IpPac

## 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 | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA |  |
| timeStamp |  | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA |  |
| problemSeverity |  | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA |  |

### IpIntefaceHistoricalPerformances

Applied stereotypes:

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

Attributes for IpIntefaceHistoricalPerformances

Table 1: Attributes for IpIntefaceHistoricalPerformances

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

### IpInterfaceCapability

Applied stereotypes:

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

Attributes for IpInterfaceCapability

Table 1: Attributes for IpInterfaceCapability

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| adminShutDownIsAvail | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | To shutdown the interface administratively. IP Transport Model Atrribute list Annex 02.6a |
| autoNegotiationIsAvail | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Indicates if the autonegotiation feature is available on the device. IP Transport Model Atrribute list Annex 02.6a |
| speedMin | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Minimum Configurable Interface speed. IP Transport Model Atrribute list Annex 02.6a |
| speedMax | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Maximum Configurable Interface speed. IP Transport Model Atrribute list Annex 02.6a |
| portShapingIsAvail | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Shall be true if the port bandwidth is configurable. IP Transport Model Atrribute list Annex 02.6a |
| portShapingBandwidthMin | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Minimum configurable Port Shaping Bandwidht value. IP Transport model attribute list Annex 02.6a |
| portShapingBandwidthMax | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Indicates the Maximum allowed bandwidth on the Port. IP Transpot Model attribute List Annex 2.60a. |
| switchInterfaceIsAvail | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Shall be True if the interface can be configured as an L2 Interface. IP Transport Model Attribute list Annex 02.6a |
| l2MtuMin | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Minimum size of L2 transmissin Unit allowed. IP Transport Model Atrribute list Annex 02.6a |
| l2MtuMax | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Maximum L2 transmission size possible. IP Transport Model Atrribute list Annex 02.6a |
| stpIsAvail | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | This shall be true if the device has Spanning Tree Protocol support. IP Transport model attribute List 02.6a |
| stpPortFastIsAvail | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | This shall be true if the device supports pushing the port immediately onto Forwarding mode upon coming up. IP Transport module Attribute list 02.6a. |
| l2FlowStatIntegrationTimerRange | String | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Time period over which Traffic volume is integrated. IP Transport Model Atrribute list Annex 02.6a |
| supportedAlarms | String | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Supported Alarms according to configuration. IP Transport Model Attribute list Annex 02.6a  Available alarms to be listed.Mandatory InterfaceStatusTransition.Further alarms might be added by the device Vendors. Names are to be separated by commas. |
| ipInterfaceIsAvail | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Shall be True if the device supports L3 configuration on the port. IP Transport Model attribute list Annex 02.6a |
| vpnBindingIsAvail | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Shall be True if the port can be included as part of a VPN configuration. IP Transport Model Attribute List Annex 02.6a |
| l3MtuMin | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Minimum L3 Packet transmission size for successful transmission. IP Transport Model Attribute List 02.6a. |
| l3MtuMax | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Maximum L3 transmission size possible. IP Transport Model Atrribute list Annex 02.6a. |
| l3StatisticsIsAvail | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Shall be true if L3 statistics collection and aggregation is possible on the device. IP Transport Model attribute List annex 02.6a |
| l3FlowStatsUpdatePeriodRange | String | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Provides the L3 flow statistics update period on the device. IP Transport model attribute list Annex 02.6a. |

### IpInterfaceConfiguration

IP interface configuration class

Applied stereotypes:

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

Attributes for IpInterfaceConfiguration

Table 1: Attributes for IpInterfaceConfiguration

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| #ipAddress | String | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | IP address assigned to this interface. The format is IPv4, e.g. 172.168.0.5 |
| #ipAddressMask | Integer | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | IP address mask for the IP address assigned to this interface. The CIDR notation should be used, e.g. /28 255.255.255.0 |
| #interfaceDescription | String | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Brief description of the Interface, could be a name, could be a number. |
| #vpnName | invalid | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Name of the VPN instance. The ipAddress is related to this mentioned VPN instance. For the vpnName there is a defined data type VPN existing. |
| #l3Mtu | Integer | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Layer 3 Maximum Transmission Unit Size in unit byte. The MTU describes the maximum packet size that will travel along the entire route without fragmentation. |
| #l3QosTaggingSource | String | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Tbc with Olaf Struck DSCP (DiffServ Code Point) bits. In the IP Header there is a Type of Service Byte (TOS). |
| #l3QosDiffservProfile | String | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Tbc with Olaf Struck Traffic profile to be used for QoS. e.g. |
| #l3StatisticsIsOn | Boolean | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Layer 3 statistics collection is turned on with this attribute. |
| #l3FlowStatUpdatePeriod | Integer | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Time in seconds over which L3 traffic volume is aggregated. |
| #adminShutdownIsOn | Boolean | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | To shutdown the IP interface. The physical interface is not affected. |
| #portShapingBandwidth | Integer | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Port Shaping rate in Mbps. if null portshaping is off. |
| #defaultGateway | invalid | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | set the default IP Address for this IP Interface |
| beClassWeight | Integer | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Best Effort Queue Serving Rate as a percentage value. Attribute list Annex 02.6a |
| af1ClassWeight | Integer | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Assured Forwarding 1 weight as a percentage. IP Transport model Atrribute list Annex 2.6a |
| af1ClassWredProfile | String | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Name of the AF1 Assured Forwarding Weighted Random Early Detection Profile. IP Transport model Atrribute list Annex 02.6a |
| af2ClassWeight | Integer | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | AF2 Class weight for QoS, configured as a percentage.IP Transport model Atrribute list Annex 02.6a |
| af2ClassWredProfile | String | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Name of the AF2 Assured Forwarding Weighted Random Early Detection Profile.IP Transport model Atrribute list Annex 02.6a |
| af3ClassWeight | Integer | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Assured Forwarding Class 3 QoS class, configured as a percentage.IP Transport model Atrribute list Annex 02.6a |
| af3ClassWredProfile | String | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Name of the Assured Forwarding 3 Weighted Random Early Detection Profile.IP Transport model Atrribute list Annex 02.6a |
| af4ClassWeight | Integer | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Assured Forwarding 4 Class Weight as a percentage. Attribute list Annex 02.6a |
| af4ClassWredProfile | String | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Name of the Assured Forwarding 4 Weighted Random Early Detection Profile. |
| beClassWredProfile | String | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Name of the Best Effort Queue WRED Profile. Example BE\_WRED\_PROFILE. Atrribute list Annex 02.6a |
| efClassWeight | Integer | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Expedited Forwarding class Weight as a percentage. Attribute list Annex 02.6a |
| efClassWredProfile | String | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Name of the Expedited Forwarding WRED Class profile. Attribute list Annex 02.6a |
| cs6ClassWeight | Integer | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | CS6 Class Weight as a percentage. Attribute list 2.60a |
| cs6ClassWredProfile | String | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Name of the CS6 WRED Profile. Defined in Document for IP Attribute list 02.6a |
| cs7ClassWeight | Integer | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | CS7 Class Weight as a percentage. Attribute list 2.60a |
| cs7ClassWredProfile | String | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Name of the CS7 WRED profile used for QoS. Attribute list 2.60a |

### IpInterfaceCurrentPerformance

Applied stereotypes:

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

Attributes for IpInterfaceCurrentPerformance

Table 1: Attributes for IpInterfaceCurrentPerformance

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

### IpInterfaceCurrentProblems

Applied stereotypes:

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

Attributes for IpInterfaceCurrentProblems

Table 1: Attributes for IpInterfaceCurrentProblems

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

### IpInterfaceStatus

Applied stereotypes:

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

Attributes for IpInterfaceStatus

Table 1: Attributes for IpInterfaceStatus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| adminShutDownIsUp | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Shall be true if the interface shutdown is allowed. IP Transport model attribute list annex 02.6a |
| autoNegotiationIsUp | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Shall be true if the autonegotiation feature is enabled. IP Transport model attribute list 02.6a. |
| speedCur | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Currently configured Interface speed. One of the values from 100 or 1000 Mbps. IP Transport Model Attribute List Annex 02.6a. |
| portShapingIsUp | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Shall be true if the port shaping is enabled. IP Transport model Attribute list Annex 02.6a. |
| portShapingBandwidthCur | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Currently configured Port Shaping Bandwidht value. IP Transport model attribute list Annex 02.6a |
| switchInterfaceIsUp | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Shall be True if the interface is as an L2 Interface. IP Transport Model Attribute list Annex 02.6a |
| l2MtuCur | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | L2 transmissin Unit currently allowed on the device. |
| stpIsAvail | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | This shall be true if the Spanning Tree Protocol is enabled on the port.IP Transport model attribute List 02.6a |
| stpPortFastIsUp | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | This shall be true fast port feature is enabled to push the port into Forwarding mode upon coming up. IP Transport module Attribute list 02.6a. |
| l2FlowStatIntegrationTimerCur | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | L2 Flow statistics collection timer currently configured on the device. IP Transport Attribute list Annex 02.6a |
| ipInterfaceIsUp | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Shall be True if the interface has L3 configuration. IP Transport Model attribute list Annex 02.6a |
| vpnBindingIsUp | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Shall be True if the port is configured as part of a VPN . IP Transport Model Attribute List Annex 02.6a |
| l3MtuCur | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | L3 Packet transmission size configured for successful transmission. IP Transport Model Attribute List 02.6a. |
| l3StatisticsIsUp | Boolean | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Shall be true if L3 statistics collection and aggregation is activated on the device. IP Transport Model attribute List annex 02.6a |
| l3FlowStatsUpdatePeriodCur | Integer | 1 | R | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA | Current value of the L3 Flow statistics update timer. IP Transport model attribute list Annex 02.6a. |

### IpInterface\_Pac

Applied stereotypes:

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

Attributes for IpInterface\_Pac

Table 1: Attributes for IpInterface\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_ipinterfaceconfiguration | IpInterfaceConfiguration | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA |  |
| \_ipinterfacestatus | IpInterfaceStatus | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA |  |
| \_ipinterfacecurrentproblems | IpInterfaceCurrentProblems | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA |  |
| \_ipinterfacecurrentperformance | IpInterfaceCurrentPerformance | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA |  |
| \_ipintefacehistoricalperformances | IpIntefaceHistoricalPerformances | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA |  |
| \_ipinterfacecapability | IpInterfaceCapability | 1 | RW | OpenModelAttribute   * valueRange: no range constraint * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA |  |

## Data Types

### IpInterfaceCurrentPerformanceType

Applied Stereotypes:

Attributes for IpInterfaceCurrentPerformanceType

Table 1: Attributes for IpInterfaceCurrentPerformanceType

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

### IpInterfaceCurrentProblemType

Applied Stereotypes:

Attributes for IpInterfaceCurrentProblemType

Table 1: Attributes for IpInterfaceCurrentProblemType

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

### IpInterfacePerformanceType

Applied Stereotypes:

Attributes for IpInterfacePerformanceType

Table 1: Attributes for IpInterfacePerformanceType

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

### IpSubInterfaceCurrentProblemType

Applied Stereotypes:

Attributes for IpSubInterfaceCurrentProblemType

Table 1: Attributes for IpSubInterfaceCurrentProblemType

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

### IpSubInterfacePerfomanceType

Applied Stereotypes:

Attributes for IpSubInterfacePerfomanceType

Table 1: Attributes for IpSubInterfacePerfomanceType

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

### IpVlanInterfacePerformanceType

Applied Stereotypes:

Attributes for IpVlanInterfacePerformanceType

Table 1: Attributes for IpVlanInterfacePerformanceType

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

### VlanInterfaceHistoricalPerformanceType

Applied Stereotypes:

Attributes for VlanInterfaceHistoricalPerformanceType

Table 1: Attributes for VlanInterfaceHistoricalPerformanceType

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

### VlanInterfacePerformanceType

Applied Stereotypes:

Attributes for VlanInterfacePerformanceType

Table 1: Attributes for VlanInterfacePerformanceType

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

### vlanInterfaceCurrentProblemType

Applied Stereotypes:

Attributes for vlanInterfaceCurrentProblemType

Table 1: Attributes for vlanInterfaceCurrentProblemType

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