

Configuring Strict-Priority Scheduling

To configure strict-priority scheduling:

1. Configure the traffic classes.

```
host1(config)#traffic-class Low-loss-1
host1(config-traffic-class)#exit
host1(config)#traffic-class Low-latency-1
host1(config-traffic-class)#exit
host1(config)#traffic-class Low-latency-2
host1(config-traffic-class)#exit
```

2. Configure the auto-strict-priority traffic-class group, and add the traffic classes that must receive strict-priority scheduling to the group.

```
host1(config)#traffic-class-group Strict-priority auto-strict-priority
host1(config-traffic-class-group)#traffic-class Low-latency-1
host1(config-traffic-class-group)#traffic-class Low-latency-2
host1(config-traffic-class-group)#exit
```

3. Create a scheduler profile for strict-priority traffic and configure the shaping rate.

```
host1(config)#scheduler-profile strictPriorityBandwidth
host1(config-scheduler-profile)#shaping-rate 20000000
host1(config-scheduler-profile)#exit
```

4. Configure a QoS profile.

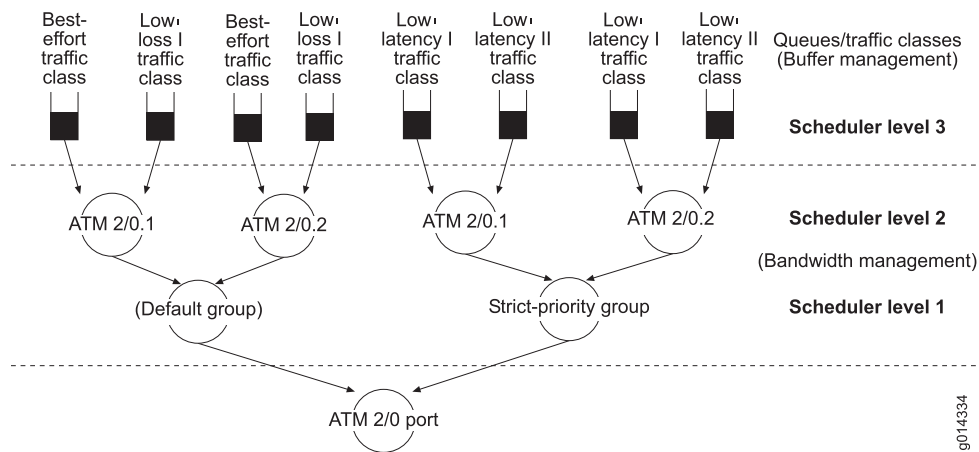
```
host1(config)#qos-profile Example-qos-profile
host1(config-qos-profile)#atm group default
host1(config-qos-profile)#atm group Strict-priority scheduler-profile
strictPriorityBandwidth
host1(config-qos-profile)#atm-vc node group default
host1(config-qos-profile)#atm-vc node group Strict-priority
host1(config-qos-profile)#atm-vc queue traffic-class best-effort
host1(config-qos-profile)#atm-vc queue traffic-class Low-loss-1
host1(config-qos-profile)#atm-vc queue traffic-class Low-latency-1
host1(config-qos-profile)#atm-vc queue traffic-class Low-latency-2
host1(config-qos-profile)#exit
```

5. Attach the QoS profile to an interface.

```
host1(config)#interface atm 2/0
host1(config-if)#qos-profile Example-qos-profile
host1(config-if)#exit
host1(config)#
```

This configuration creates the hierarchy shown in Figure 1.

Figure 1: Sample Strict-Priority Scheduling Hierarchy



- Related Topics**
- Strict-Priority and Relative Strict-Priority Scheduling Overview
 - For more information about specifying an expression that you can reference within a scheduler profile, see Using Expressions for Bandwidth and Burst Values in a Scheduler Profile
 - group
 - node
 - qos-profile
 - queue
 - scheduler-profile
 - shaping-rate
 - strict-priority
 - traffic-class
 - traffic-class-group