



## New and Changed Information

This chapter provides release-specific information for each new and changed feature in the *Cisco Nexus 9000 Series NX-OS System Management Configuration Guide, Release 7.x*.

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## New and Changed Information

This table summarizes the new and changed features for the *Cisco Nexus 9000 Series NX-OS System Management Configuration Guide, Release 7.x* and tells you where they are documented.

**Table 1: New and Changed Features for Cisco NX-OS Release 7.x**

Feature	Description	Changed in Release	Where Documented
IEEE 802.1Qaz standards for DCBXP TLV	Added Support for the Cisco Nexus 9000 series switches.	7.0(3)I7(4)	<a href="#">About DCBXP</a>
Configuration Replace	Added Support for the <b>configure replace</b> command in maintenance mode.	7.0(3)I7(4)	<a href="#">Performing Configuration Replace</a>
SNMP	Added support for the <b>snmp-server counter cache timeout</b> command.	7.0(3)I7(4)	<a href="#">Managing the SNMP Server Counter Cache Update Timer</a>
NetFlow and SPAN	Added support for NetFlow and SPAN on Cisco Nexus 9336C-FX2 and Cisco Nexus 93240YC-FX2 switches.	7.0(3)I7(3)	<a href="#">Guidelines and Limitations for SPAN</a>
MPLS stripping	Added the ability to tag VLAN to the packets going out of redirect ports.	7.0(3)I7(3)	<a href="#">About MPLS Stripping</a> <a href="#">Guidelines and Limitations for MPLS Stripping</a> <a href="#">Enabling MPLS Stripping</a> <a href="#">Configuring the Incoming Port for the VLAN Tag</a>

Feature	Description	Changed in Release	Where Documented
Configuration replace	Introduced this feature.	7.0(3)I7(3)	<a href="#">Performing Configuration Replace</a>
NetFlow	Added support for the Cisco Nexus 9300-EX platform switches.	7.0(3)I7(2)	<a href="#">Configuring NetFlow</a>
TAP aggregation	Added support for the Cisco Nexus 9500 platform switches with N9K-X9700-EX and N9K-X9700-FX line cards.	7.0(3)I7(2)	<a href="#">Guidelines and Limitations for TAP Aggregation</a>
PTP	Added support for unicast communication on Cisco Nexus 9508 switches with N9K-X9636C-R, N9K-X9636C-RX, and N9K-X9636Q-R line cards.	7.0(3)F3(3)	<a href="#">Guidelines and Limitations for PTP</a> <a href="#">Configuring PTP Globally</a> <a href="#">Configuring PTP on an Interface</a>
ERSPAN	Added the ability to make the ERSPANv3 header RFC compliant.	7.0(3)I7(1)	<a href="#">Configuring an ERSPAN Source Session</a>
ERSPAN	Added the ability to truncate ERSPAN packets for Cisco Nexus 9300-EX and 9300-FX platform switches.	7.0(3)I7(1)	<a href="#">Configuring ERSPAN</a>
NetFlow	Introduced this feature.	7.0(3)I7(1)	<a href="#">Configuring NetFlow</a>
PTP	Added PTP support for the Cisco Nexus 9300-FX platform switches and PTP mixed mode support for Cisco Nexus 9396 switches.	7.0(3)I7(1)	<a href="#">Guidelines and Limitations for PTP</a>
SPAN	Added SPAN support for multicast Tx traffic across different leaf spine engine (LSE) slices on Cisco Nexus 9300-EX platform switches.	7.0(3)I7(1)	<a href="#">Configuring SPAN for Multicast Tx Traffic Across Different LSE Slices</a>
SPAN	Added the ability to truncate SPAN packets for Cisco Nexus 9300-EX and 9300-FX platform switches.	7.0(3)I7(1)	<a href="#">Configuring SPAN</a>
ERSPAN	Added support for IPv6 UDF-based ERSPAN.	7.0(3)I6(1)	<a href="#">Configuring UDF-Based ERSPAN</a>

Feature	Description	Changed in Release	Where Documented
NTP	Added the ability to scan the access group options in the following order, from least restrictive to most restrictive: peer, serve, serve-only, query-only.	7.0(3)I6(1)	<a href="#">Guidelines and Limitations for NTP</a> <a href="#">Configuring NTP Access Restrictions</a>
PTP	Added the ability to configure timestamp tagging.	7.0(3)I6(1)	<a href="#">Timestamp Tagging</a> <a href="#">Configuring Timestamp Tagging</a>
PTP	Added support for offloading PTP sessions.	7.0(3)I6(1)	<a href="#">Guidelines and Limitations for PTP</a> <a href="#">Configuring PTP Globally</a>
PTP	Updated support for PTP mixed and unicast mode.	7.0(3)I6(1)	<a href="#">Guidelines and Limitations for PTP</a>
SNMP	Added the ability to configure the SNMP local engine ID.	7.0(3)I6(1)	<a href="#">Guidelines and Limitations for SNMP</a> <a href="#">Configuring the SNMP Local Engine ID</a>
SPAN	Updated the SPAN guidelines and limitations for Cisco Nexus N9K-X9636C-R and N9K-X9636Q-R line cards.	7.0(3)F2(1)	<a href="#">Guidelines and Limitations for SPAN</a>
sFlow	Updated the sFlow guidelines and limitations for Cisco Nexus N9K-X9636C-R and N9K-X9636Q-R line cards.	7.0(3)F2(1)	<a href="#">Guidelines and Limitations for sFlow</a>
ERSPAN	Added Tx broadcast and multicast support for Layer 2 port sources.	7.0(3)I5(2)	<a href="#">Guidelines and Limitations for ERSPAN</a>
SPAN	Added Tx broadcast and multicast support for Layer 2 port sources.	7.0(3)I5(2)	<a href="#">Guidelines and Limitations for SPAN</a>
TAP aggregation	Added support for IPv4 ACLs with UDF-based match.	7.0(3)I5(2)	<a href="#">Guidelines and Limitations for TAP Aggregation</a>
Support for IPv6 ACLs	Added support for IPv6 ACLs for tap aggregation.	7.0(3)I5(1)	<a href="#">Configuring a TAP Aggregation Policy</a>
sFlow	Added support for the Cisco Nexus 9200 and 9300-EX Series switches.	7.0(3)I5(1)	<a href="#">Guidelines and Limitations for sFlow</a>

Feature	Description	Changed in Release	Where Documented
DCBXP	Added support for the Cisco Nexus 9200 and 9300-EX Series switches.	7.0(3)I5(1)	<a href="#">About LLDP</a>
GIR Enhancements	Added support for GIR enhancements.	7.0(3)I5(1)	<a href="#">Maintenance Mode Enhancements</a>
PTP Unicast Mode	Updated support for PTP unicast mode.	7.0(3)I4(5)	<a href="#">Assigning Master Role</a>
SNMP	Updated the MIBs information.	7.0(3)I4(2)	<a href="#">Enabling SNMP Notifications</a>
SPAN	Added support for the CPU as a SPAN destination for Cisco Nexus 9300-EX Series switches.	7.0(3)I4(2)	<a href="#">Configuring SPAN</a>
SNMP	Added the ability to span forward packet drops in the ingress pipeline for Cisco Nexus 9200 Series switches.	7.0(3)I4(1)	<a href="#">Enabling SNMP Notifications</a>
ERSPAN	Added the ability to span forward packet drops in the ingress pipeline for Cisco Nexus 9200 Series switches.	7.0(3)I4(1)	<a href="#">Configuring ERSPAN</a>
ERSPAN	Added the <b>set-erspan-gre-proto</b> and <b>set-erspan-dscp</b> actions to the ERSPAN ACL for Cisco Nexus 9200 Series switches.	7.0(3)I4(1)	<a href="#">Configuring ERSPAN</a>
ERSPAN and SPAN	Added support for user-defined field (UDF)-based ERSPAN and UDF-based SPAN for Cisco Nexus 9200 Series switches.	7.0(3)I4(1)	<a href="#">Configuring ERSPAN and Configuring SPAN</a>
ERSPAN and SPAN	Added support for the same source in multiple sessions.	7.0(3)I4(1)	<a href="#">Configuring ERSPAN and Configuring SPAN</a>
ERSPAN and SPAN	Added support for multiple ACL filters on the same source for Cisco Nexus 9300 and 9500 Series switches.	7.0(3)I4(1)	<a href="#">Configuring ERSPAN and Configuring SPAN</a>
SNMP	Added the ability to assign an IPv6 ACL to an SNMPv2 community or SNMPv3 user to filter SNMP requests.	7.0(3)I4(1)	<a href="#">Filtering SNMP Requests</a>

Feature	Description	Changed in Release	Where Documented
SPAN	Added support for the CPU as a SPAN destination for Cisco Nexus 9200 Series switches only.	7.0(3)I4(1)	<a href="#">Configuring SPAN</a>
LLDP	Added support for DCBXP.	7.0(3)I3(1)	<a href="#">Configuring LLDP</a>
System message logging	Added the ability to configure the origin ID for syslog messages.	7.0(3)I3(1)	<a href="#">Configuring the Origin ID for Syslog Messages</a>
Graceful insertion and removal (GIR)	Added shutdown support for vPC domains and isolate support for the PIM protocol.	7.0(3)I2(2)	<a href="#">Configuring Graceful Insertion and Removal</a>
LLDP	Added the <b>show lldp all</b> command.	7.0(3)I2(2)	<a href="#">Configuring LLDP</a>
ERSPAN	Added the <b>allow-pfc</b> option to the <b>source interface</b> command to allow the spanning of priority flow control (PFC) frames.	7.0(3)I2(1)	<a href="#">Configuring ERSPAN</a>
ERSPAN	Added egress interface information to the output of the <b>show monitor session</b> command.	7.0(3)I2(1)	<a href="#">Configuring ERSPAN</a>
ERSPAN	Added the ability to span forward packet drops in the ingress pipeline.	7.0(3)I2(1)	<a href="#">Configuring ERSPAN</a>
ERSPAN	Adds the <b>set-erspan-gre-proto</b> and <b>set-erspan-dscp</b> actions to the ERSPAN ACL.	7.0(3)I2(1)	<a href="#">Configuring ERSPAN</a>
ERSPAN and SPAN	Added support for user-defined field (UDF)-based ERSPAN and UDF-based SPAN.	7.0(3)I2(1)	<a href="#">Configuring ERSPAN and Configuring SPAN</a>
Graceful insertion and removal (GIR)	Introduced this feature.	7.0(3)I2(1)	<a href="#">Configuring Graceful Insertion and Removal</a>
MPLS stripping	Introduced this feature.	7.0(3)I2(1)	<a href="#">Configuring TAP Aggregation and MPLS Stripping</a>
sFlow	Introduced this feature.	7.0(3)I2(1)	<a href="#">Configuring sFlow</a>
Switch profiles (config-sync)	Introduced this feature.	7.0(3)I2(1)	<a href="#">Configuring Switch Profiles</a>

Feature	Description	Changed in Release	Where Documented
PortLoopback test	Changed the behavior from on demand to periodic (running every 30 minutes).	7.0(3)I1(2)	<a href="#">Runtime or Health Monitoring Diagnostics</a>
TAP aggregation	Added support for 100G ports.	7.0(3)I1(2)	<a href="#">Configuring TAP Aggregation and MPLS Stripping</a>
Precision Time Protocol (PTP)	Added support for all Cisco Nexus 9000 Series and 3164Q hardware except for the 100G 9408PC line card and the 100G M4PC generic expansion module (GEM).	7.0(3)I1(2)	<a href="#">Configuring PTP</a>
ERSPAN	Added support for ERSPAN Type III and 1588 timestamping in ERSPAN Type III packets.	7.0(3)I1(1)	<a href="#">Configuring ERSPAN</a>
Precision Time Protocol (PTP)	Introduced this feature for the Cisco Nexus 9332PQ, 9396PX, and 93128TX switches; the Cisco Nexus 9504 and 9508 switches with all of the PTP ports on a single X9636PQ line card; and the Cisco Nexus 3164Q switch.	7.0(3)I1(1)	<a href="#">Configuring PTP</a>
TAP aggregation	Introduced this feature.	7.0(3)I1(1)	<a href="#">Configuring TAP Aggregation and MPLS Stripping</a>