



## 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 9.3(x)*.

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## New and Changed Information

**Table 1: New and Changed Features**

Feature	Description	Changed in Release	Where Documented
Secure Erase	Added Secure Erase support for N9K-C93180YC-FX TOR with FEX C2348UPQ.	9.3(10)	<a href="#">Information about Secure Erase</a>
SMU Enhancements	No-reload options are supported for the SMU installation.  Reload SMU with non-disruptive (ND) ISSU to the same image version is supported.	9.3(9)	<a href="#">Guidelines and Limitations for SMUs</a> <a href="#">No-Reload Options for SMU Installation</a>
LocalizedV2key	A new keyword “localizedV2key” is introduced to support the old format where the keyword is “localizedkey”. All the SNMP configs will be intact (no config loss/config change) in the process of ISSU/ASCII replay.	9.3(8)	<a href="#">Configuring SNMP Users</a>

Feature	Description	Changed in Release	Where Documented
Authentication Protocols for SNMPv3	Provides authentication based on the Hash-Based Message Authentication Code (HMAC) Message Digest 5 (MD5) algorithm or the HMAC Secure Hash Algorithm (SHA).  Provides Data Encryption Standard (DES) 56-bit encryption in addition to authentication based on the Cipher Block Chaining (CBC) DES (DES-56) standard.	9.3(8)	<a href="#">Security Models and Levels for SNMPv1, v2, v3</a>  <a href="#">User-Based Security Model</a>
Config-replace - collect logs and reload when rollback 1st and 2nd try fails	In the event of CR failure plus failure to restore to the previous running configuration, support for the optional <b>on-failure reload</b> command to reload the switch to the previously saved startup configuration. This command is to be followed by the <b>save-startup-config</b> command to save the running config to startup.	9.3(7)	<a href="#">Performing a Configuration Replace</a>
SNMPv3 encryption with SHA256	Support for HMAC-SHA-256 authentication protocol for SNMPv3.	9.3(7)	<a href="#">User-Based Security Model</a>
Hide boot variable in running/starting config	Support for the <b>service exclude-bootconfig</b> command to exclude the <b>boot nxos image</b> configuration from <b>show</b> and <b>copy configuration</b> commands.	9.3(6)	<a href="#">Guidelines and Limitations for Configuration Replace</a>
PTPv1 Forwarding	<b>ptp forward-version1</b> command forwards all PTPv1 packets based on the forwarding rule and prevents these packets from being dropped.	9.3(6)	<a href="#">Configuring PTP Globally</a>  <a href="#">Guidelines and Limitations for PTP</a>

Feature	Description	Changed in Release	Where Documented
Event Log Auto-Collection and Backup	Updates to the auto-collection YAML file and additional options for the bloggerd log-snapshot command.	9.3(5)	<a href="#">Event Log Auto-Collection and Backup</a>
Configuration Replace	Support for FEX interface configuration modifications, port profiles, and configure jobs mode.	9.3(5)	<a href="#">Performing Configuration Replace</a>
SPAN Truncation	Support for SPAN truncation on Cisco Nexus 9300-GX platform switches.	9.3(5)	<a href="#">SPAN Limitations for the Cisco Nexus 9300 Platform Switches</a>
MacSecPortLoopback Test	Support for the bootup diagnostic test MacSecPortLoopback.	9.3(5)	<a href="#">Bootup Diagnostics</a>
ERSPAN Type III Header	Support for ERSPAN type III header on Cisco Nexus 9300-GX platform switches.	9.3(5)	<a href="#">Guidelines and Limitations for ERSPAN</a>
ERSPAN Destination Support	Support for ERSPAN destination on Cisco Nexus 9300-GX platform switches.	9.3(5)	<a href="#">Guidelines and Limitations for ERSPAN</a>
PTP and TTAG Support	Support for the Precision Time Protocol and timestamp tagging on Cisco Nexus 9300-GX platform switches.	9.3(5)	<a href="#">Guidelines and Limitations for PTP</a>
PTP Event-based Notifications	Support for configuring event-based notification for PTP error scenarios.	9.3(5)	<a href="#">Configuring PTP Notifications</a>
Syslog for Exceeding Logging Message Size Threshold	Support for logging message files to location that is persistent across system reloads.	9.3(5)	<a href="#">Logging System Messages to a File</a>
Modified Repeated System Logging Message Format	Support for an updated indicator in repeated syslog messages.	9.3(5)	<a href="#">Repeated System Logging Messages</a>

Feature	Description	Changed in Release	Where Documented
LLDP Multi-Neighbor and Port-Channel Interface Support	Support for up to three (3) LLDP neighbors per interface. Support for LLDP on interface port channels.	9.3(5)	<a href="#">Multiple LLDP Neighbors Per Physical Interface</a> <a href="#">Enabling or Disabling LLDP Support on Port-Channel Interfaces</a>
Frequency Synchronization (SyncE)	Support for ITU-compliant precision frequency over Ethernet ports and the PHY-level frequency distribution of known common precision frequency references.	9.3(5)	<a href="#">Configuring Frequency Synchronization</a>
Telecom Profile G.8275.1 and Telecom Profile G.8273.2	Support for ITU-T Telecom Profiles for PTP as defined in the ITU-T recommendation.	9.3(5)	<a href="#">ITU-T Telecom Profile for PTP</a>
Event Log Auto-Collection and Backup	Introduced support for extended on-switch and off-switch event logging file storage.	9.3(3)	<a href="#">Event Log Auto-Collection and Backup</a>
PTP Support	Added PTP support for Cisco Nexus 93360YC-FX2 and 93216TC-FX2 switches.	9.3(3)	<a href="#">Guidelines and Limitations for PTP</a>
MTU Configuration on Interfaces in Switch Profiles	Introduced support for configuring MTU in a switch profile configuration.	9.3(3)	<a href="#">Guidelines and Limitations for Switch Profiles</a>
sFlow and SPAN Support	Cisco Nexus 9300-GX platform switches support both sFlow and SPAN together on the same interface.	9.3(3)	<a href="#">Guidelines and Limitations for sFlow</a> <a href="#">SPAN Limitations for the Cisco Nexus 9300 Platform Switches</a>
Netflow Support	Netflow is supported on Cisco Nexus 9300-GX platform switches.	9.3(3)	<a href="#">Guidelines and Limitations for NetFlow</a>
Netflow ND-ISSU Limitation	Export loss is expected during an ND-ISSU.	9.3(3)	<a href="#">Guidelines and Limitations for NetFlow</a>
ASIC Register Health Monitor Check	The ASICRegisterCheck is added as a health monitor diagnostic.	9.3(3)	<a href="#">Runtime or Health Monitoring Diagnostics</a>

Feature	Description	Changed in Release	Where Documented
ISSU RPM Patching	Added support for ISSU RPM patching.	9.3(1)	
Configuration replace	Added support for semantic validation of configuration replace commands.	9.3(1)	<a href="#">Recommended Workflow for Configuration Replace</a> <a href="#">Performing a Configuration Replace</a>
ERSPAN	Added support for Cisco Nexus 9200, 9300-EX, and 9300-FX platform switches.	9.3(1)	<a href="#">Guidelines and Limitations for ERSPAN</a>
NetFlow	Added support for the Cisco Nexus 9500 platform switches with 9300-FX line cards.	9.3(1)	<a href="#">Guidelines and Limitations for NetFlow</a>
Online diagnostics and EEM	Introduced corrective actions for the AsicMemory, BootupPortLoopback, FpgaRegTest, and L2ACLRedirect tests.	9.3(1)	<a href="#">Runtime or Health Monitoring Diagnostics</a> <a href="#">EEM System Policies</a>
PTP offload	Added support for the Cisco Nexus 9500 platform switches with 9700-EX and 9700-FX line cards.	9.3(1)	<a href="#">PTP Offload</a>
PTP one-step clock mode	Configurable on Cisco Nexus 9636C-R and 9636Q-R line cards.	9.3(1)	<a href="#">Clock Modes</a> <a href="#">Guidelines and Limitations for PTP</a>
PTP timestamp tagging	Added support for Cisco Nexus 9200, 9300-EX, and 9300-FX switches and Cisco Nexus 9500 platform switches with 9700-EX and 9700-FX line cards.	9.3(1)	<a href="#">Guidelines and Limitations for PTP</a>
sFlow and SPAN together	Added support for Cisco Nexus 9336C-FX2, 93240YC-FX2, and 93360YC-FX2 switches.	9.3(1)	<a href="#">SPAN Limitations for the Cisco Nexus 9300 Platform Switches</a> <a href="#">Guidelines and Limitations for sFlow</a>

Feature	Description	Changed in Release	Where Documented
SPAN truncation	Added support for the Cisco Nexus 9500 platform switches with 9700-EX and 9700-FX line cards.	9.3(1)	<a href="#">SPAN Limitations for the Cisco Nexus 9500 Platform Switches</a>