

## Monitoring the QoS Configuration of IP Interfaces

**Purpose** Display the QoS configuration on a particular IP interface.

A dynamic IP interface can have a QoS profile attached by RADIUS. For example, if configured by RADIUS, the **show ip interface** command might show the following:

```
Attached QoS profile: Strict-qos
```

However, if the profile is configured statically, the QoS profile is attached to the ATM subinterface, and the attachment is displayed by the **show atm subinterface** command rather than **show ip interface**.

**Action** To display the QoS configuration for an IP interface:

```
host1#show ip interface atm 2/0.1
ATM2/0.1 line protocol Atm1483 is up, ip is up
.....
Attached QoS profile: test @ ATM2/0
queue 0: traffic class best-effort, bound to ip ATM2/0.1
  Queue length 0 Bytes
  Forwarded packets 0, Bytes 0
  Dropped committed packets 0, Bytes 0
  Dropped conformed packets 0, Bytes 0
  Dropped exceeded packets 0, Bytes 0
  Dropped by WRED committed packets 0, bytes 0
  Dropped by WRED conformed packets 0, bytes 0
  Dropped by WRED exceeded packets 0, bytes 0
  Average queue length 150576 bytes
queue 1: traffic class tc1, bound to ip ATM2/0.1
  Queue length 0 Bytes
  Forwarded packets 0, Bytes 0
  Dropped committed packets 0, Bytes 0
  Dropped conformed packets 0, Bytes 0
  Dropped exceeded packets 0, Bytes 0
  Dropped by WRED committed packets 0, bytes 0
  Dropped by WRED conformed packets 0, bytes 0
  Dropped by WRED exceeded packets 0, bytes 0
  Average queue length 150576 bytes
```

**Meaning** Table 1 on page 1 lists the related **show ip interface** command output fields.

**Table 1: show ip interface Output Fields**

Field Name	Field Description
Attached QoS profile	QoS profile attachment at or below the displayed interface. For example, if the interface being displayed is an IP interface, and the attachment is at the VC, the VC interface attachment is displayed.
queue 0	Number of the queue for which statistics are being displayed and whether the queue is under traffic class control
traffic class	Name of traffic class

**Table 1: show ip interface Output Fields** *(continued)*

Field Name	Field Description
bound to	Interface to which queue is bound
Queue length	Size of queue in length and bytes
Forwarded	Number of forwarded packets and bytes
Dropped committed	Number of committed packets and bytes dropped
Dropped conformed	Number of conformed packets and bytes dropped
Dropped exceeded	Number of exceeded packets and bytes dropped
Dropped by WRED committed	Number of committed packets and bytes dropped by WRED
Dropped by WRED conformed	Number of conformed packets and bytes dropped by WRED
Dropped by WRED exceeded	Number of exceeded packets and bytes dropped by WRED
Average queue length	Average length of queue in bytes

- Related Topics**
- Configuring a QoS Profile
  - Attaching a QoS Profile to an Interface
  - Creating Parameter Instances
  - show ip interface command