Content

[1.1 SchedulerProfileCapability 1](#_Toc154152662)

[1.2 SchedulerProfileConfiguration 1](#_Toc154152663)

[1.3 SchedulerProfileSpec 2](#_Toc154152664)

[1.4 SchedulerProfile\_Pac 3](#_Toc154152665)

[2 Data Types 4](#_Toc154152666)

[2.1 AvailableQueueType 4](#_Toc154152667)

[2.2 QueueBehaviorType 4](#_Toc154152668)

[3 Enumeration Types 5](#_Toc154152669)

[3.1 ProfileNameType 5](#_Toc154152670)

[3.2 QueueNameType 5](#_Toc154152671)

[3.3 SchedulerKindType 6](#_Toc154152672)

## SchedulerProfileCapability

Applied stereotypes:

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

Attributes for SchedulerProfileCapability

Table 1: Attributes for SchedulerProfileCapability

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| schedulerKindConfigurationIsAvail | Boolean  false | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY | This attribute has to be set on 'true', if the kind of scheduler can be configured for a profile, which can be referenced by several interfaces. |
| availableQueueList | AvailableQueueType  ./. | 1..8 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY | List of queues, which are available at the physical interface. |

## SchedulerProfileConfiguration

Applied stereotypes:

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

Attributes for SchedulerProfileConfiguration

Table 1: Attributes for SchedulerProfileConfiguration

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| queueBehaviorList | QueueBehaviorType  ./. | 1..8 | R | OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY | Defines scheduling and dropping behavior of all queues. |

## SchedulerProfileSpec

Applied stereotypes:

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

Attributes for SchedulerProfileSpec

Table 1: Attributes for SchedulerProfileSpec

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_schedulerProfile\_Pac | SchedulerProfile\_Pac  ./. | 1 | RW | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY | See referenced class |

## SchedulerProfile\_Pac

Applied stereotypes:

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

Attributes for SchedulerProfile\_Pac

Table 1: Attributes for SchedulerProfile\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_schedulerProfileCapability | SchedulerProfileCapability  ./. | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY | See referenced class |
| \_schedulerProfileConfiguration | SchedulerProfileConfiguration  ./. | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY | See referenced class |

# Data Types

## AvailableQueueType

Applied Stereotypes:

Attributes for AvailableQueueType

Table 1: Attributes for AvailableQueueType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| queueName | QueueNameType  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 1 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Name of the queue. |
| availableSchedulingKindList | SchedulerKindType  NOT\_YET\_DEFINED | 0..\* | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Lists the available types of scheduling. |

## QueueBehaviorType

Applied Stereotypes:

Attributes for QueueBehaviorType

Table 1: Attributes for QueueBehaviorType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| queueName | QueueNameType  ./. | 1 | RW | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 1 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Name of the queue. |
| schedulerKind | SchedulerKindType  NOT\_YET\_DEFINED | 1 | RW | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Type of scheduler to be used for this queue. |
| weighting | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_8\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: % * support: MANDATORY | Only relevant if (schedulerKind==WFQ) OR (schedulerKind==DWRR) OR (schedulerKind==WRR). Serving rate for this weighted fair queueing queue as a percentage value. |

# Enumeration Types

## ProfileNameType

A controlled list of Profile names.

Contains Enumeration Literals:

* PROFILE\_NAME\_TYPE\_SCHEDULER\_PROFILE:

## QueueNameType

Contains Enumeration Literals:

* BEST\_EFFORT\_QUEUE:
  + QueueNumber=0;
* ASSURED\_FORWARDING\_QUEUE1:
  + QueueNumber=1;
* ASSURED\_FORWARDING\_QUEUE2:
  + QueueNumber=2;
* ASSURED\_FORWARDING\_QUEUE3:
  + QueueNumber=3;
* ASSURED\_FORWARDING\_QUEUE4:
  + QueueNumber=4;
* EXPEDITED\_FORWARDING\_QUEUE:
  + QueueNumber=5;
* CLASS\_SELECTOR\_QUEUE6:
  + QueueNumber=6;
* CLASS\_SELECTOR\_QUEUE7:
  + QueueNumber=7;
* QUEUENAME\_NOT\_YET\_DEFINED:

## SchedulerKindType

Contains Enumeration Literals:

* STRICT:
  + Strict Priority
* WFQ:
  + Weighted-Fair-Queuing
* WRR:
  + Weighted Round Robin
* DWRR:
  + Deficit Weighted Round Robin
* NOT\_YET\_DEFINED: