Inhalt

[2 Classes 1](#_Toc70337316)

[2.1 1PpsPlusTod\_Pac 1](#_Toc70337317)

[2.2 ClockSpec 2](#_Toc70337318)

[2.3 NeSync\_Pac 2](#_Toc70337319)

[2.4 PhysicalLayerFrequencySync\_Pac 3](#_Toc70337320)

[2.5 PtpDomainConstraint\_Pac 4](#_Toc70337321)

[2.6 PtpSync\_Pac 5](#_Toc70337322)

[2.7 Ptp\_Pac 7](#_Toc70337323)

[2.8 SsmExternalClock\_Pac 9](#_Toc70337324)

[2.9 SsmInBand\_Pac 10](#_Toc70337325)

[2.10 SyncCdSpec 11](#_Toc70337326)

[2.11 SyncLpSpec 12](#_Toc70337327)

[2.12 SyncProtectionSpec 13](#_Toc70337328)

[3 Data Types 14](#_Toc70337329)

[3.1 ExternalTimePortDataset 14](#_Toc70337330)

[3.2 IeeeEui64 16](#_Toc70337331)

[3.3 PtpDefaultDataset 16](#_Toc70337332)

[3.4 PtpMacEncapsulation 17](#_Toc70337333)

[3.5 PtpSourceDataset 18](#_Toc70337334)

[3.6 PtpTransparentClockDefaultDataset 21](#_Toc70337335)

[3.7 PtpUdpEncapsulation 21](#_Toc70337336)

[4 Enumeration Types 22](#_Toc70337337)

[4.1 BitsType 22](#_Toc70337338)

[4.2 ClockQualityLevel 22](#_Toc70337339)

[4.3 IpProtocolType 22](#_Toc70337340)

[4.4 PacketFreqSyncProfiles 23](#_Toc70337341)

[4.5 PacketFreqSyncProfilesEnabler 23](#_Toc70337342)

[4.6 PtpClockStep 23](#_Toc70337343)

[4.7 PtpDeviceType 23](#_Toc70337344)

[4.8 PtpPortState 23](#_Toc70337345)

[4.9 PtpProfiles 24](#_Toc70337346)

[4.10 RunMode 24](#_Toc70337347)

[4.11 SsmModeType 24](#_Toc70337348)

[4.12 SwitchType 24](#_Toc70337349)

[4.13 TimeSyncProfiles 24](#_Toc70337350)

[4.14 TimeSyncProfilesEnabler 25](#_Toc70337351)

[5 Primitive Types 25](#_Toc70337352)



# Classes

## 1PpsPlusTod\_Pac

Applied stereotypes:

* Experimental
* OpenModelClass
* support: MANDATORY

Attributes for 1PpsPlusTod\_Pac

Table 1: Attributes for 1PpsPlusTod\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| externalTimePortStatus | Boolean./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Indicate whether this external time port is used as an input or output port. |
| externalTimePortDataset | ExternalTimePortDataset./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The status dataset of this port |
| PtpAsymmetryCorrection | Integer./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The delay compensation value of this external port. |

## ClockSpec

Applied stereotypes:

* Experimental
* OpenModelClass
* support: MANDATORY

Attributes for ClockSpec

Table 1: Attributes for ClockSpec

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_ptpSync\_Pac | PtpSync\_Pac./. | 0..1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental |  See referenced class |
| \_phyLayerFrequencySync\_Pac | PhysicalLayerFrequencySync\_Pac./. | 0..1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental |  See referenced class |

## NeSync\_Pac

Sync spec for sync capability and status of NE.

Applied stereotypes:

* Experimental
* OpenModelClass
* support: MANDATORY

Attributes for NeSync\_Pac

Table 1: Attributes for NeSync\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| packetFreqSyncSupportEnabledAndProfileSelector | PacketFreqSyncProfilesEnabler./. | 1 | R | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Allows which packet frequency sync functions to be enabled |
| syncSupportPacketFreq | PacketFreqSyncProfiles./. | 0..\* | R | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Indicate whether the NE has the capability to support packet frequency synchronization. and which frequency profile to support. |
| timeSyncSupportEnabledAndProfileSelector | TimeSyncProfilesEnabler./. | 1 | R | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Allows which time sync profiles to be enabled |
| syncSupportTime | TimeSyncProfiles./. | 0..\* | R | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Indicate whether the NE has the capability to support time synchronization and which time profile to support. |
| syncSupportPhysicalFreq | Boolean./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental |  |

## PhysicalLayerFrequencySync\_Pac

Conditional package for Frequency Sync Clock

Applied stereotypes:

* Experimental
* OpenModelClass
* support: MANDATORY

Attributes for PhysicalLayerFrequencySync\_Pac

Table 1: Attributes for PhysicalLayerFrequencySync\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| internalClockSsm | ClockQualityLevel./. | 1 | R | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The quality level of internal clock of the NE. |

## PtpDomainConstraint\_Pac

Applied stereotypes:

* Experimental
* OpenModelClass
* support: MANDATORY

Attributes for PtpDomainConstraint\_Pac

Table 1: Attributes for PtpDomainConstraint\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| masterClock | IeeeEui64./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORY | The ID of the grandmaster clock in the PTP domain. |
| ptpDomainNumber | Integer./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORY | The PTP Domain Number |
| ptpProfileSupported | PtpProfiles./. | 0..\* | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORY | The PTP profile the PTP domain supports. |
| activeProfile | PtpProfiles./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORY | The current active PTP profile in the supported PTP profile list. |

## PtpSync\_Pac

Conditional package for Time Sync Clock

Applied stereotypes:

* Experimental
* OpenModelClass
* support: MANDATORY

Attributes for PtpSync\_Pac

Table 1: Attributes for PtpSync\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| ptpDomainNumber | Integer./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The PTP domain number of the NE. |
| ptpDeviceType | PtpDeviceType./. | 1 | R | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Three PTP device types are included: boundary clock (BC), transparent clock (TC), and ordinary clock (OC). |
| ptpSlaveOnly | Boolean./. | 1 | R | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Indicate whether the NE can only be used as PTP slave or not. |
| ptpSourceDataset | PtpSourceDataset./. | 1 | R | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The PTP status dataset of current tracing source:. |
| ptpDefaultDataset | PtpDefaultDataset./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The PTP status dataset of internal clock of the NE |
| ptpClockIdentity | IeeeEui64./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Identifier of the "physical" clock |
| ptpProfilesSupported | PtpProfiles./. | 0..\* | R | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The PTP profiles that the clock supports |
| activeProfile | PtpProfiles./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The profile currently in use: Must be in the list of supported profiles |
| ptpTransparentClockDefaultDataset | PtpTransparentClockDefaultDataset./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental |  |

## Ptp\_Pac

Applied stereotypes:

* Experimental
* OpenModelClass
* support: MANDATORY

Attributes for Ptp\_Pac

Table 1: Attributes for Ptp\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| ptpPortEnableStatus | Boolean./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Indicate whether to enable this PTP port or not. |
| ptpPortState | PtpPortState./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The current PTP state of the PTP port, such as master, slave, passive, initializing, listening, premaster, uncalibrated, and faulty. |
| ptpAsymmetryCorrection | Integer./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The asymmetry correction value of this PTP port. |
| ptpTwoStepFlag | PtpClockStep./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Indicate whether one-step or two-step mechanism is adopted. |
| ptpUdpEgressConfiguration | PtpUdpEncapsulation./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The configuration of PTP UDP encapsulation, including destination IP address and IPv4/IPv6 protocol. |
| ptpMacEgressConfiguration | PtpMacEncapsulation./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The configuration of PTP MAC encapsulation, including destination MAC address and VLAN configuration. |
| ptpAnnounceInterval | Integer./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The sending interval of PTP announce message. |
| ptpAnnounceReceiptTimeout | Integer./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | It is used for fault detection of PTP announce messages. |
| ptpSyncInterval | Integer./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The sending interval of PTP Sync message. |
| ptpMinDelayReqInterval | Integer./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The sending interval of PTP Delay\_req message. |
| ptpLocalPriority | Integer./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The priority for the local clocks. |
| ptpMasterOnly | Boolean./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORY | The per-port attribute masterOnly |
| ptpLocalPriority | Integer./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORY | The per-port attribute localPriority |

## SsmExternalClock\_Pac

Applied stereotypes:

* Experimental
* OpenModelClass
* support: MANDATORY

Attributes for SsmExternalClock\_Pac

Table 1: Attributes for SsmExternalClock\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| externalPortEnableStatus | Boolean./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Indicate whether to enable this external port or not. |
| bitsType | BitsType./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The type of this port, such as 2048kb/s or 2048kHz. |
| ssmSa-bit | Integer./. | 0..\* | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Indicate which sa-bit bits are used for carrying input and output SSM quality levels. The port should have sa-bit bits for input and output respectively. |
| ssmOutThreshold | ClockQualityLevel./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The external port stops transmitting when the SSM quality level is lower than the threshold. |
| ssmInformation | ClockQualityLevel./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Current input and output SSM quality levels used by the port. The port should have SSM quality levels for input and output respectively. |
| ssmMode | SsmModeType./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Indicate whether to use manual or automatic input and output SSM quality levels. SSM mode should be set for input and output respectively. |
| ssmConfigurationValue | ClockQualityLevel./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The input and output SSM quality levels set manually. The SSM quality levels should be manually configurable for input and output respectively. |

## SsmInBand\_Pac

Applied stereotypes:

* Experimental
* OpenModelClass
* support: MANDATORY

Attributes for SsmInBand\_Pac

Table 1: Attributes for SsmInBand\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| ssmOutputEnableStatus | Boolean./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Indicate whether to send SSM messages or not. |
| ssmInformation | ClockQualityLevel./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Current input and output SSM quality levels used by the port. The SSM quality level can be set manually or automatically. The port should have SSM quality levels for input and output respectively. |
| ssmMode | SsmModeType./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Indicate whether to use manual or automatic input and output SSM quality levels. SSM mode should be set for input and output respectively. |
| ssmConfigurationValue | ClockQualityLevel./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The input and output SSM quality levels set manually. The SSM quality levels should be manually configurable for input and output respectively. |

## SyncCdSpec

Used to specify the ConstraintDomain when the ConstraintDomain represent an NE or PTP domain.

Applied stereotypes:

* Experimental
* OpenModelClass
* support: MANDATORY

Attributes for SyncCdSpec

Table 1: Attributes for SyncCdSpec

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_neSync\_Pac | NeSync\_Pac./. | 0..1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORY |  See referenced class |
| \_ptpDomain\_Pac | PtpDomainConstraint\_Pac./. | 0..1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORY |  See referenced class |

## SyncLpSpec

Applied stereotypes:

* Experimental
* OpenModelClass
* support: MANDATORY

Attributes for SyncLpSpec

Table 1: Attributes for SyncLpSpec

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_1PpsPlusTod\_pac | 1PpsPlusTod\_Pac./. | 0..1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental |  See referenced class |
| \_ptpInBandPac | Ptp\_Pac./. | 0..1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental |  See referenced class |
| \_ssmExternalClock\_Pac | SsmExternalClock\_Pac./. | 0..1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental |  See referenced class |
| \_ssmInBand\_Pac | SsmInBand\_Pac./. | 0..1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental |  See referenced class |

## SyncProtectionSpec

Sync protection schema parameters spec for ControlParameter\_Pac of C&SC

Applied stereotypes:

* Experimental
* OpenModelClass
* support: MANDATORY

Attributes for SyncProtectionSpec

Table 1: Attributes for SyncProtectionSpec

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_currentSourcePort | ./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The ID of the port traced by the system clock currently. |
| systemClockSourcePriorityList | invalid./. | 0..\* | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The list is used to select clock port. It is composed of clock port IDs in the order of priorities. |
| switchType | SwitchType./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Three switch types are included: lockout, manual switch, and forced switch. |
| SsmEnableStatus | Boolean./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | In automatic reference selection process, if SSM is enabled, the selection of clock source is performed based on SSM and priority; otherwise the selection depends on priority only. |
| UnkStatus | Boolean./. | 1 | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | Indicate whether to take UNK as one of the SSM quality levels or not. If UNK is enabled, its level lies between PRC and SSU\_T; otherwise it is taken as DNU. |
| externalClockSourcePriorityList | invalid./. | 0..\* | RW | OpenModelAttribute• partOfObjectKey: 0• isInvariant: false• valueRange: no range constraint• unit: no unit defined• support: MANDATORYExperimental | The list is used to select output clock source for this external clock port. It is composed of IDs of system clock and in-band clock ports [Why two? Clock or LTP?]in the order of priorities. |

# Data Types

## ExternalTimePortDataset

Applied Stereotypes:

Attributes for ExternalTimePortDataset

Table 1: Attributes for ExternalTimePortDataset

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_grandMasterIdentity | invalid./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| priority1 | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| priority2 | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| clockClass | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| accuracy | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| offsetScaledLogVariance | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| timeSource | IeeeEui64./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| stepsRemoved | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| currentUtcOffset | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |

## IeeeEui64

Applied Stereotypes:

## PtpDefaultDataset

Applied Stereotypes:

Attributes for PtpDefaultDataset

Table 1: Attributes for PtpDefaultDataset

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_clock | invalid./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| priority1 | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| priority2 | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| clockClass | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| accuracy | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| offsetScaledLogVariance | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| timeSource | IeeeEui64./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| stepsRemoved | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| 1588ProtocolVersion | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| localPriority | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |

## PtpMacEncapsulation

Applied Stereotypes:

Attributes for PtpMacEncapsulation

Table 1: Attributes for PtpMacEncapsulation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| destinationMacAddress | String./. | 1 | R | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| vlanConfiguration | String./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |

## PtpSourceDataset

Applied Stereotypes:

Attributes for PtpSourceDataset

Table 1: Attributes for PtpSourceDataset

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_grandMasterIdentity | invalid./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| \_parentClock | invalid./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| priority1 | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| priority2 | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| clockClass | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| clockAccuracy | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| offsetScaledLogVariance | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| timeSource | IeeeEui64./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| stepsRemoved | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| currentUtcOffset | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| ptpTimeScale | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| timeTraceable | Boolean./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| frequencyTraceable | Boolean./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| 1588ProtocolVersion | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| currentAbsoluteTime | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| isMasterOnly | Boolean./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 | The masterOnly is TRUE, the port is never placed in the SLAVE state. |
| localPriority | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 | The local priority for the port and this is used as a tie-breaker in the data set comparison algorithm. |
| isSf | Boolean./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 | Indicate whether the clock generate a state decision event by a PTSF or not. |

## PtpTransparentClockDefaultDataset

Applied Stereotypes:

Attributes for PtpTransparentClockDefaultDataset

Table 1: Attributes for PtpTransparentClockDefaultDataset

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| primaryDomain | Integer./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |

## PtpUdpEncapsulation

Applied Stereotypes:

Attributes for PtpUdpEncapsulation

Table 1: Attributes for PtpUdpEncapsulation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| destinationIpAddress | String./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |
| ipProtocolType | IpProtocolType./. | 1 | RW | OpenModelAttribute* partOfObjectKey: 0
* isInvariant: false
* valueRange: no range constraint
* unit: no unit defined
* support: MANDATORY
 |  |

# Enumeration Types

## BitsType

Contains Enumeration Literals:

* KBPS:
* KHZ:

## ClockQualityLevel

Use the clock quality levels listed in section 5.4.1 of G.781 (08/2017). The corresponding SSM codes and enhanced SSM codes for SyncE refer to table 11-7 and table 11-8 of G.8264 (08/2017)

Contains Enumeration Literals:

* QL\_PRC:
* QL\_SSU\_A:
* QL\_SSU\_B:
* QL\_EEC1:
* QL\_DNU:
* QL\_PRTC:
* QL\_ePRTC:
* QL\_eEEC:
* QL\_PRS:
* QL\_STU:
* QL\_ST2:
* QL\_TNC:
* QL\_ST3E:
* QL\_ST3:
* QL\_EEC2:
* QL\_PROV:
* QL\_DUS:

## IpProtocolType

Contains Enumeration Literals:

* IPV4:
* IPV6:

## PacketFreqSyncProfiles

Contains Enumeration Literals:

* G.8265.1:
* G.8275.2:

## PacketFreqSyncProfilesEnabler

Contains Enumeration Literals:

* ENABLE\_G.8265.1:
* ENABLE\_G.8275.2:
* DISABLE:

## PtpClockStep

Contains Enumeration Literals:

* ONE\_STEP:
* TWO\_STEP:

## PtpDeviceType

Contains Enumeration Literals:

* BOUNDARY\_CLOCK:
* TRANSPARENT\_CLOCK:
* ORDINARY\_CLOCK:

## PtpPortState

Contains Enumeration Literals:

* MASTER:
* SLAVE:
* PASSIVE:
* INITIALIZING:
* LISTENING:
* PREMASTER:
* UNCALIBRATED:
* FAULTY:

## PtpProfiles

Contains Enumeration Literals:

* G.8265.1:
* G.8275.1:
* G.8275.2:

## RunMode

Contains Enumeration Literals:

* FREE\_RUN:
* LOCKED:
* HOLD\_OVER:

## SsmModeType

Contains Enumeration Literals:

* MANUAL:
* AUTOMATIC:

## SwitchType

Contains Enumeration Literals:

* LOCK\_OUT:

## TimeSyncProfiles

Contains Enumeration Literals:

* G.8275.1:
* G.8275.2:

## TimeSyncProfilesEnabler

Contains Enumeration Literals:

* ENABLE\_G.8275.1:
* ENABLE\_G.8275.2:
* DISABLE:

# Primitive Types