VlanPac

## Classes

### IpCurrentProblem

Applied stereotypes:

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

Attributes for IpCurrentProblem

Table 1: Attributes for IpCurrentProblem

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| sequenceNumber | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| timeStamp |  | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| problemSeverity |  | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

### VlanInterfaceCapability

True value indicates the VLAN has multicast enabled. Huawei Yang Model.

Applied stereotypes:

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

Attributes for VlanInterfaceCapability

Table 1: Attributes for VlanInterfaceCapability

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| reservedVlanList | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Provides a list of VLANs that are reserved for internal use and hence unanavailable for user configuration. Attribute from Huawei YANG |
| vlanStatusIsEnable | Boolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Provides the current status of the VLAN. |
| vlanBroadcastIsAvail | Boolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | True value indicates that broadcast is enabled on the VLAN. Huawei Yang Model. |
| vlanUnknowMulticastIsAvail | Boolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| vlanUnknownUnicastIsAvail | Boolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | True value indicates that unknow unicast packets are accepted and broadcasted on the VLAN. Attribute from Huawei Yang model |
| macLearningIsAvail | Boolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | True value indicates that the MAC learning is enabled on a VLAN. Attribute from Huawei Yang Model. |
| macAddressAgingTime | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Value fo Mac Aging time at system startup with respect to a VLAN. Attribute from Huawei YANG Model. |

### VlanInterfaceConfiguration

Applied stereotypes:

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

Attributes for VlanInterfaceConfiguration

Table 1: Attributes for VlanInterfaceConfiguration

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| #vlanDescription | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Meaningful description of a VLAN e.g. \*\*\* VLAN for LTE\_S1 connections to OSN LTE\_S1/X2 \*\*\* |
| #taggedVlanId | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Untagged frames, which are entering the network at this interface, get tagged with this VLAN ID. Frames, which are arriving with this VLAN ID, get untagged before leaving the network. If left on default value, to be interpreted as interface is not an Access Interface. range from 1 to 4095 |
| #switchInterfaceType | SwitchInterfaceType | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | To configure an Interface as Trunk, Access or Hybrid interface. |
| #passedVlanIdList | Integer | 0..\* | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Frames, which are marked with either of the listed VLAN ID, are allowed to pass. Frames with any other VLAN ID get dropped. If no entry in the list, to be interpreted as interface is not a Trunk Interface. if list is empty and InterfaceType is Trunk than all tags are allowed (Tag unaware) |
| #adminShutdownIsOn | Boolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | True value will shutdown the vlan interface. |
| vlanStatisticsIsOn | Boolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Used to turn on L2 Statistics collection for the VLAN. IP Trasport model attribute list 2.60a |
| vlanStatusIsOn | Boolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Should be True to enable a VLAN. Attribute from Huawei YANG model. |

### VlanInterfaceCurrentPerformance

Applied stereotypes:

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

Attributes for VlanInterfaceCurrentPerformance

Table 1: Attributes for VlanInterfaceCurrentPerformance

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| currentPerformanceDataList | VlanInterfaceCurrentPerformanceType | 1..2 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

### VlanInterfaceCurrentProblem

Applied stereotypes:

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

### VlanInterfaceHistoricalPeformance

Applied stereotypes:

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

Attributes for VlanInterfaceHistoricalPeformance

Table 1: Attributes for VlanInterfaceHistoricalPeformance

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| historicalPerformaceData | VlanInterfaceHistoricalPerformanceType | 0..\* | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

### VlanInterfaceStatus

Applied stereotypes:

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

Attributes for VlanInterfaceStatus

Table 1: Attributes for VlanInterfaceStatus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| vlanStatusIsEnable | Boolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Provides the current status of the VLAN. VLAN is by default enabled. Attribute from Huawei YANG model. |
| vlanMemberPorts | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Provides a list of all the ports part of a VLAN. Attribute from Huawei YANG model. |
| vlanBroadCastIsEnable | EBoolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | True value indicates that the VLAN level broadcast is enabled. Attribute from Huawei YANG model. |
| vlanUnknownMulticastIsEnable | Boolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | True value indicates that unknown multicast is enabled across a VLAN. Attribute from Huawei YANG |
| vlanDropUnknownUnicastIsEnable | Boolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | True value indicates unknown unicast packets in the VLAN will be dropped. Attribute from Huawei YANG. |
| reservedVlanListCur | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Provides the current value of the reserved VLAN range that cannot be used for user configuration. Attribute from Huawei Yang model. |
| macAddressAgingTimeCur | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Current Value of the Mac address aging time in the MAC address table with respect to a VLAN. Attribute from Huawei Yang Model |

### VlanInterface\_Pac

Applied stereotypes:

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

Attributes for VlanInterface\_Pac

Table 1: Attributes for VlanInterface\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_vlaninterfacecapability | VlanInterfaceCapability | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| \_vlaninterfaceconfiguration | VlanInterfaceConfiguration | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| \_vlaninterfacestatus | VlanInterfaceStatus | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| \_vlaninterfacecurrentproblem | VlanInterfaceCurrentProblem | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| \_vlaninterfacecurrentperformance | VlanInterfaceCurrentPerformance | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| \_vlaninterfacehistoricalpeformance | VlanInterfaceHistoricalPeformance | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

## Data Types

### IpInterfaceCurrentPerformanceType

Applied Stereotypes:

Attributes for IpInterfaceCurrentPerformanceType

Table 1: Attributes for IpInterfaceCurrentPerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| performanceData | IpInterfacePerformanceType | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

### IpInterfaceCurrentProblemType

Applied Stereotypes:

Attributes for IpInterfaceCurrentProblemType

Table 1: Attributes for IpInterfaceCurrentProblemType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| interfaceId | invalid | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| problemName | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Name of the alarm according to IpInterface::IpInterfaceCapability::supportedAlarms |

### IpInterfaceHistoricalPerformanceType

Applied Stereotypes:

Attributes for IpInterfaceHistoricalPerformanceType

Table 1: Attributes for IpInterfaceHistoricalPerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| performanceData | IpInterfacePerformanceType | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

### IpInterfacePerformanceType

Applied Stereotypes:

Attributes for IpInterfacePerformanceType

Table 1: Attributes for IpInterfacePerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| interfaceId | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Valid Port Number |
| interfaceDescription | String | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Short description of the Interface |
| status | InterfaceStatusType | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| macAddress | String | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Valid MAC address of the Interface |
| switchInterfaceIsOn | Boolean | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | If a port is a switch interface or not |
| l2Mtu | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | L2 Maximum Transmission Unit Size Configured. IP Transport Model Attribute list 02.6a. |
| interfaceIsIp | Boolean | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Interface is enabled for IP configuration. IP Transport Model Attribute List Annexure 02.6a |
| ipAddress | String | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Valid IP address of the Port. IP Transport Model Attribute List Annex 02.6a |
| ipAddressMask | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Network Mask of the IP address. IP Transport Model Attribute List Annexure 02.6a. |
| l3Mtu | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Maximum L3 transmission Unit Size. IP Transport Model Attribute List Annex 02.6a |
| portBandWidth | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Maximum interface bandwdith in Mbps. IP Transport Model Attribute List Annex 02.6a. |
| transceiverType | String | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Type of the transceiver which is one of the values such as electrical, optical or offline. IP Transport Model Attribute List Annex 02.6a. |
| transceiverVendorName | String | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Name of Transceiver Vendor. IP Transport Model attribute List Annex 02.6a. |
| transceiverPartNumber | String | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Transceiver vendor part number. IP Transport Model Attribute list annex 02.6a. |
| transceiverBandwidth | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Maximum transceciver Bandwidth. IP Transport Model Attribute list annex 02.6a. |
| transceiverMode | String | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Describes the mode of operation of the Transceiver. Either single mode or Multimode.IP Transport Model Attribute List Annex 02.6a. |
| transceiverWavelength | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Transceiver wavelenght. IP Transport Model Attribute List Annex 0.26a. |
| transceiverTransmissionDistance | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Transceiver Transmission Distance. IP Transport Model Attribute List Annex 02.6a. |
| transceiverTransmitPower | EFloat | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Transmit power of the Transceiver. IP Transport Model Attribute List 02.6a. |
| TransceiverReceivedPower | EFloat | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Received power of the Transceiver. IP Transport Model Attribute List 02.6a. |
| autoNegotiationIsOn | Boolean | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Indicates that the autonegotiation is enabled on the device. IP Transport Model Attribute List 02.6a. |
| transmissionMode | TransmissionModeType | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | One of transmission modes such as full or half-duplex, the device is configured to work. IP Transport Model Attritbute List 02.6a. |
| receiveFlowControlIsOn | Boolean | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Indicates that the Receive Flow Control as described in IEEE 802.3x is enabled. IP Transport Model Attribute List Annex 02.6a. |
| sendFlowControlIsOn | Boolean | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Indicates that the Send Flow Control feature described in IEEE 802.3x is enabled. IP Transport Model Attribute List Annex 02.6a. |
| last10SecBitInputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Bits input rate over the last 10 second interval. IP Transport Model Attribute list Annex 02.6a |
| last10SecBitOutputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Bits output rate over the last 10 second interval. IP Transport Model Attribute list Annex 02.6a |
| last10SecPacketsInputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Packets input rate over the last 10 second interval. IP Transport Model Attribute list Annex 02.6a |
| last10SecPacketsOutputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Packets output rate over the last 10 second interval. IP Transport Model Attribute list Annex 02.6a |
| inputVolumeBytes | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Input Volume Bytes |
| outputVolumeBytes | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total output Volume bytes |
| unicastPacketsInput | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Unicast packets input |
| multicastPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Multicast Packets Input |
| broadcastPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| jumboOctetsInput | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Jumbo octets input |
| fragmentedPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Fragmented packets input |
| erroredPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Errored packets input |
| droppedPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Dropped Packet Input |
| unicastPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Unicast Packets Input |
| multicastPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total multicast packets output |
| broadcastPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Broadcast packets output |
| jumboOctetsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Jumbo Octets output |
| erroredPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Errored packets output |

### IpSubInterfaceCurrentPerformanceType

Applied Stereotypes:

Attributes for IpSubInterfaceCurrentPerformanceType

Table 1: Attributes for IpSubInterfaceCurrentPerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| performanceData | IpSubInterfacePerfomanceType | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

### IpSubInterfaceCurrentProblemType

Applied Stereotypes:

Attributes for IpSubInterfaceCurrentProblemType

Table 1: Attributes for IpSubInterfaceCurrentProblemType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| interfaceId | invalid | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Valid Interface as defined by the Vendor. |
| problemName | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Name of the alarm according to IpSubInterface::IpSubInterfaceCapability::supportedAlarms |
| vlandId | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Valid VLAN ID as defined in IEEE 802.1q |

### IpSubInterfaceHistoricalPerformanceType

Applied Stereotypes:

Attributes for IpSubInterfaceHistoricalPerformanceType

Table 1: Attributes for IpSubInterfaceHistoricalPerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| performaceData | IpSubInterfacePerfomanceType | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

### IpSubInterfacePerfomanceType

Applied Stereotypes:

Attributes for IpSubInterfacePerfomanceType

Table 1: Attributes for IpSubInterfacePerfomanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| interfaceId | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Valid Interface ID with port number |
| vlanId | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | VLAN ID of sub interface. |
| interfaceDescription | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| status | InterfaceStatusType | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Subinterface status |
| ipAddress | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | IP Address of the subinterface |
| IpAddressMask | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Network Mask of the IP address |
| l3Mtu | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | L3 MTU Size. |
| last10SecBitInputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total bits in the input direction over last 10 seconds interval. IP Transport Model Attribute List Annex 2.60a |
| last10SecBitOutputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total bits in the Output direction over last 10 seconds interval. IP Transport Model Attribute List Annex 2.60a |
| last10SecPacketsInputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Packets in the input direction over last 10 seconds interval. IP Transport Model Attribute List Annex 2.60a |
| last10SecPacketsOutputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total packets in the Output direction over last 10 seconds interval. IP Transport Model Attribute List Annex 2.60a |
| inputVolumeBytes | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Input Volume Bytes |
| outputVolumeBytes | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total output Volume bytes |
| unicastPacketsInput | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Unicast packets input |
| multicastPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Multicast Packets Input |
| broadcastPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| jumboOctetsInput | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Jumbo octets input |
| fragmentedPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Fragmented packets input |
| erroredPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Errored packets input |
| droppedPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Dropped Packet Input |
| unicastPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Unicast Packets Input |
| multicastPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total multicast packets output |
| broadcastPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Broadcast packets output |
| jumboOctetsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Jumbo Octets output |
| erroredPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Errored packets output |

### IpVlanInterfaceCurrentPerformanceType

Applied Stereotypes:

Attributes for IpVlanInterfaceCurrentPerformanceType

Table 1: Attributes for IpVlanInterfaceCurrentPerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| performanceData | IpVlanInterfacePerformanceType | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

### IpVlanInterfacePerformanceType

Applied Stereotypes:

Attributes for IpVlanInterfacePerformanceType

Table 1: Attributes for IpVlanInterfacePerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| vlanId | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | VLAN ID on the VlanInterface. |
| interfaceDescription | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| status | InterfaceStatusType | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Vlan interface status described as one of the possible state values such as up, down or admin\_down |
| ipAddress | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | IP Address of the subinterface |
| IpAddressMask | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Network Mask of the IP address |
| l3Mtu | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | L3 MTU Size. |
| last10SecBitInputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total bits in the Ingress direction during the last 10 seconds interval. |
| last10SecBitOutputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total bits in the Egress direction during the last 10 seconds interval. |
| last10SecPacketsInputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Packets in the Ingress direction during the last 10 seconds interval. |
| last10SecPacketsOutputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Packets in the Egress direction during the last 10 seconds interval. |
| inputVolumeBytes | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Input Volume Bytes |
| outputVolumeBytes | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total output Volume bytes |
| unicastPacketsInput | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Unicast packets input |
| multicastPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Multicast Packets Input |
| broadcastPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Broadcast packets in the ingress direction. |
| jumboOctetsInput | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Jumbo octets input |
| fragmentedPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Fragmented packets input |
| erroredPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Errored packets input |
| droppedPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Dropped Packet Input |
| unicastPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Unicast Packets Input |
| multicastPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total multicast packets output |
| broadcastPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Broadcast packets output |
| jumboOctetsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Jumbo Octets output |
| erroredPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Errored packets output |

### VlanInterfaceCurrentPerformanceType

Applied Stereotypes:

Attributes for VlanInterfaceCurrentPerformanceType

Table 1: Attributes for VlanInterfaceCurrentPerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| performanceData | VlanInterfacePerformanceType | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

### VlanInterfaceHistoricalPerformanceType

Applied Stereotypes:

Attributes for VlanInterfaceHistoricalPerformanceType

Table 1: Attributes for VlanInterfaceHistoricalPerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| performanceData | VlanInterfacePerformanceType | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

### VlanInterfacePerformanceType

Applied Stereotypes:

Attributes for VlanInterfacePerformanceType

Table 1: Attributes for VlanInterfacePerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| vlanId | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | VLAN ID on the VlanInterface. |
| vlanDescription | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | A brief description of the VLAN. Example: Interface for eNodeB XXXXX. IP Transport model attribute list 2.60a |
| last10SecBitInputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total bits in the Ingress direction during the last 10 seconds interval. |
| last10SecBitOutputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total bits in the Egress direction during the last 10 seconds interval. |
| last10SecPacketsInputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Packets in the Ingress direction during the last 10 seconds interval. |
| last10SecPacketsOutputRate | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Packets in the Egress direction during the last 10 seconds interval. |
| inputVolumeBytes | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Input Volume Bytes |
| outputVolumeBytes | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total output Volume bytes |
| unicastPacketsInput | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Unicast packets input |
| multicastPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Multicast Packets Input |
| broadcastPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Broadcast packets in the ingress direction. |
| jumboOctetsInput | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Jumbo octets input |
| fragmentedPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Fragmented packets input |
| erroredPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Errored packets input |
| droppedPacketsInput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Dropped Packet Input |
| unicastPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Unicast Packets Input |
| multicastPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total multicast packets output |
| broadcastPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Broadcast packets output |
| jumboOctetsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Jumbo Octets output |
| erroredPacketsOutput | Integer | 1 | R | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Total Errored packets output |

### VlanStringList

Applied Stereotypes:

Attributes for VlanStringList

Table 1: Attributes for VlanStringList

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| vlanString | String | 1..\* | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

### vlanInterfaceCurrentProblemType

Applied Stereotypes:

Attributes for vlanInterfaceCurrentProblemType

Table 1: Attributes for vlanInterfaceCurrentProblemType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| vlanId | invalid | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Vlaid VLAN ID as defined in IEEE 802.1q. |
| problemName | String | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Name of the alarm according to vlanInterface::vlanInterfaceCapability::supportedAlarms |

## Enumeration Types

### InterfaceStatusType

Current Interface Status

Contains Enumeration Literals:

* UP:
* DOWN:
* ADMIN\_DOWN:

### L2QosClassificationSourceType

Contains Enumeration Literals:

* NOT-SPECIFIED:
* 8021P:
* DSCP:

### L3QosTaggingSourceType

Contains Enumeration Literals:

* 8021P:
* DSCP:
* NOT-SPECIFIED:

### ProtocalBasedVlanType

Contains Enumeration Literals:

* APPLETALK:
* IPV4:
* IPV6:
* IPX:

### SeverityType

Contains Enumeration Literals:

* NON-ALARMED:
* WARNING:
* MAJOR:
* MINOR:

### SwitchInterfaceType

Contains Enumeration Literals:

* NOT-SPECIFIED:
* TRUNK:
* ACCESS:

### TransmissionModeType

Contains Enumeration Literals:

* NOT-SPECIFIED:
* HALF-DUPLEX:
* FULL-DUPLEX:

### vlanType

Contains Enumeration Literals:

* STATIC-VLAN:
* COMMON:
* SUPER-VLAN:
* SUB-VLAN:
* PRINCIPAL-VLAN:
* GROUP-VLAN:
* SEPARATE-VLAN:
* MANAGE-VLAN:
* CARRIER-VLAN:
* FCOE-VLAN:
* DYNAMIC-VLAN:

## Primitive Types

Normal back matter in the document.