



New and Changed Information

This chapter provides release-specific information for each new and changed feature in the *Cisco Nexus 3000 Series NX-OS System Management Command Reference*. The latest version of this document is available at the following Cisco website:

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

To check for additional information about this Cisco NX-OS Release, see the *Cisco Nexus 3000 Series Switch Release Notes* available at the following Cisco website:

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

Table 1 summarizes the new and changed features for Cisco NX-OS and tells you where they are documented.

Table 1 *New and Changed Information*

Feature	Description	Changed in Release	Where Documented
Precision time protocol	The sync interval range is now 2 to 4.	7.0(3)I2(1)	ptp sync interval
Precision time protocol	The announce timeout range is now 2 to 4.	7.0(3)I2(1)	ptp announce
Show monitor session	The number of TCAM entries available for ACL SPAN has been reduced by 6 entries.	7.0(3)I2(1)	show monitor session
show logging onboard	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.	7.0(3)I2(1)	show logging onboard
Show monitor session	The option for filter VLANs has been removed. This feature now displays rx, tx, and both for the source VLANs.	7.0(3)I2(1)	show monitor session
Snmp-server contact	This command no longer has a default name and must be configured to enable callhome.	7.0(3)I2(1)	snmp-server contact

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Feature	Description	Changed in Release	Where Documented
Clear sflow statistics	This command no longer clears the Total Samples and Dropped Samples fields. To clear Total Samples: clear hardware rate-limiter sflow To clear Total Packets: clear hardware rate-limiter sflow	7.0(3)I2(1)	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> .	7.0(3)I2(1)	clock protocol
Syslog for ALPM mode	A new CLI command [no] hardware profile unicast syslog host-table-detail has been added.	6.0(2)U5(4)	hardware profile unicast syslog host-table-detail
ERSPAN Enhancements	The egress interface information is added for the ERSPAN source session in the show monitor session <session-number> command..	6.0(2)U5(1)	show monitor session
MPLS output statistics	The MPLS output statistics are displayed in show forwarding mpls stats command.	6.0(2)U5(1)	show forwarding mpls stats
MPLS Stripping	This feature was introduced.	6.0(2)U2(5)	clear counters mpls strip clear mpls strip label dynamic mpls strip dest-mac mpls strip mpls strip label mpls strip label-age show mpls strip labels
Tap Aggregation	This feature was introduced.	6.0(2)U2(3)	hardware profile parity-error mode tap-aggregation
Soft Error Recovery	This feature was introduced.	6.0(2)U2(1)	show hardware forwarding memory health summary
NTP Server	This feature was introduced.	6.0(2)U2(1)	feature ntp mpls strip dest-mac ntp access-group ntp master ntp broadcast ntp multicast
SPAN with ACL filtering	This feature was introduced.	6.0(2)U2(1)	filter access-group
Configurable SPAN buffer limit	This feature was introduced.	5.0(3)U5(1)	switchport mode monitor buffer-limit

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Feature	Description	Changed in Release	Where Documented
Syslog user-configurable source-IP	This feature was introduced.	5.0(3)U5(1)	logging source-interface
sFLOW	This feature was introduced.	5.0(3)U4(1)	clear sflow statistics feature sflow sflow agent-ip sflow collector-ip sflow collector-port sflow counter-poll-interval sflow data-source sflow max-datagram-size sflow max-sampled-size sflow sampling-rate show sflow show sflow statistics
Syslog Thresholds for System Resources	This feature was introduced.	5.0(3)U3(2)	filter access-group
Store and Forward Switching	This feature was introduced.	5.0(3)U3(1)	switching-mode store-forward
Scheduler	This feature was introduced.	5.0(3)U3(1)	clear scheduler logfile feature scheduler scheduler show scheduler
Quad Small Form-factor Pluggable (QSFP+) Port	Updated the filter access-group command.	5.0(3)U3(1)	filter access-group

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Feature	Description	Changed in Release	Where Documented
Embedded Event Manager	This feature was introduced.	5.0(3)U3(1)	action cli action counter action event-default action policy-default action reload action snmp-trap action syslog description event cli event counter event fanabsent event fanbad event manager applet event manager environment event manager policy event manager policy internal event memory event oir event policy-default event snmp event storm-control event syslog event sysmgr event temperature event track show event manager environment show event manager event-types show event manager history events show event manager policy-state show event manager script system show event manager system-policy show running-config eem show startup-config eem tag terminal event-manager bypass

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Feature	Description	Changed in Release	Where Documented
ERSPAN	This feature was introduced. The monitor session command was updated to include the erspan-destination and erspan-source keywords.	5.0(3)U2(2)	description (SPAN, ERSPAN) destination ip (ERSPAN) destination interface (ERSPAN) monitor erspan origin ip-address monitor session shut (ERSPAN) source (SPAN, ERSPAN) source ip (ERSPAN) vrf (ERSPAN) show monitor session show running-config monitor
Precision Time Protocol (PTP)	This feature was introduced.	5.0(3)U2(2)	clear ptp counters clock protocol feature ntp ptp ptp announce ptp delay-request minimum interval ptp domain ptp priority1 ptp priority2 ptp source ptp sync interval ptp vlan show ntp trusted-keys show ptp clock show ptp clock foreign-masters-record show ptp corrections show ptp parent show ptp port show ptp time-property show running-config ptp show startup-config ptp

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Feature	Description	Changed in Release	Where Documented
40-Gigabit Ethernet Quad small form-factor pluggable (QSFP+) port	This feature was introduced to support 40-Gigabit Ethernet on QSFP+ ports. The following command was added in this release: <ul style="list-style-type: none"> • hardware profile portmode 	5.0(3)U2(1)	filter access-group
Domain Name System (DNS)	This feature was introduced. You can configure a DNS host, server, or name and enable the DNS lookup feature.	5.0(3)U1(1)	ip domain-list ip domain-lookup ip domain-name ip host ip name-server show hardware forwarding memory health summary
Network Time Protocol (NTP)	This feature was introduced. You can configure NTP peers and servers.	5.0(3)U1(1)	mpls strip dest-mac ntp abort ntp access-group ntp disable ntp logging show mpls strip labels show ntp pending-diff show ntp pending-diff show ntp status

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Feature	Description	Changed in Release	Where Documented
Call Home	This feature was introduced. You can configure the Cisco Smart Call Home service and parameters on a Cisco NX-OS switch.	5.0(3)U1(1)	abort (Call Home) alert-group (Call Home) callhome callhome send diagnostic callhome test commit (Call Home) contract-id (Call Home) customer-id (Call Home) destination-profile (Call Home) duplicate-message throttle (Call Home) email-contact (Call Home) enable (Call Home) ntp trusted-key phone-contact (Call Home) show callhome show callhome destination-profile show callhome transport-email show callhome user-def-cmds show running-config callhome show startup-config callhome show tech-support callhome site-id (Call Home) streetaddress (Call Home) switch-priority (Call Home) transport email (Call Home)

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Feature	Description	Changed in Release	Where Documented
Simple Network Management Protocol (SNMP)	This feature was introduced. You can configure an SNMP server and trap, or enable SNMP notifications for a VTP domain.	5.0(3)U1(1)	snmp-server community snmp-server contact snmp-server context snmp-server enable traps snmp-server enable traps link snmp-server globalEnforcePriv snmp-server host snmp-server location snmp-server mib community-map snmp-server tcp-session snmp-server user snmp trap link-status show snmp community show snmp context show snmp engineID show snmp group show snmp host show snmp sessions show snmp trap show snmp user
Virtual forwarding and routing (VRF)	This feature was introduced. You can configure VRF, VRF-lite features, and the IP features for a VRF.	5.0(3)U1(1)	ip domain-list ip domain-lookup ip domain-name ip host ip name-server show hardware forwarding memory health summary

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Feature	Description	Changed in Release	Where Documented
System Management	You can use the system management commands to enable logging messages, configure a remote syslog server, or verify a session configuration.	5.0(3)U1(1)	abort (session) clear counters mpls strip clear logging nvram clear logging onboard clear logging session clear mpls strip label dynamic clear ntp statistics commit (session) diagnostic bootup level ip access-list (session) ip port access-group (session) logging abort logging commit logging console logging distribute logging event logging event port logging logfile logging module logging monitor logging server logging timestamp show diagnostic bootup level show diagnostic result show hardware forwarding memory health summary show logging console show logging info show logging last show logging level show logging logfile show logging module show logging monitor show logging nvram

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Feature	Description	Changed in Release	Where Documented
System Management (<i>continued</i>)			show logging onboard show logging pending show logging pending-diff show logging session status show logging server show logging status show logging timestamp verify (session)
Remote Monitoring (RMON)	This feature was introduced. You can configure RMON alarms on a Cisco NX-OS switch.	5.0(3)U1(1)	rmon alarm rmon event rmon hcalarm show rmon