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# Classes

## ConnectorSpec

Applied stereotypes:

* OpenInterfaceModelClass
* objectCreationNotification: NO
* objectDeletionNotification: NO
* OpenModelClass
* support: MANDATORY

Attributes for ConnectorSpec

Table 1: Attributes for ConnectorSpec

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_connector\_Pac | Connector\_Pac  ./. | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |

## Connector\_Pac

Applied stereotypes:

* OpenInterfaceModelClass
* objectCreationNotification: NO
* objectDeletionNotification: NO
* OpenModelClass
* support: MANDATORY

Attributes for Connector\_Pac

Table 1: Attributes for Connector\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| connectorKind | ConnectorKindType  NOT\_YET\_DEFINED | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Kind of physical connector as available at the outside of the device. |
| outsideLabel | String  Label of the position not yet defined. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | String, which is identifying the physical position of a connector (e.g. RJ45 connector, SFP, IF port) at the outside of the device. |
| sequenceId | Integer  -1 | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_16\_BIT | All instances of Connector in the Equipment::connector attribute shall be identifiable by a locally unique 'sequenceId'. The 'sequenceId' should be unique for the list of Connector objects of the Equipment object. Gaps in the sequence would be legal. |

## ControlConstructSpec

Applied stereotypes:

* OpenInterfaceModelClass
* objectCreationNotification: NO
* objectDeletionNotification: NO
* OpenModelClass
* support: MANDATORY

Attributes for ControlConstructSpec

Table 1: Attributes for ControlConstructSpec

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_controlConstruct\_Pac | ControlConstruct\_Pac  ./. | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |
| \_protocolCollection | ProtocolCollection  ./. | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |

## ControlConstruct\_Pac

Applied stereotypes:

* OpenInterfaceModelClass
* objectCreationNotification: NO
* objectDeletionNotification: NO
* OpenModelClass
* support: MANDATORY

Attributes for ControlConstruct\_Pac

Table 1: Attributes for ControlConstruct\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| externalLabel | String  External label not yet defined. | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA | The externalLabel attribute is for the operator to persistently store an identifier from his documentation inside the device. |
| lastConfigChangeTimestamp | DateTime  2010-11-20T14:00:00+01:00 | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | This attribute reports the timestamp of the last configuration-change. Configuration changes are AttributeValueChanges, ObjectDeletions and ObjectCreations. |

## HolderSpec

Applied stereotypes:

* OpenInterfaceModelClass
* objectCreationNotification: NO
* objectDeletionNotification: NO
* OpenModelClass
* support: MANDATORY

Attributes for HolderSpec

Table 1: Attributes for HolderSpec

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_holder\_Pac | Holder\_Pac  ./. | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |

## Holder\_Pac

Applied stereotypes:

* OpenInterfaceModelClass
* objectCreationNotification: NO
* objectDeletionNotification: NO
* OpenModelClass
* support: MANDATORY

Attributes for Holder\_Pac

Table 1: Attributes for Holder\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| vendorLabel | String  Vendor label not yet defined. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Identifier of the holder according to the currently valid, official documentation of the equipment. |
| outsideLabel | String  Label of the position not yet defined. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Label, which is printed at the outside of the device for identifying the physical position e.g. of a board inside the device. |
| sequenceId | Integer  -1 | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_16\_BIT | All instances of Holder in the Equipment::containedHolder attribute shall be identifiable by a unique 'sequenceId'. The 'sequenceId' should be unique for the list of Holder objects of the Equipment object. Gaps in the sequence would be legal. |

## Protocol

Attachment point for technology specific attributes of protocols as LLDP and similar.

Applied stereotypes:

* OpenInterfaceModelClass
* objectCreationNotification: NO
* objectDeletionNotification: NO
* OpenModelClass
* support: MANDATORY

Attributes for Protocol

Table 1: Attributes for Protocol

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| protocolName | ProtocolNameType  NOT\_YET\_DEFINED | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA |  |

## ProtocolCollection

List of protocols such as LLDP and similar.

Applied stereotypes:

* OpenInterfaceModelClass
* objectCreationNotification: NO
* objectDeletionNotification: NO
* OpenModelClass
* support: MANDATORY

Attributes for ProtocolCollection

Table 1: Attributes for ProtocolCollection

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_protocol | Protocol  ./. | 0..\* | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |

# Data Types

## InstanceIdentifier

To be translated into the YANG built in datatype instance-identifier.

Applied Stereotypes:

# Enumeration Types

## ConnectorKindType

If required, this identity shall be referenced as a base identity for identities representing individual connector types as they are supported by the individual device. The additional identities referencing the CONNECTOR\_KIND\_TYPE shall be provided by vendors in a separate YANG module.

Contains Enumeration Literals:

* SC:
  + Subscriber Connector
* FIBRE\_CHANNEL\_STYLE\_1:
  + Copper connector
* FIBRE\_CHANNEL\_STYLE\_2:
  + Copper connector
* BNC:
  + Bayonet/Threaded Neill-Concelman
* FC:
  + Fibre Channel coax headers
* FIBER\_JACK:
* LC:
  + Lucent Connector
* MT\_RJ:
  + Mechanical Transfer - Registered Jack
* MU:
  + Multiple Optical
* SG:
* OPTICAL\_PIGTAIL:
* MPO1x12:
  + Multifiber Parallel Optic
* MPO2x16:
  + Multifiber Parallel Optic
* HSSDC\_II:
  + High Speed Serial Data Connector
* COPPER\_PIGTAIL:
* RJ45:
  + 8P8C, according to Clause 3 and Figures 1 through 5 of IEC 60603-7
* NO\_SEPERABLE\_CONNECTOR:
* MXC2x16:
* ST:
  + according to IEC 60874-10:1992, also often called BFOC/2.5
* SMA:
* N:
* DIN\_1.0\_2.3:
* SCSI\_50\_PIN\_1.27MM\_PITCH:
* SCSI\_FEMALE\_68\_PIN:
* D\_SUB\_FEMALE\_15\_PIN:
* RS-422:
* RS-232:
* RS-485:
* MDR68:
* TNC:
* FLANGE:
* NOT\_YET\_DEFINED:

## EquipmentCategory

Contains Enumeration Literals:

* BACKPLANE:
  + This identity is applicable if the hardware class is some sort of device for aggregating and forwarding networking traffic, such as a shared backplane in a modular ethernet switch. Note that an implementation may model a backplane as a single physical component, which is actually implemented as multiple discrete physical components (within a chassis or stack).
* POWER\_UNIT:
  + This identity is applicable if the hardware class is a power-supplying component.
* BATTERY:
  + This identity is applicable if the hardware class is some sort of battery.
* FAN:
  + This identity is applicable if the hardware class is a fan or other heat-reduction component.
* CENTRAL\_PROCESSING\_UNIT:
  + This identity is applicable if the hardware class is some sort of central processing unit.
* STORAGE\_DRIVE:
  + This identity is applicable if the hardware class is some sort of component with data storage capability as its main functionality, e.g., hard disk drive (HDD), solid-state device (SSD), solid-state hybrid drive (SSHD), object storage device (OSD), or other.
* SENSOR:
  + This identity is applicable if the hardware class is some sort of sensor, such as a temperature sensor within a router chassis.
* MODEM:
  + Modulator-demodulator for converting digital data into analog signals for transmission and vice versa.
* PORT\_EXPANSION\_BOARD:
  + A port expansion board is an add-on hardware component that increases the number of available physical connectors and logical interfaces.
* OUTDOOR\_UNIT:
  + Externally mounted hardware component that contains a radio frequency (RF) transceiver. The outdoor unit communicates with the indoor unit (IDU) via an IF interface.
* FULL\_OUTDOOR\_UNIT:
  + Device that contains at least one pair of modem and radio frequency (RF) transceiver and might also contain switching functionality. The full outdoor unit provides payload interfaces (e.g. according to IEEE 802.3) for communicating with diverse kinds of devices.
* NOT\_YET\_DEFINED:

## ProtocolNameType

List of Protocol names.

Contains Enumeration Literals:

* NOT\_YET\_DEFINED:

## RestartType

Contains Enumeration Literals:

* COLD:
  + Service affecting restart of the device or component.
* WARM:
  + Non-service affecting restart of the device or component.