

## Configuring a QoS Profile

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Before you configure a QoS profile:

- Configure the traffic classes.  
See Configuring Traffic Classes That Define Service Levels.
- Configure the queuing hierarchy.  
See Configuring Queue Profiles to Manage Buffers and Thresholds.
- Configure the scheduler hierarchy and shaping with scheduler profiles.  
See Configuring a Scheduler Hierarchy.

To configure a QoS profile:

1. Create a QoS profile and enter QoS Profile Configuration mode.

```
host1(config)#qos-profile qos-profile  
host1(config-qos-profile)#
```

2. (Optional) Configure a group node for each interface.

```
host1(config-qos-profile)#atm group groupA scheduler-profile scheduler1  
statistics-profile statpro-1
```

When you configure a group node, you can also reference a default or named traffic-class group, a scheduler profile, or a statistics profile.

If you do not specify a traffic-class group, the group node defaults to the *default* group. Each traffic class can belong to only one traffic-class group (either the default group or a named group).

The router supports up to four traffic-class groups above a given port.

3. (Optional) Configure a scheduler node for interfaces.

```
host1(config-qos-profile)#atm node scheduler-profile scheduler1 group  
strict-priority
```

When you configure a scheduler node, you can also reference a default or named traffic-class group and a scheduler profile.

The scheduler profile supplies a relative weight and potentially a shaping rate to be applied at the scheduler node.



**NOTE:** You cannot associate a scheduler profile with a port-type interface unless you also specify the strict-priority group.

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4. (Optional) Configure a queue for interfaces in the specified traffic class.

```
host1(config-qos-profile)#atm queue traffic-class strict-priority scheduler-profile  
scheduler1 queue-profile queue1 drop-profile drop1
```

When you configure a queue, you can include any of the following profiles:

- The scheduler profile supplies a relative weight and potentially a shaping rate to be applied at the queue.
- The queue profile supplies threshold information for the queue if the router defaults are not appropriate.
- The drop profile supplies dropping behavior of a set of egress queues.

Each queue traffic class can appear in only one traffic-class group.

- Related Topics**
- Attaching a QoS Profile to an Interface
  - Supported Interface Types for QoS Profiles
  - Configuring Shadow Nodes
  - Monitoring a Scheduler Hierarchy on an Interface with QoS Profiles
  - For information about configuring QoS profiles with Service Manager, see *JUNOS Broadband Access Configuration Guide*
  - group
  - node
  - qos-profile
  - queue

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