

Monitoring QoS Parameter Instances

Purpose Display the QoS parameter instances for QoS clients.

Action To display information about the QoS parameters attached to a specific interface or port type:

```
host1#show qos-parameter max-subscriber-bw references
```

interface	parameter name	value
global	max-subscriber-bw	5000000
ATM11/0.1	max-subscriber-bw	6000000

```
Global parameter instances:      1
Parameter instances reported:    2
```

To display a list of all QoS parameters attached to all interfaces:

```
host1#show qos-parameter references
```

interface	parameter name	value
global	max-subscriber-bandwidth	2000000
global	subscriber-weight	1
global	max-subscriber-video-bandwidth	2000000
global	max-100Kbps-voice-calls	1
FastEthernet9/0.2	max-subscriber-bandwidth	6000000
	subscriber-weight	3
	max-subscriber-video-bandwidth	2000000
	max-100Kbps-voice-calls	1
FastEthernet9/0.3	max-subscriber-bandwidth	8000000
	subscriber-weight	6
	max-subscriber-video-bandwidth	3000000
	max-100Kbps-voice-calls	3
FastEthernet9/0 svlan 1	max-subscriber-video-bandwidth	1000000

```
Global parameter instances:      4
Parameter instances reported:    13
```

To display the QoS profile name and attachment data for a specific interface:

```
host1#show qos-parameter references interface fastEthernet 9/0.3
```

interface	parameter name	value	instance Type
FastEthernet9/0.3	max-subscriber-bandwidth	8000000	explicit
	subscriber-weight	6	explicit
	max-subscriber-video-bandwidth	3000000	explicit
	max-100Kbps-voice-calls	3	explicit

```
Explicit parameter instances:      4
Hierarchical parameter instances:  0
IP multicast parameter instances:  0
Parameter instances reported:      4
```

To display information in expanded format, including Service Manager references:

```
host1#show qos-parameter video references full
```

parameter	service manager
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interface	name	value	source	refs	persistence
GigabitEthernet6/0	video	50	default	none	persistent

Global parameter instances: 0
Parameter instances reported: 1

To display information about global parameter instance attachments in condensed format:

host1#show qos-parameter references global brief

To display information about the parameter instances attached to a specific 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-parameter references tunnel-server 6/0

To display information about the parameter instances attached to a specific L2TP session:

host1#show qos-parameter references l2tp-session session1

To display parameter instances only on the specified interface and not QoS parameters stacked above the interface:

host1#show qos-parameter references gigabitEthernet 6/0 explicit

Meaning Table 1 on page 2 lists the **show qos-parameter** command output fields.

Table 1: show qos-parameter Output Fields

Field Name	Field Description
interface	Location of the interface to which the parameter instance is assigned; global indicates that the parameter is assigned to the chassis
parameter name	Name of the parameter instance
value	Value assigned to the parameter instance
source	Source of the parameter instance: <ul style="list-style-type: none"> ■ dcm—Parameter instance was created in a profile ■ radius—Parameter instance was created through RADIUS ■ service manager—Parameter instance was created through Service Manager ■ default—Parameter instance was created through the CLI or SNMP
service manager refs	Number of references of this parameter instance created through Service Manager

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

Field Name	Field Description
persistence	Status of the persistence of a parameter instance in the system: <ul style="list-style-type: none">■ persistent—Parameter instance is stored in NVS and is restored after a chassis reset■ non-persistent—Parameter instance is not stored in NVS and are deleted after a chassis reset
Global parameter instances	Number of parameter instances assigned to the chassis
Parameter instances reported	Total number of parameter instances assigned
Explicit parameter instances	Total number of explicit parameter instances assigned
Hierarchical parameter instances	Total number of hierarchical parameter instances assigned
IP multicast parameter instances	Total number of parameter instances associated with the IP multicast bandwidth adjustment application

- Related Topics**
- Creating Parameter Instances
 - show qos-parameter command

