EthernetMacPac

## Classes

### EthernetInterfaceCapability

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

Applied stereotypes:

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

Attributes for EthernetInterfaceCapability

Table 1: Attributes for EthernetInterfaceCapability

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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. |

### EthernetInterfaceConfiguration

Applied stereotypes:

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

Attributes for EthernetInterfaceConfiguration

Table 1: Attributes for EthernetInterfaceConfiguration

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| #adminShutdownIsOn | Boolean | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | True value will shutdown the Ethernet interface. |
| #maximumFrameSize | Integer | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY | Allowed L2 transmission unit size. IP Transport Model Atrribute list Annex 02.6a |

### EthernetInterfaceCurrentPerformance

Applied stereotypes:

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

Attributes for EthernetInterfaceCurrentPerformance

Table 1: Attributes for EthernetInterfaceCurrentPerformance

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

### EthernetInterfaceCurrentProblem

Applied stereotypes:

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

### EthernetInterfaceHistoricalPeformance

Applied stereotypes:

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

Attributes for EthernetInterfaceHistoricalPeformance

Table 1: Attributes for EthernetInterfaceHistoricalPeformance

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

### EthernetInterfaceStatus

Applied stereotypes:

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

Attributes for EthernetInterfaceStatus

Table 1: Attributes for EthernetInterfaceStatus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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 |

### EthernetInterface\_Pac

Applied stereotypes:

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

Attributes for EthernetInterface\_Pac

Table 1: Attributes for EthernetInterface\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_ethernetinterfacecapability | EthernetInterfaceCapability | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| \_ethernetinterfaceconfiguration | EthernetInterfaceConfiguration | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| \_ethernetinterfacestatus | EthernetInterfaceStatus | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| \_ethernetinterfacecurrentproblem | EthernetInterfaceCurrentProblem | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| \_ethernetinterfacecurrentperformance | EthernetInterfaceCurrentPerformance | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |
| \_ethernetinterfacehistoricalpeformance | EthernetInterfaceHistoricalPeformance | 1 | RW | OpenInterfaceModelAttribute   * AVC: NA   OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY |  |

### 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 |  |

## 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.