New and Changed Information

This chapter provides release-specific information for each new and changed feature in the *Cisco Nexus 5000 Series NX-OS QoS Command Reference*. The latest version of this document is available at the following Cisco website:

http://www.cisco.com/en/US/products/ps9670/prod_command_reference_list.html

To check for additional information about this Cisco NX-OS Release, see the *Cisco Nexus 5000 Series Switch Release Notes* available at the following Cisco website:

http://www.cisco.com/en/US/products/ps9670/prod_release_notes_list.html

New and Changed Information for Cisco NX-OS Releases

This section includes the following topics:

New and Changed Information for Cisco NX-OS Release 5.2(1)N1(1)

Table 2 summarizes the new and changed features for Cisco NX-OS Release 5.2(1)N1(1) and tells you where they are documented.

Table 1 **New and Changed Information for Release 5.2(1)N1(1)**

Feature	Description	Where Documented
Encapsulated Remote Switched Port Analyzer (ERSPAN)	Added support for IPv6.	ip dscp (ERSPAN) ip prec (ERSPAN)
Traffic Classification	Added support for IPv6.	match dscp match precedence match protocol set dscp set precedence

New and Changed Information for Cisco NX-OS Release 5.1(3)N1(1)

Table 2 summarizes the new and changed features for Cisco NX-OS Release 5.1(3)N1(1) and tells you where they are documented.

Table 2 **New and Changed Information for Release 5.1(3)N1(1)**

Feature	Description	Where Documented
Encapsulated Remote Switched Port Analyzer (ERSPAN)	This feature was introduced.	mtu (ERSPAN) ip dscp (ERSPAN) ip prec (ERSPAN) ip ttl (ERSPAN)
Control Plane Policing (CoPP)	This feature was introduced.	class (control plane policy map) class class-default class-map type control-plane clear copp statistics control-plane police (policy map) policy-map type control-plane service-policy (control-plane) show class-map type control-plane show copp status show policy-map interface control-plane show policy-map type control-plane show running-config copp show startup-config copp

Table 2 ***New and Changed Information for Release 5.1(3)N1(1) (continued)***

Feature	Description	Where Documented
Virtual Ethernet (vEth) interface	Support for virtual Ethernet interface configuration was introduced. The following commands were added: • **priority (virtual Ethernet interface)** • **service-policy (virtual Ethernet interface)** • **shape (virtual Ethernet interface)** The following command was updated: • **untagged cos**	priority (virtual Ethernet interface) service-policy (virtual Ethernet interface) shape (virtual Ethernet interface) untagged cos
Maximum transmission unit (MTU) size change	The following commands were updated: • **mtu (interface)**	mtu (interface)
Priority flow control (PFC) mode enhancements	The PFC **off** mode was introduced. The following command was updated: • **priority-flow-control**	priority-flow-control

New and Changed Information for Cisco NX-OS Release 5.0(3)N2(1)

There are no new and changed features for Cisco NX-OS Release 5.0(3)N2(1).

New and Changed Information for Cisco NX-OS Release 5.0(3)N1(1)

Table 3 summarizes the new and changed features for Cisco NX-OS Release 5.0(3)N1(1) and tells you where they are documented.

Table 3 ***New and Changed Information for Release 5.0(3)N1(1)***

Feature	Description	Where Documented
Layer 3 interfaces	This feature was introduced. The following commands were updated to include support for Layer 3 interfaces and subinterfaces: • **untagged cos**	untagged cos
CoS for multicast queues	Added the **wrr-queue cos-map** command to map class of service (CoS) values to egress queues and the **show wrr-queue cos-map** command to display the mappings.	wrr-queue cos-map show wrr-queue cos-map

New and Changed Information for Cisco NX-OS Release 5.0(2)N2(1)

There are no new and changed features for Cisco NX-OS Release 5.0(2)N2(1).

New and Changed Information for Cisco NX-OS Release 5.0(2)N1(1)

Table 4 summarizes the new and changed features for Cisco NX-OS Release 5.0(2)N1(1) and tells you where they are documented.

Table 4   New and Changed Information for Release 5.0(2)N1(1)

Feature	Description	Where Documented
Support for **match-all** keyword	You can specify the criteria to match packets in QoS traffic.	class-map
Support for class-fcoe class map	You can manually add the class-fcoe class to policy maps on a Cisco Nexus 5548 switch.	class-map class-map type network-qos class-map type queuing policy-map (type qos) policy-map type queuing
QoS running system configuration	You can display information about the QoS running-system configuration.	show running-config ipqos show startup-config ipqos
No-drop class buffer	You can configure the ingress buffer size for the no-drop class.	pause no-drop buffer-size
QoS support on a Cisco Nexus 5548 switch	You can disable slow port pruning on multicast packets, or enable the virtual output queuing (VOQ) limit for unicast traffic.	hardware multicast disable-slow-port-pruning hardware unicast voq-limit set dscp set precedence
Support for qos policy and untagged cos on the same interface of a Cisco Nexus 5548 switch	You can configure a type qos policy map and untagged cos on the same interface.	policy-map (type qos) untagged cos