



## CHAPTER 6

# Monitoring QoS Statistics

---

This chapter describes how to enable, display, and clear QoS statistics on the Cisco 1000 Series Connected Grid Routers (*hereafter* referred to as the Cisco CG-OS router). This chapter includes the following sections:

- [Information About QoS Statistics, page 6-1](#)
- [Prerequisites for Monitoring QoS Statistics, page 6-1](#)
- [Enabling Statistics, page 6-1](#)
- [Monitoring the Statistics, page 6-2](#)
- [Clearing Statistics, page 6-3](#)

## Information About QoS Statistics

You can display various QoS statistics for the Cisco CG-OS router. By default, statistics are enabled, but you can disable this feature. For more information, see [Enabling Statistics, page 6-1](#).

## Prerequisites for Monitoring QoS Statistics

You must be familiar with [Chapter 2, “Using Modular QoS CLI.”](#)

You must log in to the Cisco CG-OS router.

## Guidelines and Limitations

None.

## Enabling Statistics

You can enable or disable QoS statistics for all interfaces on the Cisco CG-OS router. By default, QoS statistics are enabled on the Cisco CG-OS router.

## DETAILED STEPS

	Command	Purpose
Step 1	<b>configure terminal</b>	Enters configuration mode.
Step 2	<b>qos statistics</b>	Enables QoS statistics on all interfaces.
	<b>no qos statistics</b>	Disables QoS statistics on all interfaces.
Step 3	<b>show policy-map interface</b>	(Optional) Displays the statistics status and the configured policy maps on all interfaces.
Step 4	<b>copy running-config startup-config</b>	(Optional) Saves the running configuration to the startup configuration.

## EXAMPLE

This example shows how to enable QoS statistics on all interfaces:

```
router# configure terminal
router(config)# qos statistics
router(config)# copy running-config startup-config
```

To disable QoS statistics on all interfaces, enter the **no qos statistics** command in the configuration mode.

## Monitoring the Statistics

You can display QoS statistics for all interfaces or a selected interface, data direction, or a QoS type by using the following **show** command.

Command	Purpose
<b>show policy-map</b> [ <i>policy-map-name</i> ] [ <b>interface</b> { <i>cellular</i>   <i>ethernet</i>   <i>wimax</i> } <i>slot/port</i> ] [ <b>output</b> ] [ <b>type qos</b> ]	Displays statistics and the configured policy maps on all interfaces, a specific interface, data direction, and QoS type.
	<b>Note</b> The Cisco CG-OS router only supports the <i>output</i> option for data direction.

This example shows how to display QoS statistics for a specific interface.

```
router# show policy-map interface cellular 3/1 type qos
```

This example shows how to display the output data direction for all interfaces on the Cisco CG-OS router.

```
router# show policy-map interface output
```

## Clearing Statistics

You can clear QoS statistics for all interfaces or a selected interface, data direction, or QoS type by using the **clear qos statistics** command.

Command	Purpose
<b>clear qos statistics</b> [ <b>interface</b> { <b>cellular</b>   <b>ethernet</b>   <b>wimax</b> } <i>slot/port</i> ] [ <b>output</b> ] [ <b>type qos</b> ]	Clears statistics and the configured policy maps on all interfaces or the specified interface, data direction, or QoS type.

This example shows how to clear QoS statistics for a specific interface.

```
router# clear qos statistics interface ethernet 2/1
```

This example shows how to clear all QoS statistics on the Cisco CG-OS router.

```
router# clear qos statistics type qos
```

## Configuration Example For Monitoring QoS Statistics

The following example shows how to display QoS statistics.

```
router(config)# show policy-map interface cellular 3/1 type qos
```

