



Legacy QoS Command Deprecation

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In Cisco IOS XE Release 2.6, to streamline Cisco IOS XE quality of service (QoS), certain commands have been hidden. Although these commands are available, the command-line interface (CLI) interactive help does not display them. This means that if you attempt to view a hidden command by entering a question mark (?) at the command line, the command does not appear. However, if you know the command syntax, you can enter it (the system accepts the command and returns a message stating that it is deprecated).

The functionality provided by these hidden commands has been replaced by similar functionality provided via the modular QoS CLI (MQC). The MQC is a set of a platform-independent commands for configuring QoS on Cisco platforms. This means that you should now provision QoS by defining traffic classes, creating traffic policies containing those classes, and attaching those policies to the desired interfaces.

In Cisco IOS XE Release 3.2S, these commands have been removed. This means that you must use the appropriate replacement MQC commands.

This document lists the hidden or removed commands and their replacement commands.

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- [Additional References, page 9](#)
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Finding Feature Information

Your software release may not support all the features documented in this module. For the latest feature information and caveats, see the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the Feature Information Table at the end of this document.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Information About Legacy QoS Command Deprecation

- [QoS Features Applied Using the MQC, page 2](#)



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- [Legacy Commands Being Hidden or Removed, page 2](#)

QoS Features Applied Using the MQC

The MQC structure lets you define a traffic class (also called a class map), create a traffic policy (also called a policy map), and attach the traffic policy to an interface. This comprises the following three high-level steps.

- 1 Define a traffic class by using the **class-map** command. A traffic class is used to classify traffic.
- 2 Create a traffic policy by using the **policy-map** command. A traffic policy contains a traffic class and one or more QoS features that will be applied to the traffic class. The QoS features in the traffic policy determine how to treat the classified traffic.
- 3 Attach the traffic policy to the interface by using the **service-policy** command.

Steps 1 and 3 do not involve legacy QoS hidden or removed commands, which means that they are not within the scope of this document. For more information about these two steps, see the "Applying QoS Features Using the MQC" module in the **Quality of Service Solutions Configuration Guide**.

Legacy Commands Being Hidden or Removed

The table below lists the commands that have been hidden or removed. The table also lists their replacement commands (or sequence of commands).

Table 1 Map of Hidden or Removed Commands to Their Replacement Commands

Hidden or Removed Commands	Replacement MQC Command Sequence
Configuring Bandwidth Allocation	
Commands <ul style="list-style-type: none"> • max-reserved-bandwidth 	Command Usage Router(config)# policy-map policy-map-name Router(config-pmap)# class class-default Router(config-pmap-c)# bandwidth { <i>bandwidth-in-kbps</i> remaining percent <i>percentage</i> percent <i>percentage</i> }
Command Usage Router(config)# interface type number Router(config-if)# max-reserved-bandwidth percentage	
Configuring Custom Queueing	

Hidden or Removed Commands	Replacement MQC Command Sequence
<p>Commands</p> <ul style="list-style-type: none"> custom-queue-list <p>Command Usage</p> <pre>Router(config)# interface type number Router(config-if)# custom-queue-list [list-number]</pre>	<p>Command Usage</p> <pre>Router(config)# policy-map policy-map-name Router(config-pmap)# class class-default Router(config-pmap-c)# bandwidth {bandwidth-in-kbps remaining percent percentage percent percentage}</pre>
Configuring Priority Queueing	
<p>Commands</p> <ul style="list-style-type: none"> ip rtp priority <p>Command Usage</p> <pre>Router(config)# interface type number Router(config-if)# ip rtp priority starting-port-number port-range bandwidth</pre>	<p>Command Usage</p> <pre>Router(config)# policy-map policy-map-name Router(config-pmap)# class class-name Router(config-pmap-c)# priority</pre>
Configuring Weighted Fair Queueing	
<p>Commands</p> <ul style="list-style-type: none"> fair-queue (WFQ) <p>Command Usage</p> <pre>Router(config)# interface type number Router(config-if)# fair-queue [congestive-discard-threshold [dynamic-queue-count reserved-queue-count]]</pre>	<p>Command Usage</p> <pre>Router(config)# policy-map policy-map-name Router(config-pmap)# class class-default Router(config-pmap-c)# fair-queue Router(config-pmap-c)# fair-queue dynamic-queues Router(config-pmap-c)# fair-queue queue-limit packets</pre>
Configuring the Threshold for Discarding DE Packets from a Switched PVC Traffic Shaping Queue	

Hidden or Removed Commands	Replacement MQC Command Sequence
<p>Commands</p> <ul style="list-style-type: none"> frame-relay congestion threshold de <p>Command Usage</p> <pre>Router(config)# map-class frame-relay map-class-name Router(config-map-class)# frame-relay congestion threshold de percentage</pre>	<p>Command Usage</p> <pre>Router(config)# policy-map policy-map-name1 Router(config-pmap)# class class-default Router(config-pmap-c)# random-detect discard-class- based Router(config-pmap-c)# random-detect discard-class discard-class min-threshold max-threshold Router(config-pmap-c)# exit Router(config-pmap)# exit Router(config)# policy-map shape Router(config-pmap)# class class-default Router(config-pmap-c)# shape average rate Router(config-pmap-c)# service-policy policy-map-name1 Router(config-pmap-c)# exit Router(config-pmap)# exit Router(config)# policy-map policy-map-name2 Router(config-pmap)# class class-name Router(config-pmap-c)# set discard-class discard-class</pre>

Configuring Frame Relay Custom Queueing for Virtual Circuits

Commands	Command Usage
<ul style="list-style-type: none"> frame-relay custom-queue-list <p>Command Usage</p> <pre>Router(config)# map-class frame-relay map-class-name Router(config-map-class)# frame-relay custom-queue- list list-number</pre>	<pre>Router(config)# policy-map policy-map-name Router(config-pmap)# class class-default Router(config-pmap-c)# bandwidth {bandwidth-in-kbps remaining percent percentage percent percentage}</pre>

Configuring Frame Relay ECN Bits Threshold

Commands	Command Usage
<ul style="list-style-type: none"> frame-relay congestion threshold ecn <p>Command Usage</p> <pre>Router(config)# map-class frame-relay map-class-name Router(config-map-class)# frame-relay congestion threshold ecn percentage</pre>	<pre>Router(config)# policy-map policy-map-name Router(config-pmap)# class class-default Router(config-pmap-c)# shape average rate Router(config-pmap-c)# set fr-fecn-ecn percent</pre>

Hidden or Removed Commands	Replacement MQC Command Sequence
Configuring Frame Relay Weighted Fair Queueing	
<p>Commands</p> <ul style="list-style-type: none"> frame-relay fair-queue <p>Command Usage</p> <pre>Router(config)# map-class frame-relay map-class-name Router(config-map-class)# frame-relay fair-queue [discard-threshold [dynamic-queue-count [reserved-queue-count [buffer-limit]]]]</pre>	<p>Command Usage</p> <pre>Router(config)# policy-map policy-map-name Router(config-pmap)# class class-default Router(config-pmap-c)# fair-queue Router(config-pmap-c)# fair-queue dynamic-queues Router(config-pmap-c)# fair-queue queue-limit packets</pre>
Configuring Frame Relay Priority Queueing on a PVC	
<p>Commands</p> <ul style="list-style-type: none"> frame-relay ip rtp priority <p>Command Usage</p> <pre>Router(config)# map-class frame-relay map-class-name Router(config-map-class)# frame-relay ip rtp priority starting-port-number port-range bandwidth</pre>	<p>Command Usage</p> <pre>Router(config)# policy-map policy-map-name Router(config-pmap)# class class-name Router(config-pmap-c)# priority bandwidth-in-kbps [burst-in-bytes]</pre>
Assigning a Priority Queue to Virtual Circuits Associated with a Map Class	

Hidden or Removed Commands	Replacement MQC Command Sequence
<p>Commands</p> <ul style="list-style-type: none"> frame-relay priority-group <p>Command Usage</p> <pre>Router(config)# map-class frame-relay map-class-name Router(config-map-class)# frame-relay priority-group group-number</pre>	<p>Command Usage</p> <pre>Router(config)# policy-map policy-map-name Router(config-pmap)# class class-default Router(config-pmap-c)# priority Router(config-pmap-c)# priority bandwidth-in-kbps [burst-in-bytes] Router(config-pmap-c)# priority percent percentage [burst-in-bytes] Router(config-pmap-c)# priority level level [percent percentage [burst-in-bytes]]</pre>
Configuring the Frame Relay Rate Adjustment to BECN	
<p>Commands</p> <ul style="list-style-type: none"> frame-relay adaptive-shaping (becn keyword) <p>Command Usage</p> <pre>Router(config)# map-class frame-relay map-class-name Router(config-map-class)# frame-relay adaptive- shaping becn</pre>	<p>Command Usage</p> <pre>Router(config)# policy-map policy-map-name Router(config-pmap)# class class-default Router(config-pmap-c)# shape average rate Router(config-pmap-c)# shape adaptive rate</pre>
Configuring the Frame Relay Rate Adjustment to ForeSight Messages	
<p>Commands</p> <ul style="list-style-type: none"> frame-relay adaptive-shaping (foresight keyword) <p>Command Usage</p> <pre>Router(config)# map-class frame-relay map-class-name Router(config)# frame-relay adaptive-shaping foresight</pre>	<p>Command Usage</p> <p>None (this functionality no longer exists).</p>
Enabling Frame Relay Traffic-Shaping FECNs as BECNs	

Hidden or Removed Commands**Commands**

- frame-relay fecn-adapt

Command Usage

```
Router(config)# map-class frame-relay
map-class-name
Router(config-map-class)# frame-relay fecn-adapt
```

Replacement MQC Command Sequence**Command Usage**

```
Router(config)# policy-map
policy-map-name
Router(config-pmap)# class class-default
Router(config-pmap-c)# shape average
rateRouter(config-pmap-c)# shape fecn-adapt
```

Configuring Frame Relay Traffic Shaping**Commands**

- frame-relay bc
- frame-relay be
- frame-relay cir

Command Usage

```
Router(config)# map-class frame-relay
map-class-name
Router(config-map-class)# frame-relay bc
{
  in
  | out
}
committed-burst-size-in-bits
Router(config-map-class)# frame-relay be
{
  in
  | out
} excess-
burst-size-in-bits
Router(config-map-class)# frame-relay cir
{
  in
  | out
}
bits-per-second
```

Command Usage

```
Router(config)# policy-map
policy-map-name
Router(config-pmap)# class class-default
Router(config-pmap-c)# shape average
rate
```

Configuring the Frame Relay Enhanced Local Management Interface**Commands**

- frame-relay qos-autosense

Command Usage

```
Router(config)# interface type numberRouter(config-
if)# no ip address
Router(config-if)# encapsulation frame-relay
Router(config-if)# frame-relay lmi-type
ansi
Router(config-if)# frame-relay traffic-shaping
Router(config-if)# frame-relay qos-autosense
```

Command Usage

None (this functionality no longer exists).

Displaying the Contents of Packets Inside a Queue for an Interface or VC

Hidden or Removed Commands**Replacement MQC Command Sequence****Commands**

- show queue

Command Usage

```
Router# show queue
interface
```

Command Usage

```
Router# show policy-map interface
```

Displaying Queueing Strategies**Commands**

- show queueing

Command Usage

```
Router# show queueing
```

Command Usage

```
Router# show policy-map interface
```

Displaying Weighted Random Early Detection (WRED) Information**Commands**

- show interfaces random-detect

Command Usage

```
Router# show interfaces
[
type number
] random-detect
```

Command Usage

```
Router# show policy-map interface
```

Displaying the Traffic-Shaping Configuration, Queueing, and Statistics

Hidden or Removed Commands	Replacement MQC Command Sequence
<p>Commands</p> <ul style="list-style-type: none"> show traffic-shape show traffic-shape queue show traffic-shape statistics <p>Command Usage</p> <pre>Router# show traffic-shape [interface-type interface-number] Router# show traffic-shape queue [interface-number [dlsi [dlsi-number]] Router# show traffic-shape statistics [interface-type interface-number]</pre>	<p>Command Usage</p> <pre>Router# show policy-map interface</pre>

Displaying Weighted Fair Queueing Information

Commands	Command Usage
<ul style="list-style-type: none"> show interfaces fair-queue <p>Command Usage</p> <pre>Router# show interfaces [interface-type interface-number] fair-queue</pre>	<pre>Router# show policy-map interface</pre>

Additional References

Related Documents

Related Topic	Document Title
Cisco IOS commands	Cisco IOS Master Commands List, All Releases
Defining traffic classes; attaching traffic policies to interfaces	"Applying QoS Features Using the MQC " module in the <i>Quality of Service Solutions Configuration Guide</i>

Related Topic	Document Title
Reference pages for QoS commands	<i>Cisco IOS Quality of Service Solutions Command Reference</i>
Reference pages for wide-area networking commands	<i>Cisco IOS Wide-Area Networking Command Reference</i>

Technical Assistance	
Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for Legacy QoS Command Deprecation

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

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Table 2 **Feature Information for Legacy QoS Command Deprecation**

Feature Name	Releases	Feature Information
Legacy QoS Command Deprecation: Hidden Commands	Cisco IOS XE Release 2.6	<p>To streamline Cisco IOS XE QoS, certain commands have been hidden, which means that if you try to view a hidden command by entering a question mark (?) at the command line, the command does not appear. However, if you know the command syntax, you can enter it. These commands will be removed in a future release.</p> <p>The functionality provided by these hidden commands is replaced by similar functionality from the modular QoS CLI (MQC), which is a set of a platform-independent commands for configuring QoS.</p> <p>The following commands were modified: custom-queue-list, fair-queue (WFQ), frame-relay adaptive-shaping (becn keyword), frame-relay adaptive-shaping (foresight keyword), frame-relay bc, frame-relay be, frame-relay cir, frame-relay congestion threshold de, frame-relay congestion threshold ecn, frame-relay custom-queue-list, frame-relay fair-queue, frame-relay fecn-adapt, frame-relay ip rtp priority, frame-relay priority-group, frame-relay qos-autosense, ip rtp priority, max-reserved-bandwidth, show interfaces fair-queue, show interfaces random-detect, show queue, show queueing, show traffic-shape, show traffic-shape queue, show traffic-shape statistics.</p>

Feature Name	Releases	Feature Information
Legacy QoS Command Deprecation: Removed Commands	Cisco IOS XE Release 3.2S	<p>The legacy QoS commands were removed. This means that you must use the appropriate replacement MQC commands.</p> <p>The following commands were removed: custom-queue-list, fair-queue (WFQ), frame-relay adaptive-shaping (becn keyword), frame-relay adaptive-shaping (foresight keyword), frame-relay bc, frame-relay be, frame-relay cir, frame-relay congestion threshold de, frame-relay congestion threshold ecn, frame-relay custom-queue-list, frame-relay fair-queue, frame-relay fecn-adapt, frame-relay ip rtp priority, frame-relay priority-group, frame-relay qos-autosense, ip rtp priority, max-reserved-bandwidth, show interfaces fair-queue, show interfaces random-detect, show queue, show queueing, show traffic-shape, show traffic-shape queue, show traffic-shape statistics.</p>

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