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# Classes

## CurrentProblem

Applied stereotypes:

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

Attributes for CurrentProblem

Table 1: Attributes for CurrentProblem

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| sequenceNumber | Integer  ./. | 1 | R | OpenModelAttribute  • partOfObjectKey: 1  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_16\_BIT | Unique sequence number of the current problem object. |
| timestamp | DateTime  2010-11-20T14:00:00+01:00 | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA |  |
| problemSeverity | SeverityType  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 | Severity of the alarm. |

## VlanFdCapability

Applied stereotypes:

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

Attributes for VlanFdCapability

Table 1: Attributes for VlanFdCapability

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| supportedSubLayerProtocolNameList | SubLayerProtocolNameType  NOT\_YET\_DEFINED | 0..\* | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Lists the supported kinds of Components. |
| componentId | Integer  ./. | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_32\_BIT | Unique identifier for a particular Bridge component within the system. Name in ieee802-dot1q-bridge.yang: id. |
| extendedFilteringIsAvail | Boolean  false | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | true = Component can perform filtering on individual multicast addresses controlled by MMRP (Multiple MAC Registration Protocol). Name in ieee802-dot1q-bridge.yang: extended-filtering. |
| trafficClassesIsAvail | Boolean  false | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | true = Component can map the Priority values into multiple traffic classes (there is more than one traffic class at the device). Name in ieee802-dot1q-bridge.yang: traffic-classes. |
| staticEntriesOnIndividualPortsIsAvail | Boolean  false | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | true = Static entries per port are available. Name in ieee802-dot1q-bridge.yang: static-entry-individual-port. |
| independentVlanLearningIsAvail | Boolean  false | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | true = Component supports Independent VLAN Learning (IVL). Name in ieee802-dot1q-bridge.yang: ivl-capable. |
| sharedVlanLearningIsAvail | Boolean  false | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | true = Component supports Shared VLAN Learning (SVL). Name in ieee802-dot1q-bridge.yang: svl-capable. |
| hybridVlanLearningIsAvail | Boolean  false | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | true = Component supports both Independent and Shared VLAN Learning simultaneously. Name in ieee802-dot1q-bridge.yang: hybrid-capable. |
| configurablePortVlanIdTaggingIsAvail | Boolean  false | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | true = Component supports setting the egress status (VLAN-tagged or Untagged) on each port. Name in ieee802-dot1q-bridge.yang: configurable-pvid-tagging. |
| multipleLocalBridgesIsAvail | Boolean  false | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | true = Can support multiple local Bridges, outside the scope of 802.1Q defined VLANs. Name in ieee802-dot1q-bridge.yang: local-vlan-capable. |
| supportedVersion | Integer  -1 | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_16\_BIT | The version number supported. Name in ieee802-dot1q-bridge.yang: version. |
| maximumNumberOfVlanIds | Integer  -1 | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_16\_BIT | The maximum number of VLAN IDs supported. Name in ieee802-dot1q-bridge.yang: max-vids. |
| overridingDefaultPortVlanIdIsAvail | Boolean  false | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | true = Component supports overridding the default PVID on each port. Name in ieee802-dot1q-bridge.yang: override-default-pvid. |
| protocolFrameFormat | ProtocolFrameFormatType  ./. | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Only effective if (portAndProtocolBasedVlanIsAvail==true). The data-link encapsulation format or the detagged\_frame\_type in a Protocol Template. Name in ieee802-dot1q-bridge.yang: protocol-template. |
| maximumNumberOfMsti | Integer  -1 | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_16\_BIT | Maximum number of Multiple Spanning Tree Instances (MSTIs) supported within an MST region (i.e., the number of spanning tree instances that can be supported in addition to the CIST), for MST Bridges. For SST Bridges, this parameter may be either omitted or reported as 0. Name in ieee802-dot1q-bridge.yang: max-msti. |
| adminShutDownIsAvail | Boolean  false | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | true = Manual switching on and off of the forwarding domain without deleting it (underlying OSI network layers are also not affected) is available. |
| maintenanceTimerRange | String  Range of the maintenance timer 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 | Available time periods for maintenance configurations to be described. Concrete values shall be separated by commas (e.g. '10, 60, 360'). Ranges shall be expressed as two values separated by a minus (e.g. '10-360'). |
| supportedAlarmList | String  Supported Alarms Not Yet Defined | 0..\* | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Available alarms to be listed. |

## VlanFdConfiguration

Applied stereotypes:

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

Attributes for VlanFdConfiguration

Table 1: Attributes for VlanFdConfiguration

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| fdName | String  Forwarding Domain name not yet defined. | 1 | RW | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA | The name of the Component. Free text field to be filled by the operator. Name in ieee802-dot1q-bridge.yang: name. |
| fdIsOn | Boolean  false | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA | Only effective if (adminShutDownIsAvail==true). true = Activation of the Component. false = De-activation of the forwarding domain without deleting it (underlying OSI network layers are not affected). |
| subLayerProtocolName | SubLayerProtocolNameType  NOT\_YET\_DEFINED | 1 | RW | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA | The type of Component used to classify a particular Bridge component within a Bridge system comprising multiple components. Name in ieee802-dot1q-bridge.yang: type. |
| macAddress | MacAddress  00:00:00:00:00:00 | 1 | RW | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA | Unique EUI-48 Universally Administered MAC address configured on a Bridge Component. Name in ieee802-dot1q-bridge.yang: address. |
| trafficClassesIsOn | Boolean  false | 1 | RW | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA | Only effective if (trafficClassesIsAvail==true). true = Traffic Classes are enabled on this Bridge Component. false = Bridge Component operates with a single priority level for all traffic. Name in ieee802-dot1q-bridge.yang: traffic-class-enabled. |
| protocolGroupList | protocolGroupType  ./. | 0..\* | RW | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA | Only effective if (portAndProtocolBasedVlanIsAvail==true). List of the protocol group database entries. Name in ieee802-dot1q-bridge.yang: protocol-group-database. |
| maintenanceTimer | Integer  -1 | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: s  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: LENGTH\_32\_BIT | Time of existence of any maintenance configuration. 0 = maintenance timer is switched off. Valid values are defined in \*Capability::maintenanceTimerRange. |
| problemKindSeverityList | ProblemKindSeverityType  ./. | 0..\* | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA | Severity of each entry of the SupportedAlarmList to be configured. |

## VlanFdCurrentProblems

Applied stereotypes:

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

Attributes for VlanFdCurrentProblems

Table 1: Attributes for VlanFdCurrentProblems

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| currentProblemList | VlanFdCurrentProblemType  ./. | 0..\* | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA |  |

## VlanFdSpec

The set of components associated with a given Bridge. For example, - A TPMR is associated with a single VLAN unaware component. - A Customer VLAN Bridge is associated with a single VLAN aware component. - A Provider Bridge is associated with a single S-VLAN component and zero or more C-VLAN components. Name in ieee802-dot1q-bridge.yang: component.

Applied stereotypes:

* OpenModelClass
* support: MANDATORY
* OpenInterfaceModelClass
* objectCreationNotification: YES
* objectDeletionNotification: YES

Attributes for VlanFdSpec

Table 1: Attributes for VlanFdSpec

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_vlanFd\_Pac | VlanFd\_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 |

## VlanFdStatus

Applied stereotypes:

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

Attributes for VlanFdStatus

Table 1: Attributes for VlanFdStatus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| macAddressCur | MacAddress  00:00:00:00:00:00 | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Unique EUI-48 Universally Administered MAC address assigned to a Bridge Component. Name in ieee802-dot1q-bridge.yang: address. |
| numberOfPortsCur | Integer  -1 | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: LENGTH\_16\_BIT | Number of Bridge Ports associated with the Bridge Component. Values between 1 and 4095. Name in ieee802-dot1q-bridge.yang: ports. |
| numberOfStaticVlanRegistrationsCur | Integer  -1 | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: LENGTH\_32\_BIT | The number of Static VLAN Registration entries currently in the FDB. Name in ieee802-dot1q-bridge.yang: static-vlan-registration-entries. |
| numberOfDynamicVlanRegistrationsCur | Integer  -1 | 1 | R | Reference  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: LENGTH\_32\_BIT | The number of Dynamic VLAN Registration entries currently in the FDB. Name in ieee802-dot1q-bridge.yang: static-vlan-registration-entries. |
| fdStatus | FdStatusType  NOT\_YET\_DEFINED | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA | Operational status of the forwarding domain. |

## VlanFd\_Pac

Applied stereotypes:

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

Attributes for VlanFd\_Pac

Table 1: Attributes for VlanFd\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_vlanFdCapability | VlanFdCapability  ./. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |
| \_vlanFdConfiguration | VlanFdConfiguration  ./. | 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 |
| \_vlanFdStatus | VlanFdStatus  ./. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |
| \_vlanFdCurrentProblems | VlanFdCurrentProblems  ./. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |

# Data Types

## ProblemKindSeverityType

Applied Stereotypes:

Attributes for ProblemKindSeverityType

Table 1: Attributes for ProblemKindSeverityType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| problemKindName | String  ./. | 1 | RW | OpenModelAttribute   * partOfObjectKey: 1 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA | Name of the alarm according to SupportedAlarmList |
| problemKindSeverity | SeverityType  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 | Severity of this type of alarm. |

## VlanFdCurrentProblemType

Applied Stereotypes:

Attributes for VlanFdCurrentProblemType

Table 1: Attributes for VlanFdCurrentProblemType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| problemName | String  Problem name not specified. | 1 | R | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA | Name of the alarm according to SupportedAlarmList |

## protocolGroupType

Applied Stereotypes:

Attributes for protocolGroupType

Table 1: Attributes for protocolGroupType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| dbIndex | Integer  ./. | 1 | RW | OpenModelAttribute   * partOfObjectKey: 1 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_16\_BIT | The protocol group database index. Name in ieee802-dot1q-bridge.yang: db-index. |
| protocolGroupId | Integer  -1 | 1 | RW | Reference  OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT | Designates a group of protocols in the Protocol Group Database. Name in ieee802-dot1q-bridge.yang: group-id. |
| protocolFrameFormat | ProtocolFrameFormatType  NOT\_YET\_DEFINED | 1 | RW | Reference  OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: YES * bitLength: NA | The data-link encapsulation format or the detagged\_frame\_type in a Protocol Template. Name in ieee802-dot1q-bridge.yang: frame-format-type. |
| ethertype | String  Ethertype not yet defined. | 1 | RW | Reference  OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: YES * bitLength: NA | ethertype. Only relevant if (protocolFrameFormat==ETHERNET) OR (protocolFrameFormat==RFC1042) OR (protocolFrameFormat==SNAP8021H). Format containing the 16-bit IEEE 802 EtherType field. The EtherType value represented in the canonical order defined by IEEE 802. The canonical representation uses uppercase characters. Pattern '[0-9a-fA-F]{2}-[0-9a-fA-F]{2}'. Name in ieee802-dot1q-bridge.yang: ethertype. |
| protocolId | String  Protocol ID not yet defined. | 1 | RW | Reference  OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: YES * bitLength: NA | Only effective if (protocolFrameFormat==SNAP\_OTHER). Format containing the 40-bit protocol identifier (PID). The canonical representation uses uppercase characters. Pattern '[0-9a-fA-F]{2}(-[0-9a-fA-F]{2}){4}'. Name in ieee802-dot1q-bridge.yang: protocol-id. |
| llcAddress | String  LLC Address not yet defined. | 0..\* | RW | Reference  OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: YES * bitLength: NA | Only effective if (protocolFrameFormat==LLC\_OTHER). A pair of ISO/IEC 8802-2 DSAP and SSAP address field values, for matching frame formats of LLC\_Other. The canonical representation uses uppercase characters. Pattern '[0-9a-fA-F]{2}-[0-9a-fA-F]{2}'. Name in ieee802-dot1q-bridge.yang: llc-address. |

# Enumeration Types

## FdStatusType

Current Status of the Forwarding Domain

Contains Enumeration Literals:

* UP:
  + Ready to pass packets.
* DOWN:
  + The interface does not pass any packets.
* TESTING:
  + In some test mode. No operational packets can be passed.
* UNKNOWN:
  + Status cannot be determined for some reason.
* DORMANT:
  + Waiting for some external event.
* NOT\_PRESENT:
  + Some component (typically hardware) is missing.
* LOWER\_LAYER\_DOWN:
  + Down due to state of lower-layer interface(s).
* ADMIN\_DOWN:
  + Down due to configuration.
* NOT\_YET\_DEFINED:

## LayerProtocolNameType

A controlled list of LayerProtocol names.

Contains Enumeration Literals:

* LAYER\_PROTOCOL\_NAME\_TYPE\_VLAN\_LAYER:

## ProtocolFrameFormatType

A value representing the frame format to be matched. Name in ieee802-dot1q-bridge.yang: protocol-frame-format-type.

Contains Enumeration Literals:

* ETHERNET:
  + Ethernet frame format. Name in ieee802-dot1q-bridge.yang: Ethernet.
* RFC1042:
  + RFC 1042 frame format. Name in ieee802-dot1q-bridge.yang: rfc1042.
* SNAP8021H :
  + SNAP 802.1H frame format. Name in ieee802-dot1q-bridge.yang: snap8021H.
* SNAP\_OTHER:
  + Other SNAP frame format. Name in ieee802-dot1q-bridge.yang: snapOther.
* LLC\_OTHER:
  + Other LLC frame format. Name in ieee802-dot1q-bridge.yang: llcOther.
* NOT\_YET\_DEFINED:

## SeverityType

Contains Enumeration Literals:

* NON\_ALARMED:
* WARNING:
* MINOR:
* MAJOR:
* CRITICAL:
* NOT\_YET\_DEFINED:

## SubLayerProtocolNameType

Represents the type of Component. Name in ieee802-dot1q-bridge.yang: type-of-component.

Contains Enumeration Literals:

* C\_VLAN\_COMPONENT:
  + c-vlan-component. Base identity for a C-VLAN component. Name in ieee802-dot1q-bridge.yang: c-vlan-component.
* S\_VLAN\_COMPONENT:
  + s-vlan-component. Base identity for a S-VLAN component. Name in ieee802-dot1q-bridge.yang: s-vlan-component.
* D\_BRIDGE\_COMPONENT:
  + d-bridge-component. Base identity for a VLAN unaware component. Name in ieee802-dot1q-bridge.yang: d-bridge-component.
* EDGE\_RELAY\_COMPONENT:
  + edge-relay-component. Base identity for an EVB station ER component. Name in ieee802-dot1q-bridge.yang: edge-relay-component.
* NOT\_YET\_DEFINED:

# Primitive Types