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# Classes

## Profile

Applied stereotypes:

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

## QosCurrentProblem

Applied stereotypes:

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

Attributes for QosCurrentProblem

Table 1: Attributes for QosCurrentProblem

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| sequenceNumber | Integer  ./. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NA  • bitLength: NA |  |
| timeStamp | ./. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NA  • bitLength: NA |  |
| problemSeverity | ./. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NA  • bitLength: NA |  |

## QosProfileCapability

Applied stereotypes:

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

Attributes for QosProfileCapability

Table 2: Attributes for QosProfileCapability

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| profileNamingIsAvail | Boolean  false | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | 1 = There is a free text field available for naming the profile. |
| availableQueueList | QueueNameType  QUEUENAME\_NOT\_YET\_DEFINED | 1..8 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | List of queues, which are available at the physical interface. |
| dropPrecedenceAtBeQueueIsAvail | Boolean  false | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | 1 = Configuration of the drop precedence is available at the best effort queue. |
| dropPrecedenceAtAfQueuesIsAvail | Boolean  false | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | 1 = Configuration of the drop precedence is available at the assured forwarding queues. |
| dropPrecedenceAtPrioQueuesIsAvail | Boolean  false | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | 1 = Configuration of the drop precedence is available at the priority queues. |
| availableQoSProfileKindList | QosProfileKindType  NOT\_YET\_DEFINED | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | List of header information that are supported to be base of the QoS definition. |

## QosProfileConfiguration

Defines the profile that will be used for mapping between header information and queues (next hop behavior).

Applied stereotypes:

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

Attributes for QosProfileConfiguration

Table 3: Attributes for QosProfileConfiguration

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| profileName | String  Name of profile not yet defined. | 1 | R | OpenModelAttribute  • partOfObjectKey: 1  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Identifier of the profile. Could be a name, could be a number. Free text field to be filled by the operator. |
| qosProfileKind | QosProfileKindType  NOT\_YET\_DEFINED | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Defines whether the sorting into queues is done based on VLAN, MPLS or IP header information. |
| ingress8021pToPerHopBehaviorMappingList | PerHopBehaviorType  ./. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Only relevant when qosProfileKind == IEEE8021P. Associates the value of the three p-bits of the VLAN header with a per hop behavior at the physical interface. First entry in the list [0] relates to p-bit value '0'. Last entry in the list [7] relates to p-bit value '7'. |
| ingressExpToPerHopBehaviorMappingList | PerHopBehaviorType  ./. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Only relevant when qosProfileKind == MPLS\_EXP. Associates the value of the three p-bits of the MPLS header with a per hop behavior at the physical interface. First entry in the list [0] relates to p-bit value '0'. Last entry in the list [7] relates to p-bit value '7'. |
| ingressIpDscpToPerHopBehaviorMappingList | PerHopBehaviorType  ./. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Only relevant when qosProfileKind == IP\_DSCP. Associates the value of the 8 dscp bits of the IP header with a per hop behavior at the physical interface. First entry in the list [0] relates to dscp value '0'. Last entry in the list [63] relates to dscp value '63'. |
| writingPerHopBehaviorInto8021pIsOn | Boolean  false | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | 1 = Original content of 802.1p bits is overwritten with local per hop behavior. |
| egressPerHopBehaviorTo8021pMappingList | EgressPerHopBehaviorToPriorityBitsMappingType  ./. | 0..24 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Only relevant if (writingPerHopBehaviorInto8021pIsOn==1). Translates (queue and drop precedence) into values of the three p-bits of the VLAN header. |
| writingPerHopBehaviorIntoMplsExpIsOn | Boolean  false | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | 1 = Original content of MPLS EXP bits is overwritten with local per hop behavior. |
| egressPerHopBehaviorToMplsExpMappingList | EgressPerHopBehaviorToPriorityBitsMappingType  ./. | 0..24 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Only relevant if (writingPerHopBehaviorIntoMplsExpIsOn==1). Translates (queue and drop precedence) into values of the three p-bits of the MPLS header. |
| writingPerHopBehaviorIntoIpDscpIsOn | Boolean  false | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | 1 = Original content of IP DSCP bits is overwritten with local per hop behavior. |
| egressPerHopBehaviorToIpDscpMappingList | EgressPerHopBehaviorToPriorityBitsMappingType  ./. | 0..24 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Only relevant if (writingPerHopBehaviorIntoIpDscpIsOn==1). Translates (queue and drop precedence) into values of the six dscp bits of the IP header. |

## QosProfileCurrentPerformance

Applied stereotypes:

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

Attributes for QosProfileCurrentPerformance

Table 4: Attributes for QosProfileCurrentPerformance

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

## QosProfileCurrentProblems

Applied stereotypes:

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

Attributes for QosProfileCurrentProblems

Table 5: Attributes for QosProfileCurrentProblems

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

## QosProfileHistoricalPerformances

Applied stereotypes:

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

Attributes for QosProfileHistoricalPerformances

Table 6: Attributes for QosProfileHistoricalPerformances

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

## QosProfileStatus

Applied stereotypes:

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

## QosProfile\_Pac

Applied stereotypes:

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

Attributes for QosProfile\_Pac

Table 7: Attributes for QosProfile\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_qosProfileCapability | QosProfileCapability  ./. | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |
| \_qosProfileConfiguration | QosProfileConfiguration  ./. | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |
| \_qosProfileStatus | QosProfileStatus  ./. | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |
| \_qosProfileCurrentProblems | QosProfileCurrentProblems  ./. | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |
| \_qosProfileCurrentPerformance | QosProfileCurrentPerformance  ./. | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |
| \_qosProfileHistoricalPerformances | QosProfileHistoricalPerformances  ./. | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |

# Data Types

## EgressPerHopBehaviorToPriorityBitsMappingType

Applied Stereotypes:

Attributes for EgressPerHopBehaviorToPriorityBitsMappingType

Table 8: Attributes for EgressPerHopBehaviorToPriorityBitsMappingType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| perHopBehavior | PerHopBehaviorType  ./. | 1 | RW | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: YES * bitLength: NA | Per hop behavior, which is to be translated into a p-bit entry in the VLAN, MPLS or IP header. |
| valueOfPriorityBits | Integer  -1 | 1 | RW | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: YES * bitLength: NA | Associated value of the three, three or six p-bits of the VLAN, MPLS or IP header. |

## PerHopBehaviorType

Applied Stereotypes:

Attributes for PerHopBehaviorType

Table 9: Attributes for PerHopBehaviorType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| queueName | QueueNameType  QUEUENAME\_NOT\_YET\_DEFINED | 1 | RW | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: YES * bitLength: NA | Name of the queue. |
| dropPrecedenceInsideQueue | DropPrecedenceType  NOT\_YET\_DEFINED | 1 | RW | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: YES * bitLength: NA | (if dropPrecedenceAt\*QueueIsAvail for the referenced queue == 0) default value shall be kept and configuration attempts shall be ignored. |

## QosProfileCurrentPerformanceType

#### Generalization of OTN\_CurrentData is missing

Applied Stereotypes:

Attributes for QosProfileCurrentPerformanceType

Table 10: Attributes for QosProfileCurrentPerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| performanceData | QosProfilePerformanceType  ./. | 1 | R | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA * bitLength: NA |  |

## QosProfileCurrentProblemType

Applied Stereotypes:

Attributes for QosProfileCurrentProblemType

Table 11: Attributes for QosProfileCurrentProblemType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| problemName | String  ./. | 1 | RW | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA * bitLength: NA | Name of the alarm according to IpInterface\_Pac::IpInterfaceCapability::supportedAlarmList |

## QosProfileHistoricalPerformanceType

#### Generalization of OTN\_HistoryData is missing

Applied Stereotypes:

Attributes for QosProfileHistoricalPerformanceType

Table 12: Attributes for QosProfileHistoricalPerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| performanceData | QosProfilePerformanceType  ./. | 1 | RW | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA * bitLength: NA |  |

## QosProfilePerformanceType

Applied Stereotypes:

Attributes for QosProfilePerformanceType

Table 13: Attributes for QosProfilePerformanceType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| throughputPerInHobBehaviorList | ThroughputPerInHobBehaviorType  ./. | 1 | R | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Preliminary  OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA | openconfig-qos-interfaces.yang |

## QosProfileProblemSeverityType

Applied Stereotypes:

Attributes for QosProfileProblemSeverityType

Table 14: Attributes for QosProfileProblemSeverityType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| problemKindName | String  ./. | 1 | RW | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA * bitLength: NA | Name of the alarm according to IpInterface\_Pac::IpInterfaceCapability::supportedAlarmList |
| problemKindSeverity | invalid | 1 | RW | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NA * bitLength: NA | Severity of this type of alarm. |

## ThroughputPerInHobBehaviorType

openconfig-qos-interfaces.yang

Applied Stereotypes:

* Preliminary

Attributes for ThroughputPerInHobBehaviorType

Table 15: Attributes for ThroughputPerInHobBehaviorType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_perHopBehavior | PerHopBehaviorType  ./. | 1 | RW | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA | Per hop behavior, which is to be translated into a p-bit entry in the VLAN, MPLS or IP header. |
| numberOfPackets | Integer  -1 | 1 | R | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_64\_BIT | openconfig-qos-interfaces.yang. Count of the number of packets matching this classifier match term on the interface. |
| numberOfOctects | Integer  -1 | 1 | R | OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_64\_BIT | openconfig-qos-interfaces.yang. Count of the number of octets (bytes) matching this classifier match term on the interface. |

# Enumeration Types

## DropPrecedenceType

Contains Enumeration Literals:

* NONE:
* LOW:
  + Would be equal to GREEN.
* MEDIUM:
  + Would be equal to YELLOW.
* HIGH:
  + Would be equal to RED.
* NOT\_YET\_DEFINED:

## QosProfileKindType

Contains Enumeration Literals:

* NONE:
* IEEE8021P:
* MPLS\_EXP:
* IP\_DSCP:
* NOT\_YET\_DEFINED:

## QueueNameType

Contains Enumeration Literals:

* BEST\_EFFORT\_QUEUE:
* ASSURED\_FORWARDING\_QUEUE1:
* ASSURED\_FORWARDING\_QUEUE2:
* ASSURED\_FORWARDING\_QUEUE3:
* ASSURED\_FORWARDING\_QUEUE4:
* EXPEDITED\_FORWARDING\_QUEUE:
* CLASS\_SELECTOR\_QUEUE6:
* CLASS\_SELECTOR\_QUEUE7:
* QUEUENAME\_NOT\_YET\_DEFINED:

## SeverityType

Contains Enumeration Literals:

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

# Primitive Types