



New and Changed Information

This chapter provides release-specific information for each new and changed feature in the *Cisco Nexus 7000 Series NX-OS System Management Command Reference*. The latest version of this document is available at the following Cisco website:

<http://www.cisco.com/c/en/us/support/switches/nexus-7000-series-switches/products-command-reference-list.html>

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

<http://www.cisco.com/c/en/us/support/switches/nexus-7000-series-switches/products-release-notes-list.html>

Table 1 summarizes the new and changed features for the *Cisco Nexus 7000 Series NX-OS System Management Command Reference*, and tells you where they are documented.

Table 1 **New and Changed Features**

Feature	Description	Changed in Release
Fan tray maintenance mode	Modified the hardware fan-tray maintenance-mode command. By default, the fans will now run at 85% speed for approximately 4 minutes when this command is used.	8.1(1)
GIR	Added the system mode maintenance non-interactive , system mode maintenance snapshot-delay and show maintenance snapshot-delay commands.	8.0(1)
Fan tray maintenance mode	Added the hardware fan-tray maintenance-mode command.	7.2(0)D1(1)
Flexible NetFlow	Added the show flow monitor command to replace the deprecated show flow sw-monitor command.	6.2(10)
diagnostic eem action conservative	This command was introduced.	6.2(8)
snmp-server enable traps	The cbgp2 keyword was added.	6.2(8)

Table 1 **New and Changed Features**

Feature	Description	Changed in Release
IP access list logging	This command was introduced.	6.2(6)
	Added parameters to the output of the show logging ip access-list cache command.	
BloggerD	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
Converting CLI Commands to Network Configuration Format	This command was introduced.	6.2(2)
NTP	Added the match-all keyword to the ntp access-group command.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
SPAN	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	Added support for F2e Series modules with 100 microseconds and 100 nanoseconds granularity.	6.2(2)
	Added the rx , tx , and shut keywords to the monitor session command.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
	This command was introduced.	6.2(2)
System Cores	This command was introduced.	6.2(2)
	Added the 5sec , 1min , and 5min keywords to the show cpu processes sort command.	6.2(2)
	Added the sort keyword to the show processes memory command.	6.2(2)
Troubleshooting Features	This command was introduced.	6.2(2)

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Feature	Description	Changed in Release
flow timeout	Added the <i>seconds</i> argument for the syntax description and also the note.	6.1(2)
Energy Efficient Ethernet	This command was introduced.	6.1(2)
	This command was introduced.	6.1(2)
	This command was introduced.	6.1(2)
	This command was introduced.	6.1(2)
header-type	This command was introduced.	6.1(1)
monitor erspan granularity	This command was introduced.	6.1(1)
mtu	Starting with 6.1, MTU truncation also support ERSpan session.	6.1(1)
sampling	This command was introduced.	6.1(1)
show flow timeout	Changed the command output.	6.1(1)
ptp source	vrf option is deprecated in Cisco NX-OS 6.1(1) release.	6.1(1)
show monitor session	Changed the command output for erspan-source sessions.	6.1(1)
NetFlow hardware	The show hardware ip command has been changed to the show hardware flow command.	6.0(1)
Flexible Netflow	The show flow monitor command has been changed to the show flow-sw monitor command.	6.0(1)
Callhome	Added the ability to send HTTP messages through an HTTP proxy server.	5.2(1)
EEM event correlation	Added support for multiple event triggers in a single EEM policy.	5.2(1)
Logging	Added the ability to support descriptions for physical Ethernet interfaces and subinterfaces in the system message log.	5.2(1)
Network Time Protocol	Changed the [no] ntp enable command to the [no] feature ntp command. Added the ability to configure the device as the NTP authoritative server, enabling it to distribute time even if it is not synchronized to an existing time server.	5.2(1)
Precision Time Protocol	Added support for PTP is a time synchronization protocol nodes distributed across a network. This protocol provides greater accuracy than other time synchronization protocols.	5.2(1)

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Feature	Description	Changed in Release
SPAN Monitor	Added the ability to configure MTU truncation, the source rate limit, and the multicast best effort mode for each SPAN session and the ability to configure MTU truncation and the multicast best effort mode for each ERSPAN session.	5.2(1)
Encapsulated Remote Switched Port Analyzer (ERSPAN)	You can now configure and monitor ERSPAN for analyzing traffic between ports.	5.1(1)
AAA MSCHAP V2 authentication	Added the mschapv2 keyword to the aaa authentication login default and show authentication commands.	4.2(1)
AAA accounting log	Added the last-index and start-seqnum keywords to the show accounting log command.	4.2(1)
802.1x authentication	Added the dot1x pae authenticator command.	4.2(1)
RADIUS statistics	Added the clear radius-server statistics command.	4.2(1)
TACACS+ statistics	Added the clear tacacs-server statistics command.	4.2(1)
TACACS+ command authorization	Added the following commands to support TACACS+ command authorization: <ul style="list-style-type: none"> • aaa test authorization command-type • show aaa authorization • tacacs-server authorization command login default • tacacs-server authorization config-command login default • terminal verify-only 	4.2(1)
Port Security	Changed the following commands to support support port security on port-channel interfaces: <ul style="list-style-type: none"> • clear port-security • switchport port-security • switchport port-security aging time • switchport port-security aging type • switchport port-security mac-address • switchport port-security mac-address sticky • switchport port-security maximum • switchport port-security violation 	4.2(1)

Table 1 ***New and Changed Features***

Feature	Description	Changed in Release
IP ACLs	Added the fragments command to support optimization of fragment handling during IP ACL processing.	4.2(1)
MAC ACLs	Added or changed the following commands to support MAC packet classification: <ul style="list-style-type: none"> • ip port access-group • ipv6 port traffic-filter • mac packet-classify 	4.2(1)
Cisco Fabric Services	Cisco Fabric Services (CFS) distributes data, including configuration changes, to all Cisco NX-OS devices in a network.	4.1(2)
Ethernet Switched Port Analyzer	Cisco Ethernet Switched Port Analyzer (SPAN) destinations are enhanced to support intrusion detection by allowing the following: <ul style="list-style-type: none"> • Injecting packets to disrupt a TCP packet stream. • Enabling a forwarding engine to learn the MAC address of the IDS. 	4.1(2)
Call Home	Call Home is enhanced to support the distribution of configurations using CFS.	4.1(2)
Locator LEDs	Locator LEDs can be configured to blink to help locate them on the system.	4.1(2)
Online diagnostics (GOLD)	Cisco online diagnostics are enhanced to provide viewing of events, and to display diagnostic information in the output of the show module command.	4.1(2)
Syslog	Syslog facilities are updated to include: AMT, CFS, DCBX, LISP, Routing IPv6 Multicast, and Routing Multicast.	4.1(2)
NTP	Added the ntp enable command.	4.0(3)
New show hardware fabric-utilization commands	Adds commands to view hardware fabric utilization.	4.0(3)
SNMP	Added the snmp-server aaa-user cache-timeout and snmp-server protocol commands.	4.0(3)
SNMP—Multiple Instance Support	Adds commands for SNMP context to logical network entity mapping, including protocol instances and virtual routing and forwarding (VRF) instances.	4.0(2)
New NetFlow show commands	Adds commands to view NetFlow hardware flows.	4.0(2)

