](#)
- struct [DCM::DeviceControl::OutTS\\_UdpSize\\_t](#)
- struct [DCM::DeviceControl::PortFilter\\_t](#)
- struct [DCM::DeviceControl::ArpEntry\\_t](#)
- struct [DCM::DeviceControl::IP\\_Route\\_t](#)
- struct [DCM::DeviceControl::IP\\_Route\\_t\\_V2](#)
- struct [DCM::DeviceControl::EndDeviceEntry\\_t](#)
- struct [DCM::DeviceControl::FEC\\_Dec\\_Setting\\_t](#)

*FEC decoder settings.*

- struct [DCM::DeviceControl::InTS\\_FEC\\_Dec\\_Setting\\_t](#)

*FEC encoder settings for specific TS.*

- struct [DCM::DeviceControl::InTS\\_FEC\\_Dec\\_DefRuleSetting\\_t](#)

*FEC decoder default rule settings.*

- struct [DCM::DeviceControl::FEC\\_Dec\\_Statistics\\_t](#)

*FEC decoder statistics.*

- struct [DCM::DeviceControl::InTS\\_FEC\\_Dec\\_Statistics\\_t](#)  
*FEC decoder statistics for specific TS.*
- struct [DCM::DeviceControl::FEC\\_Dec\\_Status\\_t](#)  
*FEC decoder status.*
- struct [DCM::DeviceControl::InTS\\_FEC\\_Dec\\_Status\\_t](#)  
*FEC decoder status for specific TS.*
- struct [DCM::DeviceControl::FEC\\_Enc\\_Setting\\_t](#)  
*FEC encoder settings.*
- struct [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Setting\\_t](#)  
*FEC encoder settings for specific TS.*
- struct [DCM::DeviceControl::FEC\\_Enc\\_Setting\\_V2\\_t](#)  
*FEC encoder settings.*
- struct [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Setting\\_V2\\_t](#)  
*FEC encoder settings for specific TS.*
- struct [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_DefSetting\\_t](#)  
*Default FEC encoder settings (to be applied for new TS's)*
- struct [DCM::DeviceControl::FEC\\_Enc\\_ErrorGen\\_t](#)  
*FEC error generation parameters.*
- struct [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_ErrorGen\\_t](#)  
*FEC error generation for specific TS.*
- struct [DCM::DeviceControl::FEC\\_Enc\\_Overhead\\_t](#)  
*Bitrate overhead, due to FEC encoding.*
- struct [DCM::DeviceControl::OutTS\\_FEC\\_Enc\\_Overhead\\_t](#)  
*Bitrate overhead for specific TS.*
- struct [DCM::DeviceControl::HitlessMergeSetting\\_t](#)  
*Hitless merge input TS settings.*
- struct [DCM::DeviceControl::InTS\\_HitlessMergeSetting\\_t](#)  
*Hitless merge settings for specific TS.*
- struct [DCM::DeviceControl::GbEFramesRecv\\_t](#)
- struct [DCM::DeviceControl::GbEFramesTrans\\_t](#)
- struct [DCM::DeviceControl::GbEStatisticsEntry\\_t](#)
- struct [DCM::DeviceControl::GbEPortStatsEntry\\_t](#)
- struct [DCM::DeviceControl::IGMPv2MulticastGroup\\_t](#)
- struct [DCM::DeviceControl::IGMPv3Group\\_t](#)
- struct [DCM::DeviceControl::PCTM\\_ThresholdValues\\_t](#)  
*Threshold settings.*
- struct [DCM::DeviceControl::PCTM\\_StreamThresholdSettings\\_t](#)  
*Threshold settings for the packet types of one stream.*
- struct [DCM::DeviceControl::PCTM\\_PacketCounters\\_t](#)  
*Packet counter values.*
- struct [DCM::DeviceControl::PCTM\\_StreamPacketCounters\\_t](#)  
*Packet counters of one stream.*
- struct [DCM::DeviceControl::Feature\\_t](#)
- struct [DCM::DeviceControl::LicenseValidation\\_t](#)
- struct [DCM::DeviceControl::TempLicenseData](#)
- struct [DCM::DeviceControl::FeatureUsage\\_t](#)  
*Represents the license usage count per feature.*

- struct [DCM::DeviceControl::BoardFeatureUsage\\_t](#)  
*Contains the feature usage per board.*
- struct [DCM::DeviceControl::ServiceLossTrigger\\_t](#)
- struct [DCM::DeviceControl::TS\\_LossTrigger\\_t](#)
- struct [DCM::DeviceControl::DeviceBackupLink\\_t](#)  
*Configuration of a link between 2 devices for use with Device Backup.*
- struct [DCM::DeviceControl::DeviceBackupParams\\_t](#)
- struct [DCM::DeviceControl::DeviceBackupParamsV2\\_t](#)  
*Following combinations of Roles and Modes are valid:*
- struct [DCM::DeviceControl::AlarmTriggerRule\\_t](#)
- struct [DCM::DeviceControl::RestoreOption](#)  
*Single settings restore option.*
- struct [DCM::DeviceControl::RestoreOption\\_V2](#)  
*Single settings restore option.*
- struct [DCM::DeviceControl::TS\\_BackupParams\\_t](#)
- struct [DCM::DeviceControl::MIP\\_SyncTargetSettings\\_t](#)
- struct [DCM::DeviceControl::ASI\\_DTF\\_t](#)  
*Structure holding DTF input settings.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_Ex\\_t](#)  
*Structure holding DTF input settings. The difference with the [ASI\\_DTF\\_t](#) structure is that this structure here doesn't hold the scrambling key directly. Instead, it holds a reference to a key in the list that can be set up using the [ASI\\_DTF\\_SetKeyList](#) method. Also the scrambling type can be selected to be odd or even.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_RDCS\\_t](#)  
*Structure holding DTF RDCS input settings. From V9.0 onwards.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_t](#)  
*Structure holding DTF output settings.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_Ex\\_t](#)  
*Structure holding DTF output settings. The difference with the [ASI\\_DTF\\_OutputTS\\_t](#) is that this structure here provides for scrambling type, scrambling key indices and the possibility to overrule the input-level settings by one global setting.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_OutputTS\\_RDCS\\_t](#)  
*Structure holding DTF RDCS output settings. From V9.0 onwards.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_ScramblingKeyPair\\_t](#)  
*Structure holding DTF scrambling keys.*
- struct [DCM::DeviceControl::ASI\\_DTF\\_ScramblingKey\\_t](#)
- struct [DCM::DeviceControl::MM\\_MessageMainPart](#)  
*Structure to pass Messages from the device to whatever client.*
- struct [DCM::DeviceControl::MM\\_Message](#)
- struct [DCM::DeviceControl::MessageBufferInfo](#)
- struct [DCM::DeviceControl::MessageSetting](#)  
*Message settings.*
- struct [DCM::DeviceControl::MM\\_MessageTypeSetting](#)  
*Message type settings.*
- struct [DCM::DeviceControl::MM\\_MessageSetting](#)  
*Measurement message settings.*
- struct [DCM::DeviceControl::MM\\_Measurement](#)
- struct [DCM::DeviceControl::MM\\_TypeInfo](#)
- struct [DCM::DeviceControl::MM\\_TypeInfo\\_V2](#)

V2 of *MM\_TypeInfo*: *BackupTriggerMethod* is added.

- struct [DCM::DeviceControl::MM\\_MeasurementStat](#)
- struct [DCM::DeviceControl::BoardBitrateThreshold](#)

The bitrate threshold for video, audio and data service losses (board specific).

- struct [DCM::DeviceControl::MM\\_MessageTypeErrorInterval](#)
- struct [DCM::DeviceControl::CofTrigger\\_t](#)

Structure used in the configuration of the triggers for card not operational failure alarms.

- struct [DCM::DeviceControl::BitrateAlarmSetting\\_t](#)

Structure to pass payload and stuffing bitrate threshold alarm settings.

- struct [DCM::DeviceControl::OutTS\\_AlarmSetting\\_t](#)

Structure to pass payload and stuffing bitrate threshold alarm settings to one specific TS.

- struct [DCM::DeviceControl::ServiceBackupParams\\_t](#)
- struct [DCM::DeviceControl::BackupService\\_t](#)
- struct [DCM::DeviceControl::BackupSrvTable\\_t](#)
- struct [DCM::DeviceControl::ServiceBackupParams2\\_t](#)
- struct [DCM::DeviceControl::AltSrcBU\\_Setting\\_t](#)
- struct [DCM::DeviceControl::AltSrcMergeActiveInSvc\\_t](#)
- struct [DCM::DeviceControl::TsOutSvcSourceSelection\\_t](#)
- struct [DCM::DeviceControl::SMX\\_PoolRef\\_t](#)
- struct [DCM::DeviceControl::SMX\\_StatMuxPool](#)
- struct [DCM::DeviceControl::SMX\\_StatMuxPool\\_V2](#)
- struct [DCM::DeviceControl::SMX\\_EncRef\\_t](#)
- struct [DCM::DeviceControl::SMX\\_Encoder\\_t](#)
- struct [DCM::DeviceControl::SMX\\_ServiceRef\\_t](#)
- struct [DCM::DeviceControl::SMX\\_Service\\_t](#)
- struct [DCM::DeviceControl::SMX\\_EncVideoBitRate\\_t](#)
- struct [DCM::DeviceControl::SMX36\\_NetworkQoS\\_t](#)
- struct [DCM::DeviceControl::SMX36\\_Community\\_t](#)
- struct [DCM::DeviceControl::SMX36\\_StatmuxController\\_t](#)
- struct [DCM::DeviceControl::SMX36\\_Pool\\_t](#)
- struct [DCM::DeviceControl::SMX36\\_Pool\\_V2\\_t](#)
- struct [DCM::DeviceControl::SMX36\\_AlgorithmIdentifier\\_t](#)
- struct [DCM::DeviceControl::SMX36\\_Encoder\\_t](#)
- struct [DCM::DeviceControl::SMX36\\_VSEParams\\_t](#)
- struct [DCM::DeviceControl::SMX36\\_VSEParams\\_V2\\_t](#)

For URC mode (planned 10.20)

- struct [DCM::DeviceControl::SMX36\\_VSE\\_t](#)
- struct [DCM::DeviceControl::SMX36\\_VSE\\_V2\\_t](#)

Implemented in V9.10.

- struct [DCM::DeviceControl::SMX36\\_VSE\\_V3\\_t](#)

Implemented in V10.20.

- struct [DCM::DeviceControl::SMX36\\_VSE\\_V4\\_t](#)

Implemented in V11.00.

- struct [DCM::DeviceControl::SMX36\\_VSE\\_CalculatedRates\\_t](#)
- struct [DCM::DeviceControl::SMX\\_Pool\\_Calculate\\_t](#)
- struct [DCM::DeviceControl::SMX36\\_VSEBackup\\_t](#)
- struct [DCM::DeviceControl::SMX36\\_VSEBackup\\_V2\\_t](#)
- struct [DCM::DeviceControl::IPSecHost](#)
- struct [DCM::DeviceControl::ExtIpServiceCtrl](#)

- struct [DCM::DeviceControl::IpServiceDisplayData](#)  
*Description of an active or listening port.*
- struct [DCM::DeviceControl::JclInitialValue\\_t](#)  
*JCL initial value for Hitachi.*
- struct [DCM::DeviceControl::JclSystemId\\_t](#)  
*JCL system ID for Hitachi.*
- struct [DCM::DeviceControl::AC\\_t](#)  
*Access Criteria.*
- struct [DCM::DeviceControl::TierAC\\_t](#)  
*Access criteria for tier based scrambling.*
- struct [DCM::DeviceControl::TierData\\_t](#)  
*Tier data.*
- struct [DCM::DeviceControl::TS\\_Tier\\_t](#)  
*Tier based settings.*
- struct [DCM::DeviceControl::DescrResource\\_t](#)  
*Structure containing identification information about the descrambling resource.*
- struct [DCM::DeviceControl::DescrServiceData\\_t](#)  
*A structure with attributes of the service routed to the descrambler.*
- struct [DCM::DeviceControl::DescrTS\\_Data\\_t](#)  
*Structure with data of a TS added to a descrambler.*
- struct [DCM::DeviceControl::DescrTS\\_Data\\_V2\\_t](#)  
*Structure with data of a TS added to a descrambler.*
- struct [DCM::DeviceControl::DescrTrackingRule\\_t](#)  
*Defines a tracking rule for descrambling, including the BISS session word.*
- struct [DCM::DeviceControl::DescrSvcConfig\\_t](#)  
*Defines how the service is descrambled.*
- struct [DCM::DeviceControl::DescrCAM\\_Cfg\\_t](#)  
*Defines the configuration of the CAM itself.*
- struct [DCM::DeviceControl::DescrCAM\\_Cfg\\_V2\\_t](#)  
*Defines the configuration of the CAM itself.*
- struct [DCM::DeviceControl::DescrCAM\\_BackupCfg\\_t](#)  
*Structure used to configure CAM backup.*
- struct [DCM::DeviceControl::DescrCAM\\_Status\\_t](#)  
*Structure containing information about a CAM.*
- struct [DCM::DeviceControl::DescrBISS\\_Cfg\\_t](#)  
*Configuration of BISS descrambling.*
- struct [DCM::DeviceControl::EasConfig\\_t](#)  
*Represents the configuration of an EAS proxy.*
- struct [DCM::DeviceControl::GPS\\_Settings\\_t](#)
- struct [DCM::DeviceControl::MIP\\_Settings\\_t](#)
- struct [DCM::DeviceControl::GPS\\_Status\\_t](#)
- struct [DCM::DeviceControl::PacketIndexerSettings\\_t](#)
- struct [DCM::DeviceControl::IPI\\_Settings\\_t](#)
- struct [DCM::DeviceControl::InTS\\_IPI\\_Settings\\_t](#)  
*Information to change the IndexPacketInterpreter settings of an incoming TS.*
- struct [DCM::DeviceControl::TsPacketIndexerID\\_Data\\_t](#)
- struct [DCM::DeviceControl::ASI\\_SFN\\_MKII\\_MDP\\_MultiplicationSettings\\_t](#)

- struct [DCM::DeviceControl::ASI\\_SF\\_N\\_MKII\\_RDCS\\_Settings\\_t](#)
- struct [DCM::DeviceControl::ASI\\_SF\\_N\\_MKII\\_TS\\_Output\\_Mode\\_t](#)
- struct [DCM::DeviceControl::DCG\\_InputTS\\_t](#)

*Information of an incoming TS.*

- struct [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_t](#)  
*Prior to version 9.10: Between 10 and 100 (default 60) A sequence of [DCG\\_InputTS\\_t](#) entries.*
- struct [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V2\\_t](#)

*Prior to version 9.10: Between 10 and 100 (default 60)*

- struct [DCM::DeviceControl::DCG\\_InputRTP\\_Stream\\_V3\\_t](#)

*Prior to version 9.10: Between 10 and 100 (default 60)*

- struct [DCM::DeviceControl::DCG\\_OutputTS\\_t](#)

*Information-Settings of an outgoing TS.*

- struct [DCM::DeviceControl::DCG\\_OutputRTP\\_Stream\\_t](#)
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- interface [DCM::DeviceCallback](#)
- interface [DCM::DCM\\_Notifications](#)

*Description of all external notifications.*



- struct [DCM::DCM\\_Notifications::Messages](#)  
*Notification sent by MB when a new message is available (alarms)*
- struct [DCM::DCM\\_Notifications::DCM\\_TsIdOnIdChange](#)  
*Notification sent by IO when an alarm configured as trigger changes current state (alarms) No parameters given.*
- struct [DCM::DCM\\_Notifications::Output\\_TS\\_Change](#)
- struct [DCM::DCM\\_Notifications::Output\\_TS\\_Delete](#)  
*Notification sent when a TS is deleted (removed from DCM).*
- struct [DCM::DCM\\_Notifications::Output\\_SI\\_TableChng](#)  
*Notification sent when a Table is added (starts streaming) or changed.*
- struct [DCM::DCM\\_Notifications::Output\\_SI\\_TableDel](#)  
*Notification sent when a Table is deleted (stops streaming).*

### Packages

- namespace [DCM](#)

### Variables

- const unsigned short [DCM::MAX\\_ACTIVE\\_OUTPUT\\_TS\\_PER\\_BOARD](#) = 500  
*DEFINES:*
- const unsigned short [DCM::MAX\\_ACTIVE\\_OUTPUT\\_TS\\_PER\\_PORT](#) = 250  
*Active streaming.*
- const unsigned short [DCM::MAX\\_OUTPUT\\_TS\\_PER\\_BOARD](#) = 2000  
*Active streaming.*

#### 11.1.1 Detailed Description

This file holds the general interface definition of the DCM module.

Definition in file [DCM.idl](#).

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