



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The functionality provided by these hidden commands has been replaced by similar functionality provided via the modular QoS CLI (MQC).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.

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 for Legacy QoS Command Deprecation” section on page 8](#).

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



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Contents

- [Information About Legacy QoS Command Deprecation, page 2](#)
- [Additional References, page 7](#)
- [Feature Information for Legacy QoS Command Deprecation, page 8](#)

Information About Legacy QoS Command Deprecation

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

[Table 1](#) 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 • max-reserved-bandwidth	Command Usage Router(config)# policy-map <i>policy-map-name</i> 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 <i>type number</i> Router(config-if)# max-reserved-bandwidth <i>percentage</i>	

Table 1 **Map of Hidden or Removed Commands to Their Replacement Commands (continued)**

Hidden or Removed Commands	Replacement MQC Command Sequence
Configuring Custom Queueing	
Commands custom-queue-list Command Usage Router(config)# interface <i>type number</i> Router(config-if)# custom-queue-list [<i>list-number</i>]	Command Usage Router(config)# policy-map <i>policy-map-name</i> 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> }
Configuring Priority Queueing	
Commands ip rtp priority Command Usage Router(config)# interface <i>type number</i> Router(config-if)# ip rtp priority <i>starting-port-number port-range bandwidth</i>	Command Usage Router(config)# policy-map <i>policy-map-name</i> Router(config-pmap)# class <i>class-name</i> Router(config-pmap-c)# priority
Configuring Weighted Fair Queueing	
Commands fair-queue (WFQ) Command Usage Router(config)# interface <i>type number</i> Router(config-if)# fair-queue [<i>congestive-discard-threshold</i> [<i>dynamic-queue-count</i> [<i>reserved-queue-count</i>]]]	Command Usage Router(config)# policy-map <i>policy-map-name</i> Router(config-pmap)# class class-default Router(config-pmap-c)# fair-queue Router(config-pmap-c)# fair-queue <i>dynamic-queues</i> Router(config-pmap-c)# fair-queue queue-limit <i>packets</i>
Configuring the Threshold for Discarding DE Packets from a Switched PVC Traffic Shaping Queue	
Commands frame-relay congestion threshold de Command Usage Router(config)# map-class frame-relay <i>map-class-name</i> Router(config-map-class)# frame-relay congestion threshold de <i>percentage</i>	Command Usage Router(config)# policy-map <i>policy-map-name1</i> Router(config-pmap)# class class-default Router(config-pmap-c)# random-detect discard-class-based Router(config-pmap-c)# random-detect discard-class <i>discard-class min-threshold max-threshold</i> 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 <i>rate</i> Router(config-pmap-c)# service-policy <i>policy-map-name1</i> Router(config-pmap-c)# exit Router(config-pmap)# exit Router(config)# policy-map <i>policy-map-name2</i> Router(config-pmap)# class <i>class-name</i> Router(config-pmap-c)# set discard-class <i>discard-class</i>

Table 1 **Map of Hidden or Removed Commands to Their Replacement Commands (continued)**

Hidden or Removed Commands	Replacement MQC Command Sequence
Configuring Frame Relay Custom Queueing for Virtual Circuits	
Commands frame-relay custom-queue-list Command Usage Router(config)# map-class frame-relay <i>map-class-name</i> Router(config-map-class)# frame-relay custom-queue-list <i>list-number</i>	Command Usage Router(config)# policy-map <i>policy-map-name</i> 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> }
Configuring Frame Relay ECN Bits Threshold	
Commands frame-relay congestion threshold ecn Command Usage Router(config)# map-class frame-relay <i>map-class-name</i> Router(config-map-class)# frame-relay congestion threshold ecn <i>percentage</i>	Command Usage Router(config)# policy-map <i>policy-map-name</i> Router(config-pmap)# class class-default Router(config-pmap-c)# shape average rate Router(config-pmap-c)# set fr-ecn-becn <i>percent</i>
Configuring Frame Relay Weighted Fair Queueing	
Commands frame-relay fair-queue Command Usage Router(config)# map-class frame-relay <i>map-class-name</i> Router(config-map-class)# frame-relay fair-queue [<i>discard-threshold</i> [<i>dynamic-queue-count</i> [<i>reserved-queue-count</i> [<i>buffer-limit</i>]]]]	Command Usage Router(config)# policy-map <i>policy-map-name</i> Router(config-pmap)# class class-default Router(config-pmap-c)# fair-queue Router(config-pmap-c)# fair-queue <i>dynamic-queues</i> Router(config-pmap-c)# fair-queue queue-limit <i>packets</i>
Configuring Frame Relay Priority Queueing on a PVC	
Commands frame-relay ip rtp priority Command Usage Router(config)# map-class frame-relay <i>map-class-name</i> Router(config-map-class)# frame-relay ip rtp priority <i>starting-port-number</i> <i>port-range</i> <i>bandwidth</i>	Command Usage Router(config)# policy-map <i>policy-map-name</i> Router(config-pmap)# class class-name Router(config-pmap-c)# priority <i>bandwidth-in-kbps</i> [<i>burst-in-bytes</i>]
Assigning a Priority Queue to Virtual Circuits Associated with a Map Class	
Commands frame-relay priority-group Command Usage Router(config)# map-class frame-relay <i>map-class-name</i> Router(config-map-class)# frame-relay priority-group <i>group-number</i>	Command Usage Router(config)# policy-map <i>policy-map-name</i> Router(config-pmap)# class class-default Router(config-pmap-c)# priority Router(config-pmap-c)# priority <i>bandwidth-in-kbps</i> [<i>burst-in-bytes</i>] Router(config-pmap-c)# priority percent <i>percentage</i> [<i>burst-in-bytes</i>] Router(config-pmap-c)# priority level <i>level</i> [percent <i>percentage</i> [<i>burst-in-bytes</i>]]

Table 1 **Map of Hidden or Removed Commands to Their Replacement Commands (continued)**

Hidden or Removed Commands	Replacement MQC Command Sequence
Configuring the Frame Relay Rate Adjustment to BECN	
Commands frame-relay adaptive-shaping (becn keyword) Command Usage Router(config)# map-class frame-relay <i>map-class-name</i> Router(config-map-class)# frame-relay adaptive-shaping becn	Command Usage Router(config)# policy-map <i>policy-map-name</i> Router(config-pmap)# class class-default Router(config-pmap-c)# shape average rate Router(config-pmap-c)# shape adaptive rate
Configuring the Frame Relay Rate Adjustment to ForeSight Messages	
Commands frame-relay adaptive-shaping (foresight keyword) Command Usage Router(config)# map-class frame-relay <i>map-class-name</i> Router(config)# frame-relay adaptive-shaping foresight	Command Usage None (this functionality no longer exists).
Enabling Frame Relay Traffic-Shaping FECNs as BECNs	
Commands frame-relay fecn-adapt Command Usage Router(config)# map-class frame-relay <i>map-class-name</i> Router(config-map-class)# frame-relay fecn-adapt	Command Usage Router(config)# policy-map <i>policy-map-name</i> Router(config-pmap)# class class-default Router(config-pmap-c)# shape average rate Router(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 <i>map-class-name</i> Router(config-map-class)# frame-relay bc {in out} <i>committed-burst-size-in-bits</i> Router(config-map-class)# frame-relay be {in out} <i>excess-burst-size-in-bits</i> Router(config-map-class)# frame-relay cir {in out} <i>bits-per-second</i>	Command Usage Router(config)# policy-map <i>policy-map-name</i> Router(config-pmap)# class class-default Router(config-pmap-c)# shape average rate

Table 1 **Map of Hidden or Removed Commands to Their Replacement Commands (continued)**

Hidden or Removed Commands	Replacement MQC Command Sequence
Configuring the Frame Relay Enhanced Local Management Interface	
Commands <code>frame-relay qos-autosense</code> Command Usage Router(config)# interface <i>type number</i> Router(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	
Commands <code>show queue</code> Command Usage Router# show queue <i>interface</i>	Command Usage Router# show policy-map <i>interface</i>
Displaying Queueing Strategies	
Commands <code>show queueing</code> Command Usage Router# show queueing	Command Usage Router# show policy-map <i>interface</i>
Displaying Weighted Random Early Detection (WRED) Information	
Commands <code>show interfaces random-detect</code> Command Usage Router# show interfaces [<i>type number</i>] random-detect	Command Usage Router# show policy-map <i>interface</i>
Displaying the Traffic-Shaping Configuration, Queueing, and Statistics	
Commands <code>show traffic-shape</code> <code>show traffic-shape queue</code> <code>show traffic-shape statistics</code> Command Usage Router# show traffic-shape [<i>interface-type interface-number</i>] Router# show traffic-shape queue [<i>interface-number</i> [<i>dlci dlci-number</i>]] Router# show traffic-shape statistics [<i>interface-type interface-number</i>]	Command Usage Router# show policy-map <i>interface</i>

Table 1 **Map of Hidden or Removed Commands to Their Replacement Commands (continued)**

Hidden or Removed Commands	Replacement MQC Command Sequence
Displaying Weighted Fair Queueing Information	
Commands show interfaces fair-queue Command Usage Router# show interfaces [<i>interface-type</i> <i>interface-number</i>] fair-queue	Command Usage Router# show policy-map interface

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>
Reference pages for QoS commands	Cisco IOS Quality of Service Solutions Command Reference
Reference pages for wide-area networking commands	Cisco IOS Wide-Area Networking Command Reference

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

Table 2 lists the release history for legacy QoS commands that have been deprecated.

Use Cisco Feature Navigator to find information about platform support and software image support. Cisco Feature Navigator enables you to determine which Cisco IOS XE software images support a specific software release, feature set, or platform. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.



Note

Table 2 lists only the Cisco IOS XE Software release that introduced support for a given feature in a given Cisco IOS XE Software release train. Unless noted otherwise, subsequent releases of that Cisco IOS XE Software release train also support that feature.

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	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. 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. The following sections provide information about this feature: • QoS Features Applied Using the MQC, page 2 • Legacy Commands Being Hidden or Removed, page 2 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.

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

Feature Name	Releases	Feature Information
Legacy QoS Command Deprecation: Removed Commands	Cisco IOS XE Release 3.2S	The legacy QoS commands were removed. This means that you must use the appropriate replacement MQC commands. The following sections provide information about this feature: • QoS Features Applied Using the MQC, page 2 • Legacy Commands Being Hidden or Removed, page 2 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.

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