

## Monitoring the QoS Profiles Attached to an Interface

**Purpose** Display the QoS profiles in effect for and stacked above the specified interface. If no QoS profiles are attached to the interface or above the interface, the router displays the QoS profile that is in effect down the interface stack toward the port interface.

**Action** To display the interface hierarchy for a specific interface:

```
host1#show qos interface-hierarchy interface atm 11/0.1
attachment@ atm-vc ATM11/0.1:
      qos profile      t-class interface rule   traffic   scheduler   queue
      -----      -
      qos profile      group   type    type    class      profile     profile
-----
qp2@ATM11/0.1          atm-vc  node           default default
qp2@ATM11/0.1          atm-vp  node           default default
qp2@ATM11/0.1          atm-vc  queue best-effort default default
qp2@ATM11/0.1          atm-vc  queue tc5       default default
qp2@ATM11/0.1          atm-vc  queue tc6       default default
qp2@ATM11/0.1  g1      atm      group          strictShaper default
qp2@ATM11/0.1  g1      atm-vc  node           default default
qp2@ATM11/0.1  g1      atm-vp  node           default default
qp2@ATM11/0.1  g1      atm-vc  queue tc1       default default
qp2@ATM11/0.1  g1      atm-vc  queue tc2       default default
qp2@ATM11/0.1  g2      atm-vp  node           default default
qp2@ATM11/0.1  g2      atm-vc  queue tc3       default default
qp2@ATM11/0.1  g2      atm-vc  queue tc4       default default
```

To display the interface hierarchy using an L2TP session:

```
host1#show qos interface-hierarchy l2tp-session session1
```

To display the interface hierarchy for a tunnel interface, specify the interface at the root of the scheduler hierarchy located on the tunnel-service interface or at the same hierarchy for LNS GRE tunnel traffic:

```
host1#show qos interface-hierarchy tunnel-server 6/0
```

To display the interface hierarchy for an interface set:

```
host1#show qos interface-hierarchy qos-interface-set gigEbusiness
```

To display the interface hierarchy for an interface superset:

```
host1#show qos interface-hierarchy qos-interface-superset allservices
```

**Meaning** Table 1 lists the **show qos interface-hierarchy** command output fields.

**Table 1: show qos interface-hierarchy Output Fields**

Field Name	Field Description
attachment@	Interface for which the hierarchy is being displayed
qos profile	Name of the QoS profile and its attachment point

**Table 1: show qos interface-hierarchy Output Fields** *(continued)*

Field Name	Field Description
t-class group	Traffic-class groups associated with the interface
interface type	Type of interface to which the profile is attached
rule type	Queue, node, group, or shadow node
traffic class	Name of the traffic class associated with the queue
scheduler profile	Scheduler profiles associated with the interface
queue profile	Queue profiles associated with the interface

- Related Topics**
- Configuring a QoS Profile
  - Attaching a QoS Profile to an Interface
  - Creating Parameter Instances
  - Configuring Interface Sets for QoS
  - Configuring Interface Supersets for QoS
  - show qos interface-hierarchy

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