

## Configuring Shadow Nodes

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Before you configure shadow nodes:

- 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 add a shadow node to a QoS profile:

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

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

2. Configure a scheduler node for each interface of the specified type.

```
host1(config-qos-profile)#atm node scheduler-profile default
```

3. Configure a shadow node for each interface of the specified type.

```
host1(config-qos-profile)#atm shadow-node scheduler-profile default
```

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

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

5. (Optional) Configure a traffic-class group and reference a scheduler profile in the QoS profile.

```
host1(config-qos-profile)#atm group default scheduler-profile default
```

The router creates the shadow node when the following conditions are met:

- After all the nodes and group nodes are created.
- If the queues are not at the required scheduler level.
- When a node of the same interface type has existed in the same group of the scheduler hierarchy.

### Related Topics

- Shadow Node Overview
- Shadow Nodes and Scheduler Behavior
- Managing System Resources for Shadow Nodes

- Monitoring a Scheduler Hierarchy on an Interface with QoS Profiles
- group command
- node command
- qos-profile command
- queue command
- shadow-node command