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# Classes

## VlanFcCapability

Applied stereotypes:

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

Attributes for VlanFcCapability

Table 1: Attributes for VlanFcCapability

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 (implicitly defines the Ethertypes of the VLAN headers, which can be forwarded). |
| 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 | 1 = Manual switching on and off of the forwarding construct without deleting it (underlying OSI network layers are also not affected) is available. |

## VlanFcConfiguration

Applied stereotypes:

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

Attributes for VlanFcConfiguration

Table 1: Attributes for VlanFcConfiguration

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| fcName | String  Interface name 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  Reference | name. Description of the VLAN, could be a name, could be a number. Free text of up to 32 letters to be filled by the operator. Name in ieee802-dot1q-bridge.yang: name. |
| fcIsOn | 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 relevant if (adminShutDownIsAvail==1). 1 = Activation of the forwarding of frames with this VLAN ID. 0 = De-activation of the ForwardingConstruct without deleting it (underlying OSI network layers are not affected). |
| subLayerProtocolName | SubLayerProtocolNameType  NOT\_YET\_DEFINED | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Type of VLAN (e.g. C-VLAN, S-VLAN), respectively Ethertype, which is forwarded. |
| vlanId | Integer  -1 | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_32\_BIT  Reference | vid. The VLAN ID, which identifies the frames to be forwarded. Range '1..4094 | 4096..4294967295'. Name in ieee802-dot1q-bridge.yang: vid. |

## VlanFcLpSpec

vlan. Represents the VLAN, which is configured on the C-VLAN or S-VLAN Component. Name in ieee802-dot1q-bridge.yang: vlan. Reference: 12.10.2 of IEEE Std 802.1Q-2018.

Applied stereotypes:

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

Attributes for VlanFcLpSpec

Table 1: Attributes for VlanFcLpSpec

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_vlanFc\_Pac | VlanFc\_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 |

## VlanFc\_Pac

Applied stereotypes:

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

Attributes for VlanFc\_Pac

Table 1: Attributes for VlanFc\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_vlanFdCapability | VlanFcCapability  ./. | 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 | VlanFcConfiguration  ./. | 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 |

# Data Types

# Enumeration Types

## LayerProtocolNameType

A controlled list of LayerProtocol names.

Contains Enumeration Literals:

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

## PortRole

Contains Enumeration Literals:

* UNTAGGED\_VLAN\_PORT:
* EGRESS\_VLAN\_PORT:

## PortRole

Contains Enumeration Literals:

* WORKING:
* PROTECTION:
* SYMMETRIC:
* HUB:
* SPOKE:
* LEAF:
* ROOT:

## SubLayerProtocolNameType

type-of-component. 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