



Cisco NX-OS Release 7.0(3)I2(1)

Overview

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Cisco NX-OS Release 7.0(3)I2(1) is a converged release that runs on both Cisco Nexus 3000 and 9000 Series switches. However, some differences exist between platforms and previous releases.

This document covers the following differences:

- Nexus 9000 features that are not supported on the Nexus 3000 (see the [Limitations](#) section)
- Behavioral differences from previous Cisco Nexus 3000 Series releases (see the [Behavior Changes](#) section)
- CLI command changes from previous Cisco Nexus 3000 Series releases (see the [CLI Changes](#) section)

For a description of the new features supported on the Cisco Nexus 3000 Series switches, see the *Cisco Nexus 3000 Series NX-OS Release Notes, Release 7.0(3)I2(1)*.

For a description of the new features supported on the Cisco Nexus 9000 Series switches as well as a list of Nexus 3000 features that are not supported on the Nexus 9000, see the *Cisco Nexus 9000 Series NX-OS Release Notes, Release 7.0(3)I2(1)*.

Table 1. Online History Change

Date	Description
November 9, 2015	Created the Cisco NX-OS Release 7.0(3)I2(1) Overview doc.
November 9, 2015	Added new behavior change for the show interface ethernet <i>slot/port</i> transceiver command.
November 22, 2017	Added a note to specify the requirements while upgrading from Cisco NX-OS Release 6.0(2)U6(2) (CSCvb78728).

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Upgrade Matrix

This section provides information on upgrading Cisco Nexus 3000 and 3100 Series switches to Cisco NX-OS Release 7.0(3)I2(1).

Note: Beginning with this release, kickstart and system images are no longer used to install the Cisco NX-OS software image on Cisco Nexus 3000 and 3100 Series switches. Instead, a single binary image is used (for example, nxos.7.0.3.I2.1.bin). To install the software, you would use the install all nxos bootflash:nxos.7.0.3.I2.1.bin command.

From	To	Limitations	Recommended Procedure
6.0(2)U6(3)	7.0(3)I2(1)	None	<p>Install all and fast reload are the only upgrade methods supported because of a BIOS upgrade requirement.</p> <p>Warning: Make sure that you store the pre-Release, 6.0(2)U6(3)'s configuration file.</p> <p>For more information, see the Cisco Nexus 3000 Series NX-OS Software Upgrade and Downgrade Guide, Release 7.x.</p>
6.0(2)U6(2) or earlier	7.0(3)I2(1)	<p>First, upgrade to Cisco NX-OS Release 6.0(2)U6(3) or a later release.</p> <p>Note: A Cisco Nexus 3048 switch requires an additional step when you upgrade from a software version older than Cisco NX-OS 6.0(2)U6(2), otherwise the switch can fail to boot. You must first upgrade the switch to Cisco NX-OS Release 6.0(2)U6(2), then to Cisco NX-OS Release 6.0(2)U6(3), and finally to Cisco NX-OS Release 7.0(3)I2(1).</p>	<p>Install all and fast reload are the only upgrade methods supported because of a BIOS upgrade requirement.</p> <p>For more information, see the Cisco Nexus 3000 Series NX-OS Software Upgrade and Downgrade Guide, Release 7.x.</p>

Downgrading to Release 6.0(2)U6(3) from Release 7.0(3)I2(1)

Downgrading from Release 7.0(3)I2(1) to Release 6.0(2)U6(3) with configuration is not officially supported via install all. To downgrade to Release 6.0(2)U6(3) from Release 7.0(3)I2(1) with configuration, two reloads are required, one for boot into Release 6.0(2)U6(3) with write-erase and second for applying the new configuration. To avoid multiple reloads, the no-save option is supported during install all kickstart system <img.sys> in Release 7.0(3)I2(1). Use the CLI option no-save for the downgrade scenario to Release 6.0(2)U6(3) that skips the copy r s process that the installer does.

Complete the following steps to downgrade to Release 6.0(2)U6(3) from Release 7.0(3)I2(1) and to avoid two reloads:

1. Enter the command: write erase
2. Enter the command: write erase boot
3. Enter the command: copy <Release 6.0(2)U6(3) -config> startup-config
4. Enter the command: install all kickstart <img.kick> system <img.sys> no-save bios-force
5. The ASCII-replay of Release 6.0(2)U6(3) configuration brings the switch up with the desired configuration and Release 6.0(2)U6(3) image.

Warning: Make sure that you store the pre-Release, 6.0(2)U6(3)'s **configuration file**.

Limitations

The following Nexus 9000 features are not supported on the Cisco Nexus 3000 and 3100 Series switches in either N3K or N9K mode:

- Auto-Config
- FEX
- Multicast PIM Bidir
- Network address translation (NAT)
- Non-hierarchical routing mode
- NX-API REST
- Port profiles
- Port VLAN (PV) switching and routing support for VXLAN
- PTP (limitation only applies to Cisco Nexus 3100 Series switches)
- Q-in-Q support for VXLAN
- Secure login enhancements:
 - Ability to block login attempts and enforce a quiet period
 - Ability to restrict the maximum login sessions per user
 - Ability to restrict the password length
 - Ability to prompt the user to enter a password after entering the username
 - Ability to hide the shared secret used for RADIUS or TACACS+ authentication or accounting

- SHA256 hashing support for encrypted passwords
- SHA256 algorithm to verify operating system integrity
- Support for up to 4000 VLANs-in-VNI support for VXLAN
- VXLAN BGP eVPN control plane

Behavior Changes

This section lists the behavior changes for Cisco Nexus 3000 and 3100 Series switches running Cisco NX-OS Release 7.0(3)I2(1) in N3K mode as compared to earlier Cisco Nexus 3000/3100 Series releases. For additional information, see the 7.x configuration guides for the Cisco Nexus 3000 and 3100 Series switches.

Feature	Description	Where Documented
Access Control Entries (ACE)	ACE cannot be created with SMAC/DMAC. Note that this feature is for OpenFlow.	<i>Cisco Nexus 3000 Series NX-OS Security Configuration Guide</i> <i>Chapter 8: Configuring Access Control Lists</i>
Breakout configuration on QSFP ports	Configuring breakout on QSFP ports using speed 10000 adds interface breakout module number port port range map 10g-4x in the running-config output.	<i>Cisco Nexus 3000 Series NX-OS Interfaces Configuration Guide</i> <i>Chapter 2: Configuring Layer 2 Interfaces</i>
Breakout ports	The breakout ports are in administratively enabled state after the breakout of the ports into 4x10G mode or the breakin of the ports into 40G mode. On upgrade from the earlier releases, the configuration restored takes care of restoring the appropriate administrative state of the ports.	<i>Cisco Nexus 3000 Series NX-OS Interfaces Configuration Guide</i> <i>Chapter 2: Configuring Layer 2 Interfaces</i>
Inband and management interfaces	<p>Two network namespaces are now used for interface management: management and default. The management network namespace houses the eth1 link.</p> <p>Any standard Linux command can be used on these namespaces through the ip netns exec management <i>linux_command</i>.</p> <p>All inband and management interfaces to the Linux userspace are exposed as network interfaces. Also, network interfaces from Linux has changed.</p> <p>Earlier software releases of Nexus 3K had the following Ethernet interfaces from linux as seen from the bash-shell:</p> <ul style="list-style-type: none"> ■ eth1 (management) ■ eth3 (inband-low) 	<i>Cisco Nexus 3000 Series NX-OS Programmability Guide, Release 7.x</i> <i>Chapter 6: Kernel Stack</i>

Feature	Description	Where Documented
	<ul style="list-style-type: none"> ■ eth4(inband-hi) <p>Release 7.0(3)I2(1) is a combined image with N9K and N3k. This image consists of a combined supervisor image, and a pseudo line-card image on single RU TOR boxes like N3K. It has the following Ethernet interfaces as seen from the bash-shell:</p> <ul style="list-style-type: none"> ■ eth0 - The eth0 and eth6 interfaces are Ethernet Out-of-Band Channel (EOBC) interfaces on the supervisor card, which is a connection between all cards on the switch for management purposes such as system messages, software download, etc. Note that this is not the management port. On N3k we only have the eth0 interface. ■ eth1 - The management interface that gets connected to the management LAN. ■ eth2 - eth2 and eth3 are the embedded packet capture (EPC) interfaces. eth2 is connected to Sup0, and eth3 is connected to Sup1 (since we have redundant supervisors). Since N3K does not have a Sup1, eth2 is the active EPC interface. Completely decoded packets can be seen with ethanalyzer on these interfaces ■ ps-eobc - This is a pseudo interface that acts as a mux between eth0 and eth6, depending on which supervisor card is present. For the users of ps-eobc, this is the logical EOBC interface. All traffic from linecard system-messages, software download, etc., come here first then get copied onto eth0 and eth6 interfaces. On N3K we only have eth0 interface. ■ ps-inb - This is a pseudo interface that is a mux between eth2 and eth3, depending on which supervisor card is present. 	

Feature	Description	Where Documented
	<p>For users of ps-inb, this is the logical inband interface. Ethalyzer can be used directly with ps-inb, but it will not show you the packet decoded.</p> <ul style="list-style-type: none"> ■ veobc - This is the virtual Ethernet Out-of-Band Channel interface. This is a layer above ps-eobc and ps-inb needed for the FEX feature, where EOBC is a tunnel over inband. N3K does not use this, but the interface is created for common image management between N9k and N3k. ■ sflow - sflow packets come to this interface. 	
LACP min-links	The maximum value of the LACP min-links parameter was 32 and is now 16.	<p><i>Cisco Nexus 3000 Series NX-OS Interfaces Configuration Guide</i></p> <p><i>Chapter 4: Configuring Port Channels</i></p>
Layer 3 licensing	<p>The Cisco Nexus 3000 has a BASE license in N3K mode that provides:</p> <ul style="list-style-type: none"> ■ Static routing ■ RIPv2 ■ EIGRP stub ■ OSPFv2 (limited routes) ■ PIMv2 (sparse mode) <p>In N9K mode, the N9K licensing model is assumed, and it will not have this license. When a routing protocol gets enabled, syslog messages will be thrown.</p>	<i>Cisco Nexus 3000 Series NX-OS Licensing Guide</i>
Loopback interface	In the previous release, the loopback interface that is used to configure RP in multicast may or may not have the ip pim sparse-mode configuration. Beginning with Release 7.0(3)I2(1), the loopback interface which is used as an RP in multicast must have the ip pim sparse-mode configuration.	<i>Cisco Nexus 3000 Series NX-OS Multicast Configuration Guide</i>

Feature	Description	Where Documented
Password strength-check	<p>New password strength-check criteria that rejects simplistic passwords. This feature displays a message indicating the password is too simplistic/systematic.</p> <p>For example:</p> <pre>switch(config)# username xyz password nbv12345</pre> <p>password is weak</p> <p>Password should contain characters from at least three of the following classes: lower case letters, upper case letters, digits and special characters.</p> <pre>switch(config)# username xyz password Nbv12345</pre> <p>password is weak</p> <p>it is too simplistic/systematic</p> <pre>switch(config)#</pre>	<p><i>Cisco Nexus 3000 Series NX-OS System Management Configuration Guide</i></p> <p><i>Chapter 7: Configuring User Accounts and RBAC</i></p>
PIM	<p>The PIM_IGMP class-id is set on the port only when PIM is enabled. Since there is no need to punt IGMP packets to the CPU on the Layer 3 ports when PIM is not enabled, you have to configure feature pim and enable PIM on the port to get the packets on the copp-s-igmp queue.</p>	<p><i>Cisco Nexus 3000 Series NX-OS Security Configuration Guide</i></p> <p><i>Chapter 12: Configuring Control Plane Policing</i></p>
Priority levels	<p>Prior to Release 7.0(3)I2(1), only priority level 1 was supported in the pmap configuration. Starting with Release 7.0(3)I2(1), you can configure priority levels 2 and 3 in the pmap configuration. Note that 3000 series switches support only one priority level in Hardware. Release 7.0(3)I2(1) supports only the functionality for priority level 1 for Cisco Nexus 3000 Series platforms even though both priority level 2 and 3 are allowed in the pmap configuration in the Cisco Nexus 3000 Series platforms. Cisco Nexus 3100 Series platforms support priority level 1, 2, 3 with functionality perspective.</p>	<p><i>Cisco Nexus 3000 Series NX-OS Quality of Service Configuration Guide</i></p> <p><i>Chapter 3: Configuring QoS</i></p>

CLI Changes

Feature	Description	Where Documented
Syslog message (Hash collision)	<p>A new syslog message has been added that includes the MAC collision events and the other details such as the source MAC address, the VLAN, and the internal port number information.</p> <p>Example: 2015 Aug 26 06:20:37 switch%-SLOT1-5-BCM_L2_HASH_COLLISION: L2 ENTRY unit=0 mac=00:11:11:f7:46:40 vlan=1998 port=0x0800082e</p>	<p><i>Cisco Nexus 3000 Series NX-OS System Management Configuration Guide</i></p> <p><i>Chapter 12: Configuring System Message Logging</i></p>
Syslog message (Limit reached)	<p>The following syslog message appears when reloading the vPC switch.</p> <p>MFDM-2-MFDM_NVE_DSG_VP_LIMIT_REACHED</p> <p>The issue is seen on the peer vPC switch</p>	<p><i>Cisco Nexus 3000 Series NX-OS Interfaces Configuration Guide</i></p> <p><i>Chapter 6: Configuring VXLANs</i></p>
Tap aggregation	<p>The priority, set-vlan, and strip-vlan options are no longer available for the tap aggregation access-list.</p>	<p><i>Cisco Nexus 3000 Series NX-OS System Management Configuration Guide</i></p> <p><i>Chapter 21: Configuring Tap Aggregation and MPLS Stripping</i></p>
VXLAN multicast encapsulation path.	<p>The VXLAN multicast encapsulation path has duplicate members of the vPC peer-link on vPC peers. This design has been adopted to support anycast RP and service orphan traffic. For all the access side traffic, now, two copies of a packet are sent over the vPC peer-link on the multicast path: one native and one VXLAN header encapsulated.</p>	<p><i>Cisco Nexus 3000 Series NX-OS Interfaces Configuration Guide</i></p> <p><i>Chapter 6: Configuring VXLANs</i></p>

CLI Changes

This section lists the CLI command changes for Cisco Nexus 3000 and 3100 Series switches running Cisco NX-OS Release 7.0(3)I2(1) in N3K mode as compared to earlier Cisco Nexus 3000/3100 Series releases. For additional information, see the 7.x configuration guides and command references for the Cisco Nexus 3000 and 3100 Series switches.

Command	Description	Where Documented
boot nxos <single_image_binary>	<p>A single image binary is now used for booting N3000 platforms. Kickstart and system images are no longer used.</p> <p>Example: boot nxos <single_image_binary></p>	<p><i>Cisco Nexus 3000 Series NX-OS Fundamentals Command Reference</i></p> <p><i>Section: boot</i></p>

CLI Changes

class type network-qos class-default	This command displays a new switch prompt.		Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference Section: class type network-qos
	Cisco NX-OS Release 7.0(3)I2(1)	Previous Release	
	switch (config)# class-map type network-qos class1 switch(config-cmap-nqos)#	switch(config)# class-map type network-qos class1^M^M switch(config-cmap-nq)#	
clear forwarding mpls stats	This command does not clear o/p stats.		Cisco Nexus 3000 Series NX-OS System Management Configuration Guide Chapter 22: Configuring MPLS Static
clear ip igmp snooping	This command has these new commands: <ul style="list-style-type: none"> ■ access-group - IGMP access-group ■ groups - Clear snooped groups ■ proxy - Clear IGMP snooping proxy ■ report-policy - IGMP Report Policy 		Cisco Nexus 3000 Series NX-OS Multicast Routing Command Reference
clear sflow statistics	This command no longer clears the Total Samples and Total Packets fields. <ul style="list-style-type: none"> ■ To clear Total Samples clear hardware rate-limiter sflow ■ To clear Total Packets: clear counters interface all 		Cisco Nexus 3000 Series NX-OS System Management Command Reference Section: clear sflow statistics
clock protocol	This command will no longer set the clock. To change the clock manually, see the <i>Cisco Nexus 3000 Series NX-OS Fundamentals Configuration Guide</i> .		Cisco Nexus 3000 Series NX-OS System Management Command Reference Section: clock protocol
debug ip igmp snooping	The mfdm and disable-noquerier-timer options have been removed. In Release 7.0(3)I2(1), there is no equivalent to the disable-noquerier-timer option, but show ip igmp snooping event-history mfdm is the new way to get the mfdm logs		Not documented
ethalyzer local interface	This command has changed as demonstrated below.		Not documented
	Cisco NX-OS Release 7.0(3)I2(1)	Previous Release	

	<p>C2# ethalyzer local interface ?</p> <p>inband Inband/Outband interface</p> <p>mgmt Management interface</p>	<p>C1# ethalyzer local interface ?</p> <p>inbound-hi Inbound(high priority) interface</p> <p>inbound-low Inbound(low priority) interface</p> <p>mgmt Management interface</p>	
fast-reload	<p>A single image binary is now used for booting N3000 platforms. Kickstart and system images are no longer used.</p> <p>Example: fast-reload nxos <single_image_binary></p>		<p><i>Cisco Nexus 3000 Series NX-OS Fundamentals Command Reference</i></p> <p>Section: fast-reload</p>
hardware ethernet multicast reliable	This command is not supported in this release.		Not documented
hardware multicast disable-slow-port-pruning	This command is not supported in this release.		Not documented
hardware profile multicast slow-receiver	This command is not supported in this release.		Not documented
hardware profile multicast soak-interval	This command was removed.		<p><i>Cisco Nexus 3000 Series NX-OS Multicast Routing Command Reference</i></p> <p>Chapter: Multicast Routing Commands</p> <p>Section: hardware profile multicast soak-interval</p>
ip igmp snooping	<p>This command has two new sub-options:</p> <ul style="list-style-type: none"> ■ group-timeout - Configures the group membership timeout in all VLANs/BDS. ■ max-gq-miss - Configures the general query miss count. 		<p><i>Cisco Nexus 3000 Series NX-OS Multicast Routing Command Reference</i></p> <p>Chapter: Multicast Routing Commands</p> <p>Section: ig igmp snooping</p>
ip igmp snooping optimised-multicast-flood	This command was removed.		<p><i>Cisco Nexus 3000 Series NX-OS Multicast Routing Command Reference</i></p> <p>Chapter: Multicast</p>

		<i>Routing Commands</i> Section: <i>ig igmp snooping optimised-multicast-flood</i>
lacp rate fast	This command is now only allowed with member interfaces in an admin DOWN state.	<i>Cisco Nexus 3000 Series NX-OS Interfaces Command Reference</i> Section: <i>lacp rate fast</i>
match ip address prefix-list	This command now gives the message “invalid command.”	<i>Cisco Nexus 3000 Series NX-OS Unicast Routing Command Reference</i> Section: <i>match ip address</i>
no switchport	This command now gets an error on the breakout interface.	<i>Cisco Nexus 3000 Series NX-OS Interfaces Command Reference</i> Section: <i>no switchport</i>
policy-map type network-qos	This command displays a new switch prompt.	
	Cisco NX-OS Release 7.0(3)I2(1)	Previous Release
	switch(config)# policy-map type network-qos nq switch (config-pmap-nqos)#	switch(config)# policy-map type network-qos nq switch (config-pmap-nq)#
ptp announce timeout ?	The range value for announce timeout has changed to <2-4>.	
	Cisco NX-OS Release 7.0(3)I2(1)	Previous Release
	<2-4> Val	<2-10> Val
		<i>Cisco Nexus 3000 Series NX-OS System Management Command Reference</i> Section: <i>ptp announce</i>
ptp sync interval ?	The range value for sync interval has changed to <-3-1> log seconds.	
	Cisco NX-OS Release 7.0(3)I2(1)	Previous Release
	<-3-1> Log seconds	<-6-1> Log seconds
		<i>Cisco Nexus 3000 Series NX-OS System Management Command Reference</i> Section: <i>ptp sync interval</i>
show class-map type network-qos	The empty lines between each group have been removed from the output of this command.	
	Cisco NX-OS Release 7.0(3)I2(1)	Previous Release
	switch(config)# show class-map type network-qos	switch(config)# show class-map type network-qos
		<i>Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference</i> Section: <i>show class-</i>

	<pre>Type network-qos class-maps ===== = class-map type network-qos cn_1 match qos-group 1 class-map type network-qos cn_2 match qos-group 2 class-map type network-qos cn_3 match qos-group 3 class-map type network-qos cn_4 match qos-group 4 class-map type network-qos cn_5 match qos-group 5 class-map type network-qos cn_6 match qos-group 6 class-map type network-qos cn_7 match qos-group 7 class-map type network-qos class-default match qos-group 0 switch(config)#</pre>	<pre>Type network-qos class-maps ===== === class-map type network-qos cn_1 match qos-group 1 class-map type network-qos cn_2 match qos-group 2 class-map type network-qos cn_3 match qos-group 3 class-map type network-qos cn_4 match qos-group 4 class-map type network-qos cn_5 match qos-group 5 class-map type network-qos cn_6 match qos-group 6 class-map type network-qos cn_7 match qos-group 7 class-map type network-qos class-default</pre>	<pre>map type network-qos</pre>
--	---	---	---------------------------------

		match qos-group 0 switch(config)#	
show class-map type qos	The empty lines between each group have been removed from the output of this command.		<i>Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference</i> Section: <i>show class-map type qos</i>
	Cisco NX-OS Release 7.0(3)I2(1) switch(config)# show class-map type qos Type qos class-maps ===== class-map type qos match-all cqos1 match cos 1 class-map type qos match-all cqos6 match cos 6 class-map type qos match-any class-default match any	Previous Release switch(config)# show class-map type qos Type qos class-maps ===== class-map type qos match-all cq1 match cos 1 class-map type qos match-all cq2 match cos 2 class-map type qos match-all cq3 match cos 3 class-map type qos match-all cq4 match cos 4 class-map type qos match-all cq5 match cos 5 class-map type qos match-all cq6 match cos 6 class-map type qos match-all cl_acl <--Output truncated--> switch(config)#	
show environment fan detail	The output for this command has changed.		<i>Cisco Nexus 3000 Series NX-OS Fundamentals Command Reference</i> Section: <i>show environment</i>
	Cisco NX-OS Release 7.0(3)I2(1) switch# show environment fan detail ----- ----- Mod Total Fabric Utilization Bandwidth Ingress % Egress % ----- ----- Fan:	Previous Release switch# show environment fan detail Fan: ----- ----- Module Fan Airflow Speed(%) Speed(RPM)	

	<pre> ----- ----- ----- Fan Model Hw Direction Status ----- ----- Fan1(sys_fan1) N3K-C3132-FAN 0.0 front-to-back Ok Fan2(sys_fan2) N3K-C3132-FAN 0.0 front-to-back Ok Fan3(sys_fan3) N3K-C3132-FAN 0.0 front-to-back Ok Fan4(sys_fan4) N3K-C3132-FAN 0.0 front-to-back Ok Fan_in_PS1 N2200-PAC-400W -- front-to-back Ok Fan_in_PS2 N2200-PAC-400W -- front-to-back Ok Fan Zone Speed: Zone 1: 0x33 Fan Air Filter : NotSupported Fan: ----- ----- ----- Fan Tray Fan Fan Direction Speed(%) Speed(RPM) ----- ----- Fan1(sys_fan1) fan1 front-to-back 41 6398 Fan1(sys_fan1) fan2 front-to-back 42 4843 Fan2(sys_fan2) fan1 front-to-back 41 6405 Fan2(sys_fan2) fan2 front-to-back 40 4703 Fan3(sys_fan3) fan1 front-to-back 40 6271 Fan3(sys_fan3) fan2 front-to-back 41 4774 Fan4(sys_fan4) fan1 front-to-back 41 6405 Fan4(sys_fan4) fan2 front-to-back 41 4808 switch # </pre>	<pre> Direction ----- ----- 1 1 Front-to-Back 50 6783 1 2 Front-to-Back 50 5056 2 1 Front-to-Back 50 6699 2 2 Front-to-Back 50 5037 3 1 Front-to-Back 50 6741 3 2 Front-to-Back 50 5103 4 1 Front-to-Back 50 6750 4 2 Front-to-Back 50 5009 Power Supply: ----- --- Module Airflow Configured Direction Speed (%) ----- --- 1 Front-to-Back 9000 2 Fail/Shutdown -- switch# </pre>					
<pre>show hardware internal buffer info pkt-stats</pre>	<p>The output of this command has been updated.</p> <table border="1"> <tr> <td data-bbox="386 1759 812 1797">Cisco NX-OS Release 7.0(3)I2(1)</td> <td data-bbox="812 1759 1253 1797">Previous Release</td> </tr> <tr> <td data-bbox="386 1797 812 1883">switch# show hardware internal buffer info pkt-stats</td> <td data-bbox="812 1797 1253 1883">switch# show hardware internal buffer info pkt-stats</td> </tr> </table>		Cisco NX-OS Release 7.0(3)I2(1)	Previous Release	switch# show hardware internal buffer info pkt-stats	switch# show hardware internal buffer info pkt-stats	<p><i>Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference</i></p> <p>Section: <i>show</i></p>
Cisco NX-OS Release 7.0(3)I2(1)	Previous Release						
switch# show hardware internal buffer info pkt-stats	switch# show hardware internal buffer info pkt-stats						

	<pre> slot 1 ===== INSTANCE: 0 ===== .----- ----- . Output Shared Service Pool Buffer Utilization (in cells) SP-0 SP-1 SP-2 SP-3 .----- ----- . Total Instant Usage 0 0 0 0 Remaining Instant Usage 53760 2048 0 0 Peak/Max Cells Used 44 44 0 0 Switch Cell Count 53760 2048 0 0 .----- ----- . </pre>	<pre> ----- ----- Total Instant Usage 0 Remaining Instant Usage 46080 Max Cell Usage 2 Switch Cell Count 46080 ----- ----- </pre>	<p><i>hardware internal buffer info pkt-stats</i></p>
<p>show hardware internal buffer info pkt-stats input</p>	<p>The output of this command has been updated.</p>		<p><i>Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference</i></p> <p>Section: <i>show hardware internal buffer info pkt-stats input</i></p>
<p>Cisco NX-OS Release 7.0(3)I2(1)</p>	<p>Previous Release</p>		
<pre> switch# show hardware internal buffer info pkt-stats input slot 1 ===== INSTANCE: 0 ===== .----- ----- . . Input Shared Service Pool Buffer Utilization (in cells) . SP-0 SP-1 SP-2 SP-3 .----- </pre>	<pre> switch# show hardware internal buffer info pkt-stats input Input Shared Service Pool Buffer utilization (in cells) SP-0 SP-1 SP-2 SP-3 ----- </pre>		

	<pre> ----- ----- . Total Instant Usage 0 0 0 0 Remaining Instant Usage 54283 2048 0 0 Peak/Max Cells Used 0 0 0 0 Switch Cells Count 54283 2048 0 0 </pre>	<pre> Total Instant Usage 0 0 0 0 Remaining Instant Usage 41735 0 0 0 Peak Cell Usage 32248 0 0 0 Switch Cell Count 41735 0 0 0 ----- ----- Per Port Per PG: Input Instant Buffer utilization Each line displays the number of cells utilized for a given port for each pg One cell represents approximately 208 bytes -----+-----+ ---+-----+-----+ -----+-----+-----+ Port/Buffer Stat PG0 PG1 PG2 PG3 PG4 PG5 PG6 PG7 -----+-----+ ---+-----+-----+ -----+-----+-----+ </pre>	
<p>show hardware internal buffer info pkt-stats peak</p>	<p>The output of this command has been updated.</p> <pre> Cisco NX-OS Release 7.0(3)I2(1) switch# show hardware internal buffer info pkt-stats peak slot 1 ===== INSTANCE: 0 ===== </pre>	<p>Previous Release</p> <pre> switch# show hardware internal buffer info pkt-stats peak slot 1 ----- ----- Total Instant Usage 0 Remaining Instant </pre>	<p><i>Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference</i></p> <p>Section: <i>pkt-stats peak</i></p>

<pre> .----- ----- ----- . Output Shared Service Pool Buffer Utilization (in cells) SP-0 SP-1 SP-2 SP-3 .----- ----- ----- . Total Instant Usage 0 0 0 0 Remaining Instant Usage 53760 2048 0 0 Peak/Max Cells Used 44 44 0 0 Switch Cell Count 53760 2048 0 0 .----- ----- ----- . .----- ----- ----- . . Peak Buffer utilization per queue per port . . Each line displays the number of cells utilized for a given . . port for each OoS queue . . One cell represents approximately 208 bytes . .-----{}-----{}-----{}-- -----{}-----{}-----+ . .ASIC Port Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0 CPU SPAN . .-----{}-----{}-----{}-- -----{}-----{}-----+ . 10 UC-> 0 0 0 0 0 0 0 0 2 0 MC-> 0 0 0 0 0 0 0 0 0 0 12 UC-> 0 0 0 0 0 0 0 0 2 0 </pre>	<pre> Usage 61440 Max Cell Usage 32256 Switch Cell Count 61440 ----- ----- ----- </pre>	
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	MC-> 0 0 0 0 0 0 0 0 0 0		
show hardware internal interface indiscard-stats	This command can only be executed after running attach module <module number>		<p><i>Cisco Nexus 3000 Series NX-OS Layer 2 Switching Command Reference</i></p> <p>Section: <i>show hardware internal interface indiscard-stats</i></p>
show hardware profile tcam region	The output of this command has changed significantly		<p><i>Cisco Nexus 3000 Series NX-OS Security Command Reference</i></p> <p>Section: <i>show hardware profile tcam region</i></p>
	Cisco NX-OS Release 7.0(3)I2(1)	Previous Release	
	<pre>switch# show hardware profile tcam region sup size = 128 vacl size = 512 ifacl size = 384 qos size = 256 span size = 128 racl size = 512 e-racl size = 512 e-vacl size = 512 qoslbl size = 256 ipsg size = 256 arpacl size = 0 ipv6-racl size = 0 ipv6-e-racl size = 0 ipv6-sup size = 256 ipv6-qos size = 0 e-qos size = 0 pbr size = 0 ipv6-pbr size = 0 e-ipv6-qos size = 0 e-mac-qos size = 0</pre>	<pre>switch# show hardware profile tcam region sup size = 128 vacl size = 256 ifacl size = 384 qos size = 256 rbacl size = 0 span size = 128 racl size = 256 e-racl size = 512 e-vacl size = 512 qoslbl size = 512 arpacl size = 0</pre>	

	e-qos-lite size = 0 switch#		
show interface ethernet	Unknown unicast blocked, Unknown multicast blocked, and Mac learning outputs have been removed from this command.		<i>Cisco Nexus 3000 Series NX-OS Interfaces Command Reference</i> Section: <i>show interface ethernet</i>
show interface ethernet Ethslot/port transceiver	This command has been removed. The show interface ethernet slot/port transceiver is used instead.		<i>Cisco Nexus 3000 Series NX-OS Interfaces Configuration Guide</i> Chapter 2: <i>Configuring Layer 2 Interfaces</i>
show interface ethernet slot/port transceiver	The output of this command has been updated.		<i>Cisco Nexus 3000 Series NX-OS Interfaces Configuration Guide</i> Chapter 2: <i>Configuring Layer 2 Interfaces</i>
	Cisco NX-OS Release 7.0(3)I2(1)	Previous Release	
	switch(config)# show interface ethernet 1/11 transceiver Ethernet1/11 transceiver is present type is QSFP-40G-CR4 name is CISCO part number is L45593-D118-B50 revision is 01 serial number is LCC1748G0T3-B nominal bitrate is 10300 MBit/sec per channel Link length supported for copper is 5 m cisco id is 13 cisco extended id number is 16	switch(config)# show interface ethernet 1/49 transceiver Ethernet1/49 transceiver is present type is QSFP-40G-CR4(Passive) name is CISCO part number is L45593-D118-B50 revision is 01 serial number is LCC1748G0T3-A nominal bitrate is 10300 MBit/sec Link length supported for copper is 5 m cisco id is -- cisco extended id number is 16	
show interface priority-flow-	The output of this command has been updated.		<i>Cisco Nexus 3000 Series NX-OS Quality</i>
	Cisco NX-OS Release 7.0(3)I2(1)	Previous Release	

<p>control</p>	<pre>switch(config)# show interface priority-flow-control slot 1 ===== ===== ===== ===== ===== Port Mode Oper(VL bmap) RxPPP TxPPP ===== ===== ===== Ethernet1/1 Auto Off 0 0 Ethernet1/2 Auto Off 0 0 Ethernet1/3 Auto Off 0 0 Ethernet1/4 Auto Off 0 0 Ethernet1/5 Auto Off 0 0 Ethernet1/6 Auto Off 0 0 Ethernet1/7 Auto Off 0 0 Ethernet1/8 Auto Off 0 0 Ethernet1/9 Auto Off 0 0 Ethernet1/10 Auto Off 0 0 Ethernet1/11 Auto Off 0 0 Ethernet1/12 Auto Off 0 0 Ethernet1/13 Auto Off 0 0 Ethernet1/14 Auto Off 0 0 Ethernet1/15 Auto Off 0 0 Ethernet1/16 Auto Off 0 0 Ethernet1/17 Auto Off 0 0 Ethernet1/18 Auto Off 0 0 Ethernet1/19 Auto Off 0 0 Ethernet1/20 Auto Off 0 0 Ethernet1/21 Auto Off 0 0</pre>	<pre>switch(config)# show interface priority-flow-control ===== ===== ===== Port Mode Oper(VL bmap) RxPPP TxPPP ===== ===== ===== Ethernet1/15 Auto Off 0 0 Ethernet1/15 Auto Off 0 0 Ethernet1/15 Auto Off 0 0 Ethernet1/15 Auto Off 0 0 Ethernet1/24 Auto Off 0 0 Ethernet1/25 Auto Off 0 0 Ethernet1/27 Auto Off 0 0 Ethernet1/32 On On (8) 0 0</pre>	<p><i>of Service Command Reference</i></p> <p>Section: <i>show interface priority-flow-control</i></p>
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	<pre> Ethernet1/22 Auto Off 0 0 Ethernet1/23 Auto Off 0 0 Ethernet1/24 Auto Off 0 0 Ethernet1/25 Auto Off 0 0 Ethernet1/26 Auto Off 0 0 Ethernet1/27 Auto Off 0 0 Ethernet1/28 Auto Off 0 0 Ethernet1/29 Auto Off 0 0 Ethernet1/30 Auto Off 0 0 Ethernet1/31 Auto Off 0 0 Ethernet1/32 Auto Off 0 0 </pre>		
<p>show interface priority-flow-control detail</p>	<p>A new line was added to the output for this command.</p>		<p><i>Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference</i></p> <p>Section: <i>show interface priority-flow-control detail</i></p>
	<p>Cisco NX-OS Release 7.0(3)I2(1)</p> <pre> switch(config)# show interface priority-flow-control detail slot 1 ===== Ethernet1/1 Admin Mode: Auto Oper Mode: Off VL bitmap: Total Rx PFC Frames: 0 Total Tx PFC Frames: 0 ----- ----- ----- ----- Priority0 Priority1 Priorit ty2 Priority3 Priority4 Priorit y5 Priority6 Priority7 </pre>	<p>Previous Release</p> <pre> switch(config)# show interface priority-flow-control detail Ethernet1/1: Admin Mode: On Oper Mode: Off VL bitmap: Total Rx PFC Frames: 0 Total Tx PFC Frames: 0 ----- ----- ----- ----- Priority0 Priority1 Priorit y2 Priority3 Priority4 Priority 5 Priority6 Priority7 ----- ----- ----- ----- Rx 0 0 0 0 0 0 0 0 </pre>	

	<pre> ----- ----- ----- ----- ----- Rx 0 0 0 0 0 0 0 0 ----- ----- ----- ----- ----- Tx 0 0 0 0 0 0 0 0 ----- ----- ----- ----- ----- Ethernet1/2 </pre>	<pre> ----- ----- ----- ----- ----- Tx 0 0 0 0 0 0 0 0 ----- Ethernet1/2: </pre>	
<p>show ip pim rp</p>	<p>In earlier releases, the PIM-process is always running and show ip pim rp is handled properly. Beginning in Release 7.0(3)I2(1), if no interfaces are PIM-enabled, this command will throw “process is not running” errors.</p>	<p><i>Cisco Nexus 3000 Series NX-OS Multicast Routing Command Reference</i></p> <p>Section: show ip pim rp</p>	
<p>show logging onboard</p>	<p>While the induced errors are corrected on the switches, the log messages that notify the corrections stop after hitting a threshold (usually after 15 or 19 corrections). Also, an extra message gets printed when the parity error is injected.</p>	<p><i>Cisco Nexus 3000 Series NX-OS System Management Command Reference</i></p> <p>Section: show logging onboard</p>	
<p>show monitor session</p>	<ul style="list-style-type: none"> ■ The option for filter VLANs has been removed, and the information displayed now includes rx, tx, and both for the source VLANs. ■ The number of TCAM entries available for ACL SPAN has been reduced by 6 entries in Release 7.0(3)I2(1). 	<p><i>Cisco Nexus 3000 Series NX-OS System Management Command Reference</i></p> <p>Section: show monitor session</p>	
<p>show ntp session status</p>	<p>This command does not show the last action time stamp, the last action, the last action result, and the last action failure reason.</p>	<p><i>Cisco Nexus 3000 Series NX-OS Interfaces Configuration Guide</i></p> <p>Section: show ntp session status</p>	
<p>show platform afm</p>	<p>This command is being deprecated. The following two commands can be</p>	<p><i>Cisco Nexus 3000</i></p>	

<p>info tcam</p>	<p>used instead to check for AFM/TCAM region outputs:</p> <ul style="list-style-type: none"> ■ show hardware profile tcam region ■ show hardware access-list resource utilization. 	<p><i>Series NX-OS Security Command Reference</i></p> <p>Section: <i>show platform afm info tcam</i></p>				
<p>show policy-map</p>	<table border="1"> <thead> <tr> <th data-bbox="391 359 813 401">Cisco NX-OS Release 7.0(3)I2(1)</th> <th data-bbox="818 359 1252 401">Previous Release</th> </tr> </thead> <tbody> <tr> <td data-bbox="391 407 813 1869"> <pre>switch# show policy-map Type qos policy-maps ===== policy-map type qos pqos class type qos cqos1 set qos-group 1 class type qos cqos6 set qos-group 6 class type qos class-default set qos-group 0 policy-map type qos default-in-policy class type qos class-default set qos-group 0 Type queuing policy-maps ===== policy-map type queuing default-in-policy class type queuing class-default bandwidth percent 100 policy-map type queuing default-out-policy class type queuing class-default bandwidth percent 100 Type network-qos policy-maps ===== policy-map type network-qos</pre> </td> <td data-bbox="818 407 1252 1869"> <pre>switch# show policy-map Type qos policy-maps ===== policy-map type qos pqos class type qos cqos1 set qos-group 1 class type qos cqos6 set qos-group 6 class type qos class-default set qos-group 0 policy-map type qos default-in-policy class type qos class-default set qos-group 0 Type queuing policy-maps ===== policy-map type queuing pqu class type queuing cqu1 bandwidth percent 10 class type queuing cqu6 bandwidth percent 20 class type queuing class-default bandwidth percent 70 policy-map type queuing default-out-policy class type queuing class-default bandwidth percent 100</pre> </td> </tr> </tbody> </table>	Cisco NX-OS Release 7.0(3)I2(1)	Previous Release	<pre>switch# show policy-map Type qos policy-maps ===== policy-map type qos pqos class type qos cqos1 set qos-group 1 class type qos cqos6 set qos-group 6 class type qos class-default set qos-group 0 policy-map type qos default-in-policy class type qos class-default set qos-group 0 Type queuing policy-maps ===== policy-map type queuing default-in-policy class type queuing class-default bandwidth percent 100 policy-map type queuing default-out-policy class type queuing class-default bandwidth percent 100 Type network-qos policy-maps ===== policy-map type network-qos</pre>	<pre>switch# show policy-map Type qos policy-maps ===== policy-map type qos pqos class type qos cqos1 set qos-group 1 class type qos cqos6 set qos-group 6 class type qos class-default set qos-group 0 policy-map type qos default-in-policy class type qos class-default set qos-group 0 Type queuing policy-maps ===== policy-map type queuing pqu class type queuing cqu1 bandwidth percent 10 class type queuing cqu6 bandwidth percent 20 class type queuing class-default bandwidth percent 70 policy-map type queuing default-out-policy class type queuing class-default bandwidth percent 100</pre>	<p><i>Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference</i></p> <p>Section: <i>show policy-map</i></p>
Cisco NX-OS Release 7.0(3)I2(1)	Previous Release					
<pre>switch# show policy-map Type qos policy-maps ===== policy-map type qos pqos class type qos cqos1 set qos-group 1 class type qos cqos6 set qos-group 6 class type qos class-default set qos-group 0 policy-map type qos default-in-policy class type qos class-default set qos-group 0 Type queuing policy-maps ===== policy-map type queuing default-in-policy class type queuing class-default bandwidth percent 100 policy-map type queuing default-out-policy class type queuing class-default bandwidth percent 100 Type network-qos policy-maps ===== policy-map type network-qos</pre>	<pre>switch# show policy-map Type qos policy-maps ===== policy-map type qos pqos class type qos cqos1 set qos-group 1 class type qos cqos6 set qos-group 6 class type qos class-default set qos-group 0 policy-map type qos default-in-policy class type qos class-default set qos-group 0 Type queuing policy-maps ===== policy-map type queuing pqu class type queuing cqu1 bandwidth percent 10 class type queuing cqu6 bandwidth percent 20 class type queuing class-default bandwidth percent 70 policy-map type queuing default-out-policy class type queuing class-default bandwidth percent 100</pre>					

	<pre>pnqos class type network-qos cnq1 mtu 2200 pause no-drop class type network-qos cnq6 mtu 2200 pause no-drop congestion-control random-detect ecn class type network-qos class- default mtu 9216 policy-map type network-qos default-nq-policy class type network-qos class- default mtu 1500</pre>	<pre>Type network-qos policy-maps ===== === policy-map type network-qos pnqos class type network-qos cnq1 mtu 1500 set cos 4 class type network-qos cnq6 mtu 1500 set cos 5 congestion-control random- detect ecn class type network-qos class- default mtu 9216 policy-map type network-qos default-nq-policy class type network-qos class- default mtu 1500</pre>	
<pre>show policy-map interface</pre>	<p>The output of this command has been updated.</p>		<p><i>Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference</i></p> <p>Section: <i>show policy-map interface</i></p>
<p>Cisco NX-OS Release 7.0(3)I2(1)</p>	<p>Previous Release</p>		
<pre>switch# show policy-map interface ethernet 1/1 Global statistics status : enabled Ethernet1/1 Service-policy (qos) input: pqos Class-map (qos): cqos1 (match- all) Match: cos 1 set qos-group 1 Class-map (qos): cqos6 (match-</pre>	<pre>switch# show policy-map interface ethernet 1/1 Global statistics status : disabled Ethernet1/1 Service-policy (qos) input: pqos policy statistics status: disabled Class-map (qos): cqos1 (match- all) Match: cos 1 set qos-group 1</pre>		

	<pre>all) Match: cos 6 set qos-group 6 Class-map (qos): class-default (match-any) Match: any set qos-group 0 Service-policy (queuing) input: default-in-policy SNMP Policy Index: 301989889 Class-map (queuing): class-default (match-any) bandwidth percent 100 queue dropped pkts : 0 queue depth in bytes : 0 Service-policy (queuing) output: default-out-policy SNMP Policy Index: 301989893 Class-map (queuing): class-default (match-any) bandwidth percent 100 queue dropped pkts : 0 queue depth in bytes : 0</pre>	<pre>Class-map (qos): cqos6 (match- all) Match: cos 6 set qos-group 6 Class-map (qos): class-default (match-any) Match: any set qos-group 0 Service-policy (queuing) output: pqu policy statistics status: disabled <--Output truncated--></pre>	
<pre>show policy-map system</pre>	<p>The output of this command has been updated.</p>		<p><i>Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference</i></p> <p>Section: <i>show policy-map system</i></p>
<p>Cisco NX-OS Release 7.0(3)I2(1)</p>	<p>Previous Release</p>		
<pre>switch# show policy-map system Type network-qos policy-maps ===== = policy-map type network-qos default-nq-policy class type network-qos class- default match qos-group 0</pre>	<pre>switch# show policy-map system Type network-qos policy-maps ===== === policy-map type network-qos pnqos class type network-qos cnq1</pre>		

	<pre> mtu 1500 Service-policy (qos) input: pqos Class-map (qos): cqos1 (match-all) 0 packets 0 bytes 5 minute offered rate 0 bps Aggregate forwarded : 0 packets Match: cos 1 set qos-group 1 Class-map (qos): cqos6 (match-all) 0 packets 0 bytes 5 minute offered rate 0 bps Aggregate forwarded : 0 packets Match: cos 6 set qos-group 6 Class-map (qos): class-default (match-any) 0 packets 0 bytes 5 minute offered rate 0 bps Aggregate forwarded : 0 packets Match: any 0 packets set qos-group 0 Service-policy (queuing) input: default-in-policy policy statistics status: disabled (current status: disabled) Class-map (queuing): class-default (match-any) bandwidth percent 100 Service-policy (queuing) output: </pre>	<pre> match qos-group 1 mtu 1500 set cos 4 class type network-qos cnq6 match qos-group 6 mtu 1500 set cos 5 congestion-control random- detect ecn class type network-qos class- default match qos-group 0 mtu 9216 Service-policy (qos) input: pqos policy statistics status: disabled Class-map (qos): cqos1 (match- all) Match: cos 1 set qos-group 1 Class-map (qos): cqos6 (match- all) Match: cos 6 set qos-group 6 Class-map (qos): class-default (match-any) Match: any set qos-group 0 </pre>	
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	<pre> default-out-policy policy statistics status: disabled (current status: disabled) Class-map (queuing): class-default (match-any) bandwidth percent 100 </pre>	<pre> Service-policy (queuing) output: pqu policy statistics status: disabled Class-map (queuing): cq1 (match-any) Match: qos-group 1 bandwidth percent 10 Class-map (queuing): cq6 (match-any) Match: qos-group 6 bandwidth percent 20 Class-map (queuing): class- default (match-any) Match: qos-group 0 bandwidth percent 70 </pre>				
<pre>show processes memory</pre>	<p>The StkSize, RSSMem, and LibMem columns are no longer displayed in the table for memory allocation processes.</p> <table border="1"> <thead> <tr> <th data-bbox="391 1192 815 1230">Cisco NX-OS Release 7.0(3)I2(1)</th> <th data-bbox="815 1192 1255 1230">Previous Release</th> </tr> </thead> <tbody> <tr> <td data-bbox="391 1230 815 1883"> <pre> switch# show process memory PID MemAlloc MemLimit MemUsed StackBase/Ptr Process ----- ----- ----- 1 176128 0 4317184 95f6a010/95f69638 init 2 0 0 0 0/0 kthreadd 3 0 0 0 0/0 ksoftirqd/0 </pre> </td> <td data-bbox="815 1230 1255 1883"> <pre> switch# show process memory PID MemAlloc MemLimit StkSize RSSMem LibMem StackBase/Ptr Process ----- ----- ----- 1 159744 0 86016 679936 1732608 ffdea3d0/ffffff init 2 0 0 0 0 0 0/0 kthreadd 3 0 0 0 0 0 0/0 migration/0 </pre> </td> </tr> </tbody> </table>	Cisco NX-OS Release 7.0(3)I2(1)	Previous Release	<pre> switch# show process memory PID MemAlloc MemLimit MemUsed StackBase/Ptr Process ----- ----- ----- 1 176128 0 4317184 95f6a010/95f69638 init 2 0 0 0 0/0 kthreadd 3 0 0 0 0/0 ksoftirqd/0 </pre>	<pre> switch# show process memory PID MemAlloc MemLimit StkSize RSSMem LibMem StackBase/Ptr Process ----- ----- ----- 1 159744 0 86016 679936 1732608 ffdea3d0/ffffff init 2 0 0 0 0 0 0/0 kthreadd 3 0 0 0 0 0 0/0 migration/0 </pre>	<p><i>Cisco Nexus 3000 Series NX-OS Fundamentals Command Reference</i></p> <p>Section: <i>show processes memory</i></p>
Cisco NX-OS Release 7.0(3)I2(1)	Previous Release					
<pre> switch# show process memory PID MemAlloc MemLimit MemUsed StackBase/Ptr Process ----- ----- ----- 1 176128 0 4317184 95f6a010/95f69638 init 2 0 0 0 0/0 kthreadd 3 0 0 0 0/0 ksoftirqd/0 </pre>	<pre> switch# show process memory PID MemAlloc MemLimit StkSize RSSMem LibMem StackBase/Ptr Process ----- ----- ----- 1 159744 0 86016 679936 1732608 ffdea3d0/ffffff init 2 0 0 0 0 0 0/0 kthreadd 3 0 0 0 0 0 0/0 migration/0 </pre>					

		<pre> 4 0 0 0 0 0 0/0 ksoftirqd/0 5 0 0 0 0 0 0/0 watchdog/0 </pre>	
show queuing	The output of this command has been updated.		<i>Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference</i> Section: <i>show queuing</i>
	Cisco NX-OS Release 7.0(3)2(1)	Previous Release	
	<pre> switch# show queuing slot 1 ===== Egress Queuing for Ethernet1/1 System ----- ----- ----- OoS-Group# Bandwidth% PrioLevel Shape Min Max OoS-Group# Bandwidth% PrioLevel Shape QLimit Units ----- ----- ----- Min Max Units ----- ----- ----- 0 100 - - - 7(D) ----- ----- . QOS GROUP 0 . ----- ----- ----- . . Unicast . OOBFC Unicast . Multicast . ----- ----- ----- . Tx Pkts . 0 . 0 . 0 . . Tx Byts . 0 . 0 . 0 . . Dropped Pkts . 0 . 0 . 0 . . Dropped Byts . 0 . 0 . 0 . +----- ----- </pre>	<pre> switch# show queuing Egress queuing for Ethernet1/1 [Interface] ----- ----- ----- OoS-Group# Bandwidth% PrioLevel Shape Min Max OoS-Group# Bandwidth% PrioLevel Shape QLimit Units ----- ----- ----- 0 10 - 0 0 - 0 10 - 0 0 - 0 10 - 0 0 - 0 10 1 0 0 - 0 10 - 0 0 - 0 10 2 0 0 - 0 10 - 0 0 - 0 10 - 0 0 - 0 0 - 0 0 - +----- ----- </pre>	

	<pre> . Q Depth Byts . 0 . 0 . 0 . ----- . QOS GROUP 1 . ----- . . Unicast . OOBFC Unicast . Multicast . ----- . Tx Pkts . 0 . 0 . 0 . . Tx Byts . 0 . 0 . 0 . . Dropped Pkts . 0 . 0 . 0 . . Dropped Byts . 0 . 0 . 0 . . Q Depth Byts . 0 . 0 . 0 . ----- . QOS GROUP 2 . ----- . . Unicast . OOBFC Unicast . Multicast . ----- . Tx Pkts . 0 . 0 . 0 . . Tx Byts . 0 . 0 . 0 . . Dropped Pkts . 0 . 0 . 0 . . Dropped Byts . 0 . 0 . 0 . . Q Depth Byts . 0 . 0 . 0 . ----- </pre>	<pre> -----+ QOS GROUP 0 +-----+ -----+ Unicast Multicast +-----+ -----+ Tx Pkts 0 0 Tx Byts 0 0 Dropped Pkts 0 0 Dropped Byts 0 0 +-----+ -----+ QOS GROUP 1 +-----+ -----+ Unicast Multicast +-----+ -----+ Tx Pkts 0 0 Tx Byts 0 0 Dropped Pkts 0 0 Dropped Byts 0 0 +-----+ </pre>	
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	<pre> . QOS GROUP 3 . ----- ----- ----- . . Unicast . OOBFC Unicast . Multicast . ----- ----- ----- . Tx Pkts . 0 . 0 . 0 . . Tx Byts . 0 . 0 . 0 . . Dropped Pkts . 0 . 0 . 0 . . Dropped Byts . 0 . 0 . 0 . . Q Depth Byts . 0 . 0 . 0 . ----- ----- ----- . QOS GROUP 4 . ----- ----- ----- . . Unicast . OOBFC Unicast . Multicast . ----- ----- ----- . Tx Pkts . 0 . 0 . 0 . . Tx Byts . 0 . 0 . 0 . . Dropped Pkts . 0 . 0 . 0 . . Dropped Byts . 0 . 0 . 0 . . Q Depth Byts . 0 . 0 . 0 . ----- ----- ----- . QOS GROUP 5 . ----- ----- ----- </pre>	<pre> ----- -----+ . QOS GROUP 2 . +----- ----- -----+ . Unicast Multicast . +----- ----- -----+ . Tx Pkts 0 0 . Tx Byts 0 0 . Dropped Pkts 0 0 . Dropped Byts 0 0 +----- ----- -----+ . QOS GROUP 3 . +----- ----- -----+ . Unicast Multicast . +----- ----- -----+ . Tx Pkts 0 0 . Tx Byts 0 0 . Dropped Pkts 0 0 . Dropped Byts 0 0 </pre>	
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	<pre> ----- . . Unicast . OOBFC Unicast . Multicast . ----- ----- ----- . Tx Pkts . 0 . 0 . 0 . . Tx Byts . 0 . 0 . 0 . . Dropped Pkts . 0 . 0 . 0 . . Dropped Byts . 0 . 0 . 0 . . Q Depth Byts . 0 . 0 . 0 . ----- ----- ----- . QOS GROUP 6 . ----- ----- ----- . . Unicast . OOBFC Unicast . Multicast . ----- ----- ----- . Tx Pkts . 0 . 0 . 0 . . Tx Byts . 0 . 0 . 0 . . Dropped Pkts . 0 . 0 . 0 . . Dropped Byts . 0 . 0 . 0 . . Q Depth Byts . 0 . 0 . 0 . ----- ----- ----- . QOS GROUP 7 . ----- ----- ----- . . Unicast . OOBFC Unicast . Multicast . ----- </pre>	<pre> 0 +-----+ -----+ QOS GROUP 4 +-----+ -----+ Unicast Multicast +-----+ -----+ Tx Pkts 0 0 Tx Byts 0 0 Dropped Pkts 0 0 Dropped Byts 0 0 +-----+ -----+ QOS GROUP 5 +-----+ -----+ Unicast Multicast +-----+ -----+ Tx Pkts 0 0 Tx Byts 0 0 Dropped Pkts 0 0 </pre>	
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	<pre> ----- ----- . Tx Pkts . 0 . 0 . 0 . . Tx Byts . 0 . 0 . 0 . . Dropped Pkts . 0 . 0 . 0 . . Dropped Byts . 0 . 0 . 0 . . Q Depth Byts . 0 . 0 . 0 . ----- ----- ----- ----- . CONTROL QOS GROUP . ----- ----- ----- . . Unicast . OOBFC Unicast . Multicast . ----- ----- . Tx Pkts . 0 . 0 . 0 . . Tx Byts . 0 . 0 . 0 . . Dropped Pkts . 0 . 0 . 0 . . Dropped Byts . 0 . 0 . 0 . . Q Depth Byts . 0 . 0 . 0 . ----- ----- . SPAN QOS GROUP . ----- ----- . . Unicast . OOBFC Unicast . Multicast . ----- ----- . Tx Pkts . 0 . 0 . 0 . </pre>	<pre> Dropped Byts 0 0 +-----+ -----+ QOS GROUP 6 +-----+ -----+ Unicast Multicast +-----+ -----+ Tx Pkts 0 0 Tx Byts 0 0 Dropped Pkts 0 0 Dropped Byts 0 0 +-----+ -----+ QOS GROUP 7 +-----+ -----+ Unicast Multicast +-----+ -----+ Tx Pkts 0 0 Tx Byts 0 0 Dropped Pkts 0 </pre>	
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<pre> . Tx Byts . 0 . 0 . 0 . . Dropped Pkts . 0 . 0 . 0 . . Dropped Byts . 0 . 0 . 0 . . Q Depth Byts . 0 . 0 . 0 . ----- ----- ----- Port Egress Statistics ----- ----- ----- WRED Drop Pkts 0 Ingress Queuing for Ethernet1/1 ----- ----- ----- QoS-Group# Pause QLimit Buff Size Pause Th Resume Th ----- ----- ----- 7 - - - 11884912(S) 6 - - - 11884912(S) 5 - - - 11884912(S) 4 - - - 11884912(S) 3 - - - 11884912(S) 2 - - - 11884912(S) 1 - - - 11884912(S) 0 - - - 11884912(S) Port Ingress Statistics ----- ----- ----- Ingress MMU Drop Pkts 0 Ingress MMU Drop Bytes 0 PFC Statistics ----- </pre>	<pre> 0 Dropped Byts 0 0 +-----+ -----+ ----- CONTROL QOS GROUP 9 +-----+ -----+ ----- Unicast Multicast +-----+ -----+ ----- Tx Pkts 1901 0 Tx Byts 145235 0 Dropped Pkts 0 0 Dropped Byts 0 0 +-----+ -----+ Port Egress Statistics ----- ----- ----- WRED Drop Pkts 0 ----- ----- ----- Egress queuing for Ethernet1/4 [Interface] ----- ----- ----- </pre>	<pre> </pre>
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	<p>----- ----- TxPPP: 0, RxPPP: 0 ----- ----- -----</p>	<p>OoS-Group# Bandwidth% PrioLevel Shape Min Max Units ----- ----- -----</p>	
	<p>COS QOS Group PG TxPause TxCount RxPause RxCount</p>	<p>0 100 - 0 0 - 9 0 - 0 0 -</p>	
	<p>0 - 7 Inactive 0 Inactive 0 1 - 7 Inactive 0 Inactive 0 2 - 7 Inactive 0 Inactive 0 3 - 7 Inactive 0 Inactive 0 4 - 7 Inactive 0 Inactive 0 5 - 7 Inactive 0 Inactive 0 6 - 7 Inactive 0 Inactive 0 7 - 7 Inactive 0 Inactive 0</p>	<p>+----- ----- -----+ OOS GROUP 0 +----- ----- -----+</p>	
	<p>----- ----- --</p>	<p> Unicast Multicast +----- ----- -----+</p>	
		<p> Tx Pkts 0 0 Tx Byts 0 0 Dropped Pkts 0 0 Dropped Byts 0 0 +----- ----- -----+</p>	
		<p> CONTROL QOS GROUP 9 +----- ----- -----+</p>	
		<p> Unicast Multicast</p>	

		<pre> +-----+ -----+ Tx Pkts 8634 0 Tx Byts 1218248 0 Dropped Pkts 0 0 Dropped Byts 0 0 +-----+ -----+ Port Egress Statistics ----- ----- WRED Drop Pkts 0 </pre>	
<p>show queuing interface</p>	<p>This command has changed as follows:</p> <ul style="list-style-type: none"> ■ The output includes all queues whether or not network-qos policy has the queues enabled. ■ Entering show queuing interface ? now displays an option for Internal HiGig2 interface. <p>The output of this command has changed (see example below).</p>	<p><i>Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference</i></p> <p>Section: <i>show queuing interface</i></p>	
	<p>Cisco NX-OS Release 7.0(3)I2(1)</p> <pre> switch# show queuing interface ethernet 1/1 slot 1 ===== Egress Queuing for Ethernet1/1 System ----- ----- QoS-Group# Bandwidth% PrioLevel Shape QLimit </pre>	<p>Previous Release</p> <pre> switch# show queuing interface ethernet 1/10 Ethernet1/10 queuing information: TX queuing qos-group sched-type oper- bandwidth 0 WRR 0 1 WRR 10 2 WRR 90 </pre>	

	<pre> Min Max Units ----- ----- ----- 0 100 - - - - 7(D) ----- ----- ----- QOS GROUP 0 . ----- ----- ----- Unicast OOBFC Unicast Multicast . ----- ----- ----- Tx Pkts 0 0 0 . Tx Byts 0 0 0 . Dropped Pkts 0 0 0 . Dropped Byts 0 0 0 . Q Depth Byts 0 0 0 . ----- ----- ----- QOS GROUP 1 . ----- ----- ----- Unicast OOBFC Unicast Multicast . ----- ----- ----- Tx Pkts 0 0 0 . Tx Byts 0 0 0 . Dropped Pkts 0 0 0 . </pre>	<pre> 3 WRR 0 4 WRR 0 5 WRR 0 6 WRR 0 7 WRR 0 RX queuing qos-group 0 HW MTU: 9216 (9216 configured) drop-type: drop, xon: 0, xoff: 0 Statistics: Ucast pkts sent over the port : 0 Ucast bytes sent over the port : 0 Mcast pkts sent over the port : 2416 Mcast bytes sent over the port : 164288 Ucast pkts dropped : 0 Ucast bytes dropped : 0 Mcast pkts dropped : 0 Mcast bytes dropped : 0 <--Output truncated--> </pre>	
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	<pre> Dropped Byts 0 0 0 . Q Depth Byts 0 0 0 . ----- ----- ----- QOS GROUP 2 . ----- ----- ----- Unicast OOBFC Unicast Multicast . ----- ----- ----- Tx Pkts 0 0 0 . Tx Byts 0 0 0 . Dropped Pkts 0 0 0 . Dropped Byts 0 0 0 . Q Depth Byts 0 0 0 . ----- ----- ----- QOS GROUP 3 . ----- ----- ----- Unicast OOBFC Unicast Multicast . ----- ----- ----- Tx Pkts 0 0 0 . Tx Byts 0 0 0 . Dropped Pkts 0 0 0 . Dropped Byts 0 0 0 . Q Depth Byts 0 0 0 . ----- ----- -----</pre>		
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	<pre>----- QOS GROUP 4 . ----- ----- ----- Unicast OOBFC Unicast Multicast . ----- ----- ----- Tx Pkts 0 0 0 . Tx Byts 0 0 0 . Dropped Pkts 0 0 0 . Dropped Byts 0 0 0 . Q Depth Byts 0 0 0 . ----- ----- ----- QOS GROUP 5 . ----- ----- ----- Unicast OOBFC Unicast Multicast . ----- ----- ----- Tx Pkts 0 0 0 . Tx Byts 0 0 0 . Dropped Pkts 0 0 0 . Dropped Byts 0 0 0 . Q Depth Byts 0 0 0 . ----- ----- ----- QOS GROUP 6 . -----</pre>		
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	<pre>----- ----- Unicast OOBFC Unicast Multicast . ----- ----- ----- Tx Pkts 0 0 0 . Tx Byts 0 0 0 . Dropped Pkts 0 0 0 . Dropped Byts 0 0 0 . Q Depth Byts 0 0 0 . ----- ----- ----- QOS GROUP 7 . ----- ----- ----- Unicast OOBFC Unicast Multicast . ----- ----- ----- Tx Pkts 0 0 0 . Tx Byts 0 0 0 . Dropped Pkts 0 0 0 . Dropped Byts 0 0 0 . Q Depth Byts 0 0 0 . ----- ----- ----- CONTROL QOS GROUP . ----- ----- ----- Unicast OOBFC Unicast Multicast .</pre>		
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	<pre>----- ----- ----- Tx Pkts 0 0 0 . Tx Byts 0 0 0 . Dropped Pkts 0 0 0 . Dropped Byts 0 0 0 . Q Depth Byts 0 0 0 . ----- ----- ----- SPAN QOS GROUP . ----- ----- ----- Unicast OOBFC Unicast Multicast . ----- ----- ----- Tx Pkts 0 0 0 . Tx Byts 0 0 0 . Dropped Pkts 0 0 0 . Dropped Byts 0 0 0 . Q Depth Byts 0 0 0 . ----- ----- ----- Port Egress Statistics ----- ----- WRED Drop Pkts 0 Ingress Queuing for Ethernet1/1 ----- ----- ----- QoS-Group# Pause QLimit</pre>		
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	<pre>Buff Size Pause Th Resume Th ----- ----- ----- 7 - - - 11884912(S) 6 - - - 11884912(S) 5 - - - 11884912(S) 4 - - - 11884912(S) 3 - - - 11884912(S) 2 - - - 11884912(S) 1 - - - 11884912(S) 0 - - - 11884912(S) Port Ingress Statistics ----- ----- Ingress MMU Drop Pkts 0 Ingress MMU Drop Bytes 0 PFC Statistics ----- ----- ----- TxPPP: 0, RxPPP: 0 ----- ----- ----- COS QOS Group PG TxPause TxCount RxPause RxCount 0 - 7 Inactive 0 Inactive 0 1 - 7 Inactive 0 Inactive 0 2 - 7 Inactive 0 Inactive 0 3 - 7 Inactive 0 Inactive 0 4 - 7 Inactive 0 Inactive 0 5 - 7 Inactive 0 Inactive 0 6 - 7 Inactive 0 Inactive 0 7 - 7 Inactive 0 Inactive 0</pre>		
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	<pre>----- ----- ----</pre>		
<p>show queuing interface <i>ethernet slot/chassis_number</i></p>	<p>This command displays two more options: module and summary in the output. These additional options do not have any functionality impact.</p>		<p><i>Cisco Nexus 3000 Series NX-OS Quality of Service Configuration Guide</i></p> <p><i>Chapter 3: Configuring QoS</i></p>
<p>show running-config ipqos</p>	<p>The output of this command has been updated.</p>		<p><i>Cisco Nexus 3000 Series NX-OS Quality of Service Command Reference</i></p> <p>Section: <i>show running-config ipqos</i></p>
	<p>Cisco NX-OS Release 7.0(3)I2(1)</p>	<p>Previous Release</p>	
	<pre>switch# show running-configuration ipqos version 7.0(3)I2(1) class-map type network-qos cnq1 match qos-group 1 class-map type network-qos cnq6 match qos-group 6 class-map type network-qos class-default match qos-group 0 policy-map type network-qos pnqos class type network-qos cnq1 mtu 2200 pause no-drop class type network-qos cnq6 mtu 2200 pause no-drop congestion-control random-</pre>	<pre>switch# show running-config ipqos !Command: show running-config ipqos !Time: Mon Mar 15 08:24:12 2010 version 5.0(3)U1(1) class-map type qos match-all cqos1 match cos 1 class-map type qos match-all cqos6 match cos 6 class-map type queuing cqu1 match qos-group 1 class-map type queuing cqu6 match qos-group 6 policy-map type qos pqos class cqos1 set qos-group 1 class cqos6 set qos-group 6</pre>	

	<pre> detect ecn class type network-qos class- default mtu 9216 class-map type qos match-all cqos1 match cos 1 class-map type qos match-all cqos6 match cos 6 class-map type qos match-any class-default class-map type queuing class- default match qos-group 0 policy-map type qos pqos class cqos1 set qos-group 1 class cqos6 set qos-group 6 class class-default set qos-group 0 policy-map type qos default-in- policy class class-default set qos-group 0 policy-map type queuing default- in-policy bandwidth percent 100 policy-map type queuing default- out-policy bandwidth percent 100 system qos service-policy type qos input pqos </pre>	<pre> policy-map type queuing pqu class type queuing cqu1 bandwidth percent 10 class type queuing cqu6 bandwidth percent 20 <--Output truncated--> </pre>	
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show running-config vlan	The output for this command now displays multiple entries of the VLAN output. There is no functional impact from this behavior.		<i>Cisco Nexus 3000 Series NX-OS Interfaces Configuration Guide</i>
	Cisco NX-OS Release 7.0(3)I2(1)	Previous Release	<i>Chapter 2: Configuring Layer 2 Interfaces</i>
	<pre>switch(config)# vlan 1-100 switch(config-vlan)# exit switch(config)# switch(config)# sh run vlan !Command: show running- config vlan !Time: Sun Jan 21 16:11:19 2001 version 7.0(3)I2(1) vlan 1-100 switch(config)# sh run vlan 20 !Command: show running-config vlan 20 !Time: Sun Jan 21 16:11:28 2001 version 7.0(3)I2(1) vlan 20 switch(config)# vlan 20 switch(config-vlan)# name vlan20 switch(config-vlan)# exit switch(config)# sh run vlan !Command: show running- config vlan !Time: Sun Jan 21 16:12:12 2001 version 7.0(3)I2(1) vlan 1-100 vlan 20 name vlan20 switch(config)# sh run vlan 20 !Command: show running-config vlan 20 !Time: Sun Jan 21 16:12:23 2001 version 7.0(3)I2(1) vlan 20 vlan 20</pre>	<pre>switch(config)# vlan 1-100 switch(config-vlan)# exit switch(config)# sh running-config vlan ^ % Invalid command at '^' marker. switch(config)# sh running-config vlan 20 !Command: show running-config vlan 20 !Time: Sat Mar 13 19:08:26 2010 version 6.0(2)U7(1) vlan 20 switch(config)# vlan 20 switch(config-vlan)# name vlan20 switch(config-vlan)# exit switch(config)# sh run vlan 20 !Command: show running-config vlan 20 !Time: Sat Mar 13 19:09:58 2010 version 6.0(2)U7(1) vlan 20 name vlan20 switch(config)# sh run grep -A 10 -i vlan vlan 1-19 vlan 20 name vlan20 vlan 21-100 vrf context management ip route 0.0.0.0/0 10.197.121.1 interface Ethernet1/1 interface Ethernet1/2 interface Ethernet1/3 interface Ethernet1/4</pre>	

CLI Changes

	<pre> name vlan20 switch(config)# sh run grep -A 5 -i vlan vlan 1-100 vlan 20 name vlan20 vrf context management ip route 0.0.0.0/0 10.197.121.1 no system urpf disable </pre>				
show system internal aclqos info pfc buffer-reservation	Added a new CLI command to check the PFC mmu buffer reservation.		Cisco Nexus 3000 Series NX-OS Quality of Service Configuration Guide		
show tech-support	This command was enhanced to include the additional sub-options: biosd, bloggerd, and bloggerd-all. The show tech-support bcm-usd command is displayed after entering the attach module <module number> command		<i>Cisco Nexus 3000 Series NX-OS Fundamentals Command Reference</i> Section: <i>show tech-support</i>		
show telnet server	The error message displayed when the telnet service is not detected has changed from “telnet service not enabled” to “Telnet service is disabled.” This change may impact automated scripts.		<i>Cisco Nexus 3000 Series NX-OS Security Command Reference</i> Section: <i>show telnet server</i>		
show vpc brief	The output for this command has changed.		<i>Cisco Nexus 3000 Series NX-OS Interfaces Command Reference</i> Section: <i>show vpc brief</i>		
	<table border="1"> <thead> <tr> <th>Cisco NX-OS Release 7.0(3)I2(1)</th> <th>Previous Release</th> </tr> </thead> <tbody> <tr> <td> <pre> switch# sh vpc brief Legend: (*) - local vPC is down, forwarding via vPC peer- link vPC domain id : 75 Peer status : peer adjacency formed ok vPC keep-alive status : peer is alive Configuration consistency status : success </pre> </td> <td> <pre> switch# sh vpc brief Legend: (*) - local vPC is down, forwarding via vPC peer-link vPC domain id : 75 Peer status : peer adjacency formed ok vPC keep-alive status : peer is alive Configuration consistency status : success Per-vlan consistency status : </pre> </td> </tr> </tbody> </table>	Cisco NX-OS Release 7.0(3)I2(1)		Previous Release	<pre> switch# sh vpc brief Legend: (*) - local vPC is down, forwarding via vPC peer- link vPC domain id : 75 Peer status : peer adjacency formed ok vPC keep-alive status : peer is alive Configuration consistency status : success </pre>
Cisco NX-OS Release 7.0(3)I2(1)	Previous Release				
<pre> switch# sh vpc brief Legend: (*) - local vPC is down, forwarding via vPC peer- link vPC domain id : 75 Peer status : peer adjacency formed ok vPC keep-alive status : peer is alive Configuration consistency status : success </pre>	<pre> switch# sh vpc brief Legend: (*) - local vPC is down, forwarding via vPC peer-link vPC domain id : 75 Peer status : peer adjacency formed ok vPC keep-alive status : peer is alive Configuration consistency status : success Per-vlan consistency status : </pre>				

<pre> Per-vlan consistency status : success success Type-2 consistency status : success success vPC role : secondary Number of vPCs configured : 1 Peer Gateway : Disabled Dual-active excluded VLANs : - Graceful Consistency Check : Enabled Auto-recovery status : Disabled Delay-restore status : Timer is off.(timeout = 30s) Delay-restore SVI status : Timer is off.(timeout = 10s) vPC Peer-link status ----- ----- ----- id Port Status Active vlans -- -- - ----- ----- 1 Po75 up 75 vPC status ----- ----- ----- id Port Status Consistency Reason Reason Active vlans -- -- - </pre>	<pre> success Type-2 consistency status : success vPC role : primary Number of vPCs configured : 1 Peer Gateway : Enabled Dual-active excluded VLANs : - Graceful Consistency Check : Enabled Auto-recovery status : Disabled vPC Peer-link status ----- ----- ----- id Port Status Active vlans -- -- - ----- ----- 1 Po75 up 75 vPC status ----- ----- ----- id Port Status Consistency Reason Reason Active vlans -- -- - 100 Po109 up success success 75 </pre>	
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	<pre> ----- 100 Po110 down* success success - </pre>		
snmp-server contact	This command no longer has a default name and must be configured to enable callhome.		<i>Cisco Nexus 3000 Series NX-OS System Management Command Reference</i> Section: <i>snmp-server contact</i>

Related Documentation

Documentation for the Cisco Nexus 3000 Series Switch is available at the following URL:

http://www.cisco.com/en/US/products/ps11541/tsd_products_support_series_home.html

The documentation set is divided into the following categories:

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The release notes are available at the following URL:

http://www.cisco.com/en/US/products/ps11541/prod_release_notes_list.html

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http://www.cisco.com/en/US/products/ps11541/products_installation_and_configuration_guides_list.html

Error and System Messages

The system message reference guide is available at the following URL:

http://www.cisco.com/en/US/products/ps11541/products_system_message_guides_list.html

New Documentation

- *Cisco Nexus 3000 Series NX-OS IP SLAs Configuration Guide*
- *Cisco Nexus 3000 Series NX-OS Label Switching Configuration Guide*
- *Cisco Nexus 3000 Series NX-OS Release Notes*
- *Cisco Nexus 9000 Series NX-OS Release Notes*

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