



Cisco Nexus 9000 Series NX-OS Release Notes, Release 7.0(3)I4(8z)

This document describes the features, caveats, and limitations for Cisco NX-OS Release 7.0(3)I4(8z) software for use on the following switches:

- Cisco Nexus 9000 Series
- Cisco Nexus 31128PQ
- Cisco Nexus 3164Q
- Cisco Nexus 3232C
- Cisco Nexus 3264Q

Use this document in combination with documents listed in *Related Documentation*.

NOTE: Cisco NX-OS Release 7.0(3)I4(8z) is a patch software release with a fix for specific issues as identified in the Resolved Caveats table. You should refer to the NX-OS System Software Release directory for general deployment software.

[Table 1](#) shows the online change history for this document.

Table 1 Online History Change

Date	Description
September 28, 2020	Upgrade and Downgrade section revised.
January 24, 2020	Added CSCvc95008 to Known Behaviors .
July 25, 2018	Added CSCuy08187 to the Open Caveats .
July 11, 2018	Created the release notes for Release 7.0(3)I4(8z).

Introduction

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Introduction

Cisco NX-OS software is a data center-class operating system designed for performance, resiliency, scalability, manageability, and programmability at its foundation. The Cisco NX-OS software provides a robust and comprehensive feature set that meets the requirements of virtualization and automation in mission-critical data center environments. The modular design of the Cisco NX-OS operating system makes zero-impact operations a reality and enables exceptional operational flexibility.

The Cisco Nexus 9000 Series uses an enhanced version of Cisco NX-OS software with a single binary image that supports every switch in the series, which simplifies image management.

System Requirements

This section includes the following sections:

- Supported Cisco Software Releases
- Supported Device Hardware
- Supported Optics
- Supported FEX Modules

Supported Cisco Software Releases

[Table 2](#) summarizes information about the Cisco Nexus platforms and software release versions that Cisco OpenFlow Plug-in supports.

Table 2 Cisco Plug-in for OpenFlow Compatibility Matrix

Switches	Cisco Plug-in for OpenFlow
Cisco Nexus 9300 platform switches and Cisco Nexus 31128PQ, 3232C, and 3264Q switches NX-OS 7.0(3)I3(1) and later	ofa-2.1.4-r2-nxos-SPA-k9.ova
Cisco Nexus 9300 platform switches and Cisco Nexus 31128PQ switches NX-OS 7.0(3)I2(1)	ofa-2.1.0-r1-nxos-SPA-k9.ova

Supported Device Hardware

The tables below list the Cisco Nexus 9000 Series hardware that Cisco NX-OS Release 7.0(3)I4(8z) supports. For additional information about the supported hardware, see the *Hardware Installation Guide* for your Cisco Nexus 9000 Series device.

- [Table 3](#) lists the Cisco Nexus 9000 Series fabric modules

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- [Table 4](#) lists the Cisco Nexus 9000 Series fans and fan trays
- [Error! Reference source not found.](#) lists the Cisco Nexus 9000 Series line cards
- [Table 6](#) Cisco Nexus 9000 Series Power Supplies

Product ID	Description	Quantity
N9K-PAC-650W	650-W AC power supply, port-side intake airflow (burgundy coloring) <i>Note:</i> Supports the Cisco Nexus 9332PQ, 9372PX, 9372PX-E, 9372TX, 9372TX-E, 9396PX, and 9396TX switches.	■ 2
N9K-PAC-650W-B	650-W AC power supply, port-side exhaust airflow (blue coloring) <i>Note:</i> Supports the Cisco Nexus 9332PQ, 9372PX, 9372PX-E, 9372TX, 9372TX-E, 9396PX, and 9396TX switches.	■ 2
N9K-PAC-1200W	1200-W AC power supply, port-side intake airflow (burgundy coloring) <i>Note:</i> Supports the Cisco Nexus 93120TX switches.	■ 2
N9K-PAC-1200W-B	1200-W AC power supply, port-side exhaust airflow (blue coloring) <i>Note:</i> Supports the Cisco Nexus 93120TX switches.	■ 2
N9K-PAC-3000W-B	3000-W AC power supply <i>Note:</i> Supports the Cisco Nexus 9504, 9508, and 9516 switches.	<ul style="list-style-type: none"> ■ Up to 4 (Cisco Nexus 9504) ■ Up to 8 (Cisco Nexus 9508) ■ Up to 10 (Cisco Nexus 9516)
N9K-PDC-3000W-B	3000-W DC power supply <i>Note:</i> Supports the Cisco Nexus 9504, 9508, and 9516 switches.	<ul style="list-style-type: none"> ■ Up to 4 (Cisco Nexus 9504) ■ Up to 8 (Cisco Nexus 9508) ■ Up to 10 (Cisco Nexus 9516)
N9K-PUV-1200W	1200-W AC power supply (airflow direction determined by the installed fan modules) <i>Note:</i> Supports all of the Cisco Nexus 9200 and 9300 NX-OS mode switches.	■ 2
N9K-PUV-3000W-B	3000-W Universal AC/DC power supply	<ul style="list-style-type: none"> ■ Up to 4 (Cisco Nexus 9504) ■ Up to 8 (Cisco Nexus 9508) ■ Up to 10 (Cisco Nexus 9516)

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NXA-PAC-650W-PE	Nexus 650W power supply port side exhaust. <i>Note:</i> Supports the Cisco Nexus 92160YC-X, 92304QC, and 9236C switches.	■ 2
NXA-PAC-650W-PI	Nexus 6500W power supply port side intake. <i>Note:</i> Supports the Cisco Nexus 92160YC-X, 92304QC, and 9236C switches.	■ 2
UCSC-PSU-930WDC	930-W DC power supply with port-side intake airflow <i>Note:</i> Supports all Cisco Nexus 9200 and 9300 NX-OS mode switches.	■ 2
UCS-PSU-6332-DC	930-W DC power supply with port-side exhaust airflow <i>Note:</i> Supports all Cisco Nexus 9200 and 9300 NX-OS mode switches.	■ 2

Table 7 Cisco Nexus 9500 Platform Supervisor Modules

Product ID	Description	Quantity
N9K-SUP-A	Cisco Nexus 9500 platform supervisor A module with 4 cores	■ 2
N9K-SUP-B	Cisco Nexus 9500 platform supervisor B module with 6 cores	■ 2

Table 8 Cisco Nexus 9000 Series Switches

Product ID	Description	Quantity
N9K-C9236C	Cisco Nexus 9236C 1-RU switch with 36 40-/100-Gigabit QSFP28 ports (144 10-/25-Gigabit ports when using breakout cables). <i>Note:</i> Beginning with Cisco NX-OS Release 7.0(3)I4(3), 25G CVR-2QSFP28-8SFP adapters are supported on the Cisco Nexus 9236C switches.	■ 1
N9K-C9272Q	Cisco Nexus 9272Q 2-RU switch with 72 40-Gigabit Ethernet QSFP+ ports (up to 35 of the ports [ports 37-71] also support breakout cables providing up to 140 10-Gigabit connections)	■ 1
N9K-C9332PQ	Cisco Nexus 9332PQ 1-RU switch with 32 40-Gigabit Ethernet QSFP+ ports and supports 4x10G breakout mode for ports 1 to 26 (except ports 13 and 14). Ports 27 to 32 (ALE uplink ports) support using the QSFP-to-SFP+ Adapter (QSA) for 10-Gigabit SFP/SFP+ transceivers in QSFP+ ports.	■ 1

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N9K-C9372PX	Cisco Nexus 9372PX 1-RU switch with 48 1-/10-Gigabit Ethernet SFP+ ports and 6 40-Gigabit Ethernet QSFP+ ports.	■ 1
N9K-C9372PX-E	An enhanced version of the N9K-C9372PX switch.	■ 1
N9K-C9372TX	Cisco Nexus 9372TX 1-RU switch with 48 1/10GBASE-T ports and 6 40-Gigabit Ethernet QSFP+ ports.	■ 1
N9K-C9372TX-E	An enhanced version of the N9K-C9372TX switch.	■ 1
N9K-C9396PX	Cisco Nexus 9396PX 1-RU switch with 48 1-/10-Gigabit Ethernet SFP+ ports and an uplink module with up to 12 40-Gigabit Ethernet QSPF+ ports	■ 1
N9K-C9396TX	Cisco Nexus 9396TX 1-RU switch with 48 1/10GBASE-T and an uplink module with up to 12 40-Gigabit Ethernet QSFP+ ports	■ 1
N9K-C9504	Cisco Nexus 9504 4-slot modular switch	■ 1
N9K-C9508	Cisco Nexus 9508 8-slot modular switch	■ 1
N9K-C9516	Cisco Nexus 9516 16-slot modular switch	■ 1
N9K-C92160YC-X	Cisco Nexus 92160YC-X 1-RU switch with 48 10-/25-Gigabit SFP+ ports and 6 40-Gigabit QSFP+ ports (4 of these ports support 100-Gigabit QSFP28 optics).	■ 1
N9K-C92304QC	Cisco Nexus 92304QC 2-RU switch with 56 40-Gigabit Ethernet ports (64 10-Gigabit ports if using breakout cables) and 8 100-Gigabit ports.	■ 1
N9K-C93120TX	Cisco Nexus 93120TX 2RU switch with 96 1/10GBASE-T ports and 6 40-Gigabit QSFP+ uplink ports.	■ 1
N9K-C93128TX	Cisco Nexus 93128TX 3-RU switch with 96 1/10GBASE-T ports and an uplink module that supports up to 8 40-Gigabit Ethernet QSPF+ ports (the 1/10GBASE-T ports also support a speed of 100 Megabits per second.)	■ 1
N9K-C93108TC-EX	Cisco Nexus 93108TC-EX 1-RU switch with 48 10GBASE-T ports and 6 40/100-Gigabit QSFP28 ports.	■ 1
N9K-C93180YC-EX	Cisco Nexus 93180YC-EX 1-RU switch with 48 10-/25-Gigabit Ethernet ports and 6 40/100-Gigabit QSFP28 ports.	■ 1

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Table 9 Cisco Nexus 9000 Series Uplink Modules

Product ID	Description	Quantity
N9K-M4PC-CFP2	Cisco Nexus 9300 uplink module with 4 100-Gigabit Ethernet CFP2 ports. For the Cisco Nexus 93128TX switch, only two of the ports are active. For the Cisco Nexus 9396PX and 9396TX switches, all four ports are active.	■ 1
N9K-M6PQ	Cisco Nexus 9300 uplink module with 6 40-Gigabit Ethernet QSFP+ ports for the Cisco Nexus 9396PX, 9396TX, and 93128TX switches. <i>Note:</i> The front-panel ports on these uplink modules do not support auto negotiation with copper cables. You can manually configure the speed on the peer switch.	■ 1
N9K-M6PQ-E	An enhanced version of the Cisco Nexus N9K-M6PQ uplink module.	■
N9K-M12PQ	Cisco Nexus 9300 uplink module with 12 40-Gigabit Ethernet QSPF+ ports. <i>Note:</i> The front-panel ports on these uplink modules do not support auto negotiation with copper cables. You can manually configure the speed on the peer switch.	■ 1 (required)

Table 10 Cisco Nexus 9500 Platform System Controller

Product ID	Description	Quantity
N9K-SC-A	Cisco Nexus 9500 Platform System Controller Module	■ 2

Table 11 Cisco Nexus 3232C and 3264Q Switch Hardware

Product ID	Description	Quantity
N3K-C3232C	Cisco Nexus 3232C, 32 x 40G/100G 2 x 10G SFP+, 1-RU switch	■ 1
N3K-C3264Q	Cisco Nexus 3264Q, 64 x 40G 2 x 10G SFP+, 2-RU switch	■ 1

NOTE: Beginning with Cisco NX-OS Release 7.0(3)I4(3), 25G CVR-2QSFP28-8SFP is supported on the Cisco Nexus 3232C switches.

Table 12 Cisco Nexus 3164Q Switch Hardware

Product ID	Description	Quantity
N3K-C3164Q-40GE	Cisco Nexus 3164Q, 64 x 40G SFP+, 2-RU switch	■ 1
N9K-C9300-FAN3	Cisco Nexus 3164Q fan module	■ 3

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N9K-PAC-1200W	Cisco Nexus 3164Q 1200W AC power supply	■ 2
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Table 13 Cisco Nexus 3164Q Switch Hardware

Product ID	Description	Quantity
N3K-C3164Q-40GE	Cisco Nexus 3164Q, 64 x 40G SFP+, 2-RU switch	■ 1
N9K-C9300-FAN3	Cisco Nexus 3164Q fan module	■ 3
N9K-PAC-1200W	Cisco Nexus 3164Q 1200W AC power supply	■ 2

NOTE: The Cisco Nexus M6PQ-E uplink module and the Cisco Nexus 9372PX-E and 9372TX-E switches need to run the following minimum Cisco NX-OS releases:

- 7.0(3)I2(2d)
 - 7.0(3)I2(2e)
 - 7.0(3)I3(2)
 - 7.0(3)I4(1)
- lists the Cisco Nexus 9000 Series power supplies
 - [Error! Reference source not found.](#) lists the Cisco Nexus 9000 Series supervisor modules
 - [Error! Reference source not found.](#) lists the Cisco Nexus 9000 Series system controllers
 - [Error! Reference source not found.](#) lists the Cisco Nexus 9000 Series uplink modules
 - [Error! Reference source not found.](#) lists the 3232C and 3264Q switch hardware
 - [Error! Reference source not found.](#) lists the Cisco Nexus 3164Q switch hardware
 - [Error! Reference source not found.](#) lists the Cisco Nexus 31128PQ switch hardware

Table 3 Cisco Nexus 9000 Series Fabric Modules

Product ID	Hardware	Quantity
N9K-C9504-FM	Cisco Nexus 9504 40-Gigabit fabric module	3 to 6 depending on line cards
N9K-C9504-FM-E	100-Gigabit -E fabric module (for the Cisco Nexus 9504 chassis) that supports the 100-Gigabit (-EX) line cards. When used, there must be 4 of these fabric modules installed in fabric slots 22, 23, 24, and 26.	4
N9K-C9504-FM-S	100-Gigabit -S fabric module (for the Cisco Nexus 9504 chassis) that supports the 100-Gigabit (-S) line cards. When used, there must be 4 of these fabric modules installed in fabric slots 22, 23, 24, and 26.	4

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N9K-C9508-FM	Cisco Nexus 9508 Series 40-Gigabit fabric module	3-6 depending on the line cards
N9K-C9508-FM-E	100-Gigabit -E fabric module (for the Cisco Nexus 9508 chassis) that supports the 100-Gigabit (-EX) line cards. When used, there must be 4 of these fabric modules installed in fabric slots 22, 23, 24, and 26.	4
N9K-C9508-FM-S	100-Gigabit -S fabric module (for the Cisco Nexus 9508 chassis) that supports the 100-Gigabit (-S) line cards. When used, there must be 4 of these fabric modules installed in fabric slots 22, 23, 24, and 26.	4
N9K-C9516-FM	Cisco Nexus 9500 platform 40-Gigabit fabric module	3-6 depending on the line cards

Table 4 Cisco Nexus 9000 Series Fans and Fan Trays

Product ID	Hardware	Quantity
N9K-C9300-FAN1	Cisco Nexus 9300 fan 1 module with port-side intake airflow (burgundy coloring) <i>Note:</i> Supports early versions of the Cisco Nexus 9396 switch (N9K-C9396PX).	3
N9K-C9300-FAN1-B	Cisco Nexus 9300 fan 1 module with port-side exhaust airflow (blue coloring) <i>Note:</i> Supports early versions of the Cisco Nexus 9396 switch (N9K-C9396PX).	3
N9K-C9300-FAN2	Cisco Nexus 9300 fan 2 module with port-side intake airflow (burgundy coloring) <i>Note:</i> Supports the Cisco Nexus 93128TX, 9396PX, and 9396TX switches.	3
N9K-C9300-FAN2-B	Cisco Nexus 9300 fan 2 module with port-side exhaust airflow (blue coloring) <i>Note:</i> Supports the Cisco Nexus 93128TX, 9396PX, and 9396TX switches.	3
N9K-C9300-FAN3	Cisco Nexus 9300 fan 2 module with port-side intake airflow (burgundy coloring) <i>Note:</i> Supports the Cisco Nexus 93120TX, 92304QC, and 9272Q switches.	2

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N9K-C9300-FAN3-B	Cisco Nexus 9300 fan 2 module with port-side exhaust airflow (blue coloring) Note: Supports the Cisco Nexus 93120TX, 92304QC, and 9272Q switches.	2
N9K-C9504-FAN	Cisco Nexus 9504 fan tray	3
N9K-C9508-FAN	Cisco Nexus 9508 fan tray	3
NXA-FAN-30CFM-B	Cisco Nexus 9200 and 9300 fan module with port-side intake airflow (burgundy coloring) Note: Supports the Cisco Nexus 92160YC-X, 9236C, 93108TC-EX, 93180YC-EX, 9332PQ, 9372PX, 9372PX-E, 9372TX, and 9372TX-E switches.	4
NXA-FAN-30CFM-F	Cisco Nexus 9200 and 9300 fan module with port-side exhaust airflow (blue coloring) Note: Supports the Cisco Nexus 92160YC-X, 9236C, 93108TC-EX, 93180YC-EX, 9332PQ, 9372PX, 9372PX-E, 9372TX, and 9372TX-E switches.	4

Table 5 Cisco Nexus 9500 Platform Line Cards

Product ID	Description	Quantity
N9K-X9408PC-CFP2	Line card with 8 100-Gigabit CFP2 ports (supported by 40-Gigabit fabric modules [N9K-C9504-FM, N9K-C9508-FM, and N9K-9516FM])	<ul style="list-style-type: none"> ■ 4 (Cisco Nexus 9504) ■ 8 (Cisco Nexus 9508) ■ 16 (Cisco Nexus 9516)
N9K-X9432C-S	Line card with 32 100-Gigabit QSFP28 ports (supported by four 100-Gigabit -S fabric modules [N9K-C9504-FM-S and N9K-C9508-FM-S])	<ul style="list-style-type: none"> ■ 4 (Cisco Nexus 9504) ■ 8 (Cisco Nexus 9508)
N9K-X9432PQ	Line card with 32 40-Gigabit QSFP+ ports (supported by 40-Gigabit fabric modules [N9K-C9504-FM, N9K-C9508-FM, and N9K-9516FM]) Note: This line card supports static breakout.	<ul style="list-style-type: none"> ■ 4 (Cisco Nexus 9504) ■ 8 (Cisco Nexus 9508) ■ 16 (Cisco Nexus 9516)
N9K-X9464PX	Line card with 48 10-Gigabit SFP+ ports and 4 40-Gigabit QSFP+ ports (supported by 40-Gigabit fabric modules [N9K-C9504-FM, N9K-C9508-FM, and N9K-9516FM])	<ul style="list-style-type: none"> ■ 4 (Cisco Nexus 9504) ■ 8 (Cisco Nexus 9508) ■ 16 (Cisco Nexus 9516)
N9K-X9464TX	Line card with 48 10GBASE-T ports and 4 40-Gigabit QSFP+ ports (supported by 40-Gigabit fabric modules [N9K-C9504-FM, N9K-C9508-FM, and N9K-9516FM])	<ul style="list-style-type: none"> ■ 4 (Cisco Nexus 9504) ■ 8 (Cisco Nexus 9508) ■ 16 (Cisco Nexus 9516)

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N9K-X9464TX2	Line card with 48 1-/10GBASE-T ports and 4 40-Gigabit QSFP+ ports (supported by 40-Gigabit fabric modules [N9K-C9504-FM, N9K-C9508-FM, and N9K-9516FM])	<ul style="list-style-type: none"> ■ 4 (Cisco Nexus 9504) ■ 8 (Cisco Nexus 9508) ■ 16 (Cisco Nexus 9516)
N9K-X9536PQ	Line card with 36 40-Gigabit Ethernet QSFP+ ports (supported by 40-Gigabit fabric modules [N9K-C9504-FM, N9K-C9508-FM, and N9K-9516FM])	<ul style="list-style-type: none"> ■ 4 (Cisco Nexus 9504) ■ 8 (Cisco Nexus 9508) ■ 16 (Cisco Nexus 9516)
N9K-X9564PX	Line card with 48 1-/10-Gigabit SFP+ ports and 4 40-Gigabit QSFP+ ports (supported by 40-Gigabit fabric modules [N9K-C9504-FM, N9K-C9508-FM, and N9K-9516FM])	<ul style="list-style-type: none"> ■ 4 (Cisco Nexus 9504) ■ 8 (Cisco Nexus 9508) ■ 16 (Cisco Nexus 9516)
N9K-X9564TX	Line card with 48 1-/10-GBASE-T ports and 4 40-Gigabit QSFP+ ports (supported by 40-Gigabit fabric modules [N9K-C9504-FM, N9K-C9508-FM, and N9K-9516FM])	<ul style="list-style-type: none"> ■ 4 (Cisco Nexus 9504) ■ 8 (Cisco Nexus 9508) ■ 16 (Cisco Nexus 9516)
N9K-X9636PQ	Line card with 36 40-Gigabit QSFP+ ports (supported by 40-Gigabit fabric modules [N9K-C9504-FM and N9K-C9508-FM]) <i>Note:</i> Not supported on the Cisco Nexus 9516 switch (N9K-C9516).	<ul style="list-style-type: none"> ■ 4 (Cisco Nexus 9504) ■ 8 (Cisco Nexus 9508)
N9K-X9732C-EX	Line card with 32 40-/100-Gigabit Ethernet QSFP28 ports (supported by 100-Gigabit -E fabric modules [N9K-C9504-FM-E and N9K-C9508-FM-E])	<ul style="list-style-type: none"> ■ 4 (Cisco Nexus 9504) ■ 8 (Cisco Nexus 9508)

Table 6 Cisco Nexus 9000 Series Power Supplies

Product ID	Description	Quantity
N9K-PAC-650W	650-W AC power supply, port-side intake airflow (burgundy coloring) <i>Note:</i> Supports the Cisco Nexus 9332PQ, 9372PX, 9372PX-E, 9372TX, 9372TX-E, 9396PX, and 9396TX switches.	<ul style="list-style-type: none"> ■ 2
N9K-PAC-650W-B	650-W AC power supply, port-side exhaust airflow (blue coloring) <i>Note:</i> Supports the Cisco Nexus 9332PQ, 9372PX, 9372PX-E, 9372TX, 9372TX-E, 9396PX, and 9396TX switches.	<ul style="list-style-type: none"> ■ 2
N9K-PAC-1200W	1200-W AC power supply, port-side intake airflow (burgundy coloring) <i>Note:</i> Supports the Cisco Nexus 93120TX switches.	<ul style="list-style-type: none"> ■ 2

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N9K-PAC-1200W-B	1200-W AC power supply, port-side exhaust airflow (blue coloring) <i>Note:</i> Supports the Cisco Nexus 93120TX switches.	■ 2
N9K-PAC-3000W-B	3000-W AC power supply <i>Note:</i> Supports the Cisco Nexus 9504, 9508, and 9516 switches.	■ Up to 4 (Cisco Nexus 9504) ■ Up to 8 (Cisco Nexus 9508) ■ Up to 10 (Cisco Nexus 9516)
N9K-PDC-3000W-B	3000-W DC power supply <i>Note:</i> Supports the Cisco Nexus 9504, 9508, and 9516 switches.	■ Up to 4 (Cisco Nexus 9504) ■ Up to 8 (Cisco Nexus 9508) ■ Up to 10 (Cisco Nexus 9516)
N9K-PUV-1200W	1200-W AC power supply (airflow direction determined by the installed fan modules) <i>Note:</i> Supports all of the Cisco Nexus 9200 and 9300 NX-OS mode switches.	■ 2
N9K-PUV-3000W-B	3000-W Universal AC/DC power supply	■ Up to 4 (Cisco Nexus 9504) ■ Up to 8 (Cisco Nexus 9508) ■ Up to 10 (Cisco Nexus 9516)
NXA-PAC-650W-PE	Nexus 650W power supply port side exhaust. <i>Note:</i> Supports the Cisco Nexus 92160YC-X, 92304QC, and 9236C switches.	■ 2
NXA-PAC-650W-PI	Nexus 6500W power supply port side intake. <i>Note:</i> Supports the Cisco Nexus 92160YC-X, 92304QC, and 9236C switches.	■ 2
UCSC-PSU-930WDC	930-W DC power supply with port-side intake airflow <i>Note:</i> Supports all Cisco Nexus 9200 and 9300 NX-OS mode switches.	■ 2
UCS-PSU-6332-DC	930-W DC power supply with port-side exhaust airflow <i>Note:</i> Supports all Cisco Nexus 9200 and 9300 NX-OS mode switches.	■ 2

Table 7 Cisco Nexus 9500 Platform Supervisor Modules

Product ID	Description	Quantity
N9K-SUP-A	Cisco Nexus 9500 platform supervisor A module with 4 cores	■ 2

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N9K-SUP-B	Cisco Nexus 9500 platform supervisor B module with 6 cores	■ 2
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Table 8 Cisco Nexus 9000 Series Switches

Product ID	Description	Quantity
N9K-C9236C	Cisco Nexus 9236C 1-RU switch with 36 40-/100-Gigabit QSFP28 ports (144 10-/25-Gigabit ports when using breakout cables). Note: Beginning with Cisco NX-OS Release 7.0(3)I4(3), 25G CVR-2QSFP28-8SFP adapters are supported on the Cisco Nexus 9236C switches.	■ 1
N9K-C9272Q	Cisco Nexus 9272Q 2-RU switch with 72 40-Gigabit Ethernet QSFP+ ports (up to 35 of the ports [ports 37-71] also support breakout cables providing up to 140 10-Gigabit connections)	■ 1
N9K-C9332PQ	Cisco Nexus 9332PQ 1-RU switch with 32 40-Gigabit Ethernet QSFP+ ports and supports 4x10G breakout mode for ports 1 to 26 (except ports 13 and 14). Ports 27 to 32 (ALE uplink ports) support using the QSFP-to-SFP+ Adapter (QSA) for 10-Gigabit SFP/SFP+ transceivers in QSFP+ ports.	■ 1
N9K-C9372PX	Cisco Nexus 9372PX 1-RU switch with 48 1-/10-Gigabit Ethernet SFP+ ports and 6 40-Gigabit Ethernet QSFP+ ports.	■ 1
N9K-C9372PX-E	An enhanced version of the N9K-C9372PX switch.	■ 1
N9K-C9372TX	Cisco Nexus 9372TX 1-RU switch with 48 1/10GBASE-T ports and 6 40-Gigabit Ethernet QSFP+ ports.	■ 1
N9K-C9372TX-E	An enhanced version of the N9K-C9372TX switch.	■ 1
N9K-C9396PX	Cisco Nexus 9396PX 1-RU switch with 48 1-/10-Gigabit Ethernet SFP+ ports and an uplink module with up to 12 40-Gigabit Ethernet QSPF+ ports	■ 1
N9K-C9396TX	Cisco Nexus 9396TX 1-RU switch with 48 1/10GBASE-T and an uplink module with up to 12 40-Gigabit Ethernet QSFP+ ports	■ 1
N9K-C9504	Cisco Nexus 9504 4-slot modular switch	■ 1
N9K-C9508	Cisco Nexus 9508 8-slot modular switch	■ 1
N9K-C9516	Cisco Nexus 9516 16-slot modular switch	■ 1

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N9K-C92160YC-X	Cisco Nexus 92160YC-X 1-RU switch with 48 10-/25-Gigabit SFP+ ports and 6 40-Gigabit QSFP+ ports (4 of these ports support 100-Gigabit QSFP28 optics).	■ 1
N9K-C92304QC	Cisco Nexus 92304QC 2-RU switch with 56 40-Gigabit Ethernet ports (64 10-Gigabit ports if using breakout cables) and 8 100-Gigabit ports.	■ 1
N9K-C93120TX	Cisco Nexus 93120TX 2RU switch with 96 1/10GBASE-T ports and 6 40-Gigabit QSFP+ uplink ports.	■ 1
N9K-C93128TX	Cisco Nexus 93128TX 3-RU switch with 96 1/10GBASE-T ports and an uplink module that supports up to 8 40-Gigabit Ethernet QSFP+ ports (the 1/10GBASE-T ports also support a speed of 100 Megabits per second.)	■ 1
N9K-C93108TC-EX	Cisco Nexus 93108TC-EX 1-RU switch with 48 10GBASE-T ports and 6 40/100-Gigabit QSFP28 ports.	■ 1
N9K-C93180YC-EX	Cisco Nexus 93180YC-EX 1-RU switch with 48 10-/25-Gigabit Ethernet ports and 6 40/100-Gigabit QSFP28 ports.	■ 1

Table 9 Cisco Nexus 9000 Series Uplink Modules

Product ID	Description	Quantity
N9K-M4PC-CFP2	Cisco Nexus 9300 uplink module with 4 100-Gigabit Ethernet CFP2 ports. For the Cisco Nexus 93128TX switch, only two of the ports are active. For the Cisco Nexus 9396PX and 9396TX switches, all four ports are active.	■ 1
N9K-M6PQ	Cisco Nexus 9300 uplink module with 6 40-Gigabit Ethernet QSFP+ ports for the Cisco Nexus 9396PX, 9396TX, and 93128TX switches. <i>Note:</i> The front-panel ports on these uplink modules do not support auto negotiation with copper cables. You can manually configure the speed on the peer switch.	■ 1
N9K-M6PQ-E	An enhanced version of the Cisco Nexus N9K-M6PQ uplink module.	■

System Requirements

N9K-M12PQ	Cisco Nexus 9300 uplink module with 12 40-Gigabit Ethernet QSPF+ ports. <i>Note:</i> The front-panel ports on these uplink modules do not support auto negotiation with copper cables. You can manually configure the speed on the peer switch.	■ 1 (required)
-----------	--	----------------

Table 10 Cisco Nexus 9500 Platform System Controller

Product ID	Description	Quantity
N9K-SC-A	Cisco Nexus 9500 Platform System Controller Module	■ 2

Table 11 Cisco Nexus 3232C and 3264Q Switch Hardware

Product ID	Description	Quantity
N3K-C3232C	Cisco Nexus 3232C, 32 x 40G/100G 2 x 10G SFP+, 1-RU switch	■ 1
N3K-C3264Q	Cisco Nexus 3264Q, 64 x 40G 2 x 10G SFP+, 2-RU switch	■ 1

NOTE: Beginning with Cisco NX-OS Release 7.0(3)I4(3), 25G CVR-2QSFP28-8SFP is supported on the Cisco Nexus 3232C switches.

Table 12 Cisco Nexus 3164Q Switch Hardware

Product ID	Description	Quantity
N3K-C3164Q-40GE	Cisco Nexus 3164Q, 64 x 40G SFP+, 2-RU switch	■ 1
N9K-C9300-FAN3	Cisco Nexus 3164Q fan module	■ 3
N9K-PAC-1200W	Cisco Nexus 3164Q 1200W AC power supply	■ 2

Table 13 Cisco Nexus 3164Q Switch Hardware

Product ID	Description	Quantity
N3K-C3164Q-40GE	Cisco Nexus 3164Q, 64 x 40G SFP+, 2-RU switch	■ 1
N9K-C9300-FAN3	Cisco Nexus 3164Q fan module	■ 3
N9K-PAC-1200W	Cisco Nexus 3164Q 1200W AC power supply	■ 2

NOTE: The Cisco Nexus M6PQ-E uplink module and the Cisco Nexus 9372PX-E and 9372TX-E switches need to run the following minimum Cisco NX-OS releases:

- 7.0(3)I2(2d)
- 7.0(3)I2(2e)
- 7.0(3)I3(2)
- 7.0(3)I4(1)

Supported Optics

See the [Cisco 10-Gigabit Ethernet Transceiver Modules Compatibility Matrix](#) for a list of supported optical components.

Supported FEX Modules

Cisco NX-OS Release 7.0(3)I4(8z) supports the following FEXes (Fabric extenders) on Cisco Nexus 9332PQ, 9372PX, 9372PX-E, 9396PX and 9500 Platform Switches:

- Cisco Nexus 2224TP
- Cisco Nexus 2232PP
- Cisco Nexus 2232TM and 2232TM-E
- Cisco Nexus 2248PQ
- Cisco Nexus 2248TP and 2248TP-E
- Cisco Nexus 2348TQ
- Cisco Nexus 2348UPQ
- Cisco Nexus B22Dell
- Cisco Nexus B22HP
- Cisco Nexus NB22FTS
- Cisco Nexus NB22IBM

Note: Please note the following:

- The 9408 and line card is not supported with the 2300 FEX.
- Cisco Nexus 9300 platform switches do not support FEX on uplink modules (ALE).
- For FEX HIF port channels, we recommend that you enable STP port type edge using the spanning tree port type edge [trunk] command.
- The Cisco 2248PQ, 2348TQ, and 2348UPQ FEXes support connections to the Nexus 9300 or 9500 platform switches by using supported breakout cables to connect a QSFP+ uplink on the FEX and an SFP+ link on the parent switch (4x10G links).

Note: For Cisco Nexus 9500 switches, 4x10G breakout for FEX connectivity is not supported.

New and Changed Information

This section lists the following topics:

- New Hardware Features in Cisco NX-OS Release 7.0(3)I4(8z)

Caveats

- New Software Features in Cisco NX-OS Release 7.0(3)I4(8z)

New Hardware Features in Cisco NX-OS Release 7.0(3)I4(8z)

Cisco NX-OS Release 7.0(3)I4(8z) does not include new hardware features.

New Software Features in Cisco NX-OS Release 7.0(3)I4(8z)

Cisco NX-OS Release 7.0(3)I4(8z) does not include new software features.

Caveats

This section includes the following topics:

- Resolved Caveats—Cisco NX-OS Release 7.0(3)I4(8z)
- Open Caveats—Cisco NX-OS Release 7.0(3)I4(8z)
- Known Behaviors—Cisco NX-OS Release 7.0(3)I4(8z)

Resolved Caveats—Cisco NX-OS Release 7.0(3)I4(8z)

[Table 14](#) lists the Resolved Caveats in Cisco NX-OS Release 7.0(3)I4(8z). Click the bug ID to access the Bug Search tool and see additional information about the bug.

Table 14 Resolved Caveats in Cisco NX-OS Release 7.0(3)I4(8z)

Bug ID	Description
CSCvf63751	CFS crashed due to memory leak in CFS_MEM_user_data process
CSCvg71111	EOBC/EPC heartbeat failures leading to first generation 9500 linecards
CSCvi58910	N9300 reports frequent excessive PTP corrections
CSCvj51343	Huge PTP offset /corr seen on PTP client (at access lyr) if Grandmaster switch at Core layer

Open Caveats—Cisco NX-OS Release 7.0(3)I4(8z)

Table 5 Open Caveats in Cisco NX-OS Release 7.0(3)I4(8z)

Bug ID	Description
CSCuy08187	If EPLD is not latest, terminate non-disruptive ISSU

NOTE: Although this is a generally available patch release with the fixes listed in the Resolved Caveats, it is targeted for a specific customer's deployment requirements.

Known Behaviors—Cisco NX-OS Release 7.0(3)I4(8z)

Table 6 Known Behaviors in Cisco NX-OS Release 7.0(3)I4(8z)

Bug ID	Description
CSCvc95008	On Cisco Nexus 9300-EX switches, when 802.1q EtherType has changed on an interface, the EtherType of all interfaces on the same slice will be changed to the configured value. This change is not persistent after a reload of the switch and will revert to the EtherType value of the last port on the slice.

Upgrade and Downgrade

To perform a software upgrade or downgrade, follow the instructions in the [Cisco Nexus 9000 Series NX-OS Software Upgrade and Downgrade Guide, Release 7.x](#).

For information about an In Service Software Upgrade (ISSU), see the [Cisco NX-OS ISSU Support](#) application.

Note: Upgrading from Cisco NX-OS 7.0(3)I1(2), 7.0(3)I1(3), or 7.0(3)I1(3a) requires installing a patch for Cisco Nexus 9500 platform switches only. For more information on the upgrade patch, see [Upgrade Patch Instructions](#).

Limitations

This section lists limitations related to Cisco NX-OS Release 7.0(3)I4(8z).

- PTP supports hardware and software corrections. By default, PTP does hardware corrections. This is supported only on the Cisco Nexus 9396PX switch. The `show running-config all | grep correction` command displays if PTP correction is in effect.

To disable hardware corrections, enter the `no ptp correction hardware` command. For the configuration to take effect, save the configuration and reload the switch. Enter the `show running-config all | grep correction` command to confirm.

If you are running PTP on the Cisco Nexus 9396PX, enter the `no ptp hardware correction` command.

- Ingress queuing policy is supported only at the system level (and not at the interface level) for Cisco Nexus 9508 switches with the X9732C-EX line card and Cisco Nexus 93108TC-EX and 93180YC-EX switches.
- QinVNI has the following limitations:
 - Single tag is supported on Cisco Nexus 9300 platform switches. It can be enabled by unconfiguring the `overlay-encapsulation vxlan-with-tag` command from interface nve:

```
N9564PX-2 (config) # int nve 1
N9564PX-2 (config-if-nve) # no overlay-encapsulation vxlan-with-tag
N9564PX-2# sh run int nve 1
```

```
!Command: show running-config interface nve1
!Time: Wed Jul 20 23:26:25 2016
```

```
version 7.0(3u)I4(2u)
```

Limitations

```

interface nve1
  no shutdown
  source-interface loopback0
  host-reachability protocol bgp
  member vni 900001 associate-vrf
  member vni 2000980
  suppress-arp
  mcast-group 225.4.0.1

```

- Single tag is not supported on Cisco Nexus 9500 platform switches; only double tag is supported.
 - When upgrading from Cisco NX-OS Release 7.0(3)I3(1) or 7.0(3)I4(1) to Cisco NX-OS Release 7.0(3)I4(8z) with Cisco Nexus 9300 platform switches without the `overlay-encapsulation vxlan-with-tag` command under interface `nve`, you should add `overlay-encapsulation vxlan-with-tag` under the `nve` interface in the older release before starting the ISSU upgrade. Cisco NX-OS Releases 7.0(3)I3(1) and 7.0(3)I4(1) support double tag. Cisco NX-OS Release 7.0(3)I4(8z) also supports single tag.
- Resilient hashing (port-channel load-balancing resiliency) and VXLAN configurations are not compatible with VTEPs using ALE uplink ports. Please note that resilient hashing is disabled by default.
 - Fast reload support is available for N9K-C9232C and N9K-C92304QC.
 - CoPP (Control Plane Policing) cannot be disabled. If you attempt to disable it in Cisco NX-OS Release 7.0(3)I4(8z), an error message appears. In previous releases, attempting to disable CoPP causes packets to be rate limited at 50 packets per seconds.
 - Skip CoPP policy option has been removed from the Cisco NX-OS initial setup utility because using it can impact the control plane of the network.
 - When a switch comes up with Cisco NX-OS Release 7.0(3)I4(8z) and a custom CoPP policy, a syslog warning is logged. This warning is for informational purposes only.


```

2017 Mar 10 05:06:11 tim %ACLQOS-SLOT1-4-ACLQOS_WARNING: ACLQOS Warning: COPP static acl:acl-mac-l2pt is missing, check 'show system internal access-list copp static-acls' for required static acls

```

A similar warning is logged when a custom CoPP policy is changed. This limitation applies to Cisco Nexus 9300 and 921xx platform switches and to N9K-X9732C-EX line cards.
 - `hardware profile front portmode` command is not supported on the Cisco Nexus 9000 Series switches.
 - PV (Port VLAN) configuration through an interface range is not supported.
 - Layer 3 routed traffic for missing Layer 2 adjacency information is not flooded back onto VLAN members of ingress units when the source MAC address of routed traffic is a non-VDC (Virtual Device Context) MAC address. This limitation is for hardware flood traffic and can occur when the SVI (Switched Virtual Interface) has a user-configured MAC address.
 - `neighbor-down fib-accelerate` command is supported in a BGP-only environment.
 - Uplink modules should not be removed from a Cisco Nexus 9300 platform switch that is running Cisco NX-OS Release 7.0(3)I4(8z). The ports on uplink modules should be used only for uplinks.
 - `PortLoopback` and `BootstrapLoopback` tests are not supported.
 - PFC (Priority Flow Control) and LLFC (Link-Level Flow Control) are supported for all Cisco Nexus 9300 and 9500 platform switches except for the 100G 9408PC line card and the 100G M4PC generic expansion module (GEM).

Limitations

- FEXes configured with 100/full-duplex speed, without explicitly configuring the neighboring device with 100/full-duplex speed, will not pass data packet traffic properly. This occurs with or without the link appearing to be “up.”
 - no speed-Auto negotiates and advertises all speeds (only full duplex).
 - speed 100-Does not auto negotiate; pause cannot be advertised. The peer must be set to not auto negotiate (only 100 Mbps full duplex is supported).
 - speed 1000-Auto negotiates and advertises pause (advertises only for 1000 Mbps full duplex).
- Eight QoS groups are supported only on modular platforms with the Cisco Nexus 9300 N9K-M4PC-CFP2 uplink module, and the following Cisco Nexus 9500 platform line cards:
 - N9K-X9432PQ
 - N9K-X9464PX
 - N9K-X9464TX
 - N9K-X9636PQ

- Cisco NX-OS Release 7.0(3)I4(2) supports flooding for Microsoft Network Load Balancing (NLB) unicast mode on Cisco Nexus 9500 platform switches but not on Cisco Nexus 9300 platform switches. NLB is not supported in max-host system routing mode. NLB multicast mode is not supported on Cisco Nexus 9500 or 9300 platform switches.

Note: To work around the situation of Unicast NLB limitation, Cisco can statically hard code the *address resolution protocol (ARP)* and MAC address pointing to the correct interface. Please refer to bug ID CSCuq03168 in detail in the Open Caveats section.

- TCAM resources are not shared when:
 - Applying VACL (VLAN ACL) to multiple VLANs
 - Routed ACL (Access Control List) is applied to multiple SVIs in the egress direction
- Cisco Nexus 9000 Series switch hardware does not support range checks (layer 4 operators) in egress TCAM. Because of this, ACL/QoS policies with layer 4 operations-based classification need to be expanded to multiple entries in the egress TCAM. Egress TCAM space planning should take this limitation into account.
- Applying the same QoS policy and ACL on multiple interfaces requires applying the qos-policy with the no-stats option to share the label.
- Multiple port VLAN mappings configured on an interface during a rollback operation causes the rollback feature to fail.
- The following switches support QSFP+ with the QSA (QSFP to SFP/SFP+ Adapter) (40G to 10G QSA):
 - N9K-C93120TX
 - N9K-C93128TX
 - N9K-C9332PQ
 - N9K-C9372PX

Unsupported Features

- N9K-C9372PX-E
- N9K-C9372TX
- N9K-C9396PX

Note: The Cisco Nexus 9300 support for the QSFP+ breakout has the following limitations:

- Only 10G can be supported using QSA on 40G uplink ports on Cisco Nexus 9300 platform switches in NX-OS.
- 1G with QSA is not supported.
- For the Cisco Nexus 9332PQ switch, all ports except 13-14 and 27-32 can support breakout
- All ports in the QSA speed group must operate at the same speed (see the configuration guide)

-
- The following switches support the breakout cable (40G ports to 4x10G ports):

- N9K-C9332PQ
- N9K-X9436PQ
- N9K-X9536PQ
- N9K-C93180YC-EX
- N9K-C93108TC-EX
- N9K-X9732C-EX line card

- Weighted ECMP (Equal-Cost Multi-Path) is not supported on Cisco Nexus 9000 Series switches.

- Limitations for ALE (Application Link Engine) uplink ports are listed at the following URL:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/ale_ports/b_Limitations_for_ALE_Uplink_Ports_on_Cisco_Nexus_9000_Series_Switches.html

Unsupported Features

This section lists features that are not supported for private VLANs in the current release.

- VXLAN
- DHCP
- FEX
- Cisco Nexus 3232C and 3264Q Switches
- Cisco 9200 Nexus Series, 93108TC-EX, and 93180YC-EX Switches
- Cisco Nexus 9408 Line Card and 9300 Platform Switches
- Cisco Nexus 9732C-EX Line Card

- Other Unsupported Features

VXLAN

This section lists VXLAN features that are not supported.

- ACL and QoS for VXLAN traffic in the network-to-access direction are not supported.
- Consistency checkers are not supported for VXLAN tables.
- DHCP snooping and DAI features are not supported on VXLAN VLANs.
- IGMP snooping is not supported on VXLAN VLANs.
- Native VLANs for VXLAN are not supported. All traffic on VXLAN Layer 2 trunks needs to be tagged.
- QoS buffer-boost is not applicable for VXLAN traffic.
- QoS classification is not supported for VXLAN traffic in the network-to-access direction.
- Static MAC pointing to remote VTEP (VXLAN Tunnel End Point) is not supported with BGP EVPN (Ethernet VPN).
- TX SPAN (Switched Port Analyzer) for VXLAN traffic is not supported for the access-to-network direction.
- VXLAN routing and VXLAN Bud Nodes features on the 3164Q platform are not supported.

VXLAN ACL Limitations

The following ACL related features are not supported:

- Ingress RACL that is applied on an uplink Layer 3 interface that matches on the inner or outer payload in the network-to-access direction (decapsulated path).
- Egress RACL that is applied on an uplink Layer 3 interface that matches on the inner or outer payload in the access-to-network direction (encapsulated path).
- Egress VACL for decapsulated VXLAN traffic.

Note: We recommend that you use a PACL or VACL on the access side to filter out traffic entering the overlay network.

DHCP

DHCP subnet broadcast is not supported.

FEX

- VTEP connected to FEX host interface ports is not supported.
- ASCII replay with FEX needs be done twice for HIF configurations to be applied. The second time should be done after the FEXs have come up.
- Cisco Nexus 9300 platform switches do not support FEX on uplink modules (ALE).

Unsupported Features

- FEX is supported only on the Cisco Nexus 9332PQ, 9372PX, 9372PX-E, 9396PX, and 9500 platform switches (FEX is not supported on the N9K-X9732C-EX line card, 93180YC-EX and 93108TC-EX **switches, and Cisco Nexus 9200 platform switches**).
- FEX vPC is not supported between any model of FEX and the Nexus 9300 (TOR) and 9500 platform switches (EOR) as the parent switches.
- IPSG (IP Source Guard) is not supported on FEX ports.

Cisco Nexus 3232C and 3264Q Switches

The following features are not supported for the Cisco Nexus 3232C and 3264Q switches:

- 3264Q and 3232C platforms do not support the PXE boot of the NXOS image from the loader.
- Automatic negotiation support for 25G and 50G ports on the Cisco Nexus 3232C switch
- Cisco Nexus 2000 Series Fabric Extenders (FEX)
- Cisco NX-OS to ACI conversion (The Cisco Nexus 3232C and 3264Q switches operate only in Cisco NX-OS mode.)
- DCBXP
- Designated router delay
- DHCP subnet broadcast is not supported
- Due to a Poodle vulnerability, SSLv3 is no longer supported
- FCoE NPV
- Intelligent Traffic Director (ITD)
- ISSU
- Policy-based routing (PBR)
- Port loopback tests
- Resilient hashing
- SPAN on CPU as destination
- Virtual port channel (vPC) peering between Cisco Nexus 3232C or 3264Q switches and Cisco Nexus 9300 platform switches or between Cisco Nexus 3232C or 3264Q switches and Cisco Nexus 3100 Series switches
- VXLAN

Cisco Nexus 9200 and 9300-EX Series Switches

The following features are not supported for the Cisco Nexus 9200 and 9300-EX Series switches:

- Segment routing, static MPLS, and MPLS stripping (supported for Cisco Nexus 9200 platform switches but not for Cisco Nexus 93108TC-EX and 93180YC-EX switches)
- 64-bit ALPM routing mode
- 9272PQ and 92160YC platforms do not support the PXE boot of the NXOS image from the loader.
- ACL filters to span subinterface traffic on the parent interface
- Cisco Nexus 2000 Series Fabric Extenders
- DCBXP for LLDP
- Egress port ACLs
- Egress QoS policer or marking
- FCoE NPV
- FEX
- GRE v4 payload over v6 tunnels
- Intelligent Traffic Director
- IP length-based matches
- IPinIP on 92160
- ISSU
- Layer 2 Q-in-Q (supported for Cisco Nexus 9300-EX Series switches but not for Cisco Nexus 9200 Series switches)
- Micro-burst detection
- MTU (Multi Transmission Unit) checks for packets received with an MPLS header
- OpenFlow, due to a hardware limitation
- Packet-based statistics for traffic storm control (only byte-based statistics are supported)
- Policy-based routing
- PV routing for VXLAN
- PVLANS
- Q-in-VNI and Q-in-Q for VXLAN
- Resilient hashing for ECMP
- Resilient hashing for port-channel

Unsupported Features

- Rx SPAN for multicast if the SPAN source and destination are on the same slice and no forwarding interface is on the slice
- sFlow
- Traffic storm control for copy-to-CPU packets
- Traffic storm control with unknown multicast traffic
- Tx SPAN for multicast, unknown multicast, and broadcast traffic
- VACL redirects for TAP aggregation

Cisco Nexus 9408 Line Card and 9300 Platform Switches

The following features are not supported for the Cisco Nexus N9K-X9408PC-CFP2 line card and Cisco Nexus 9300 platform switches with generic expansion modules (N9K-M4PC-CFP2):

- Breakout ports
- Port-channel (No LACP)
- vPC
- MCT (Multichassis EtherChannel Trunk)
- FEX (this applies to the 9408 and -EX switches, not all 9300 platform switches)
- PTP (Precision Time Protocol)
- PFC/LLFC
- 802.3x
- PVLAN
- Storm Control
- VXLAN access port
- SPAN destination/ERSPAN destination IP
- Shaping support on 100g port is limited
- Only support 40G flows

Cisco Nexus 9732C-EX Line Card

The following features are not supported for Cisco Nexus 9508 switches with an N9K-X9732C-EX line card:

- FEX
- TAP aggregation
- SPAN port-channel destinations
- Marker packet support for ERSPAN Type 3

Other Unsupported Features

The following lists other features not supported in the current release:

- Cisco Nexus 9300 platform switches do not support the 64-bit ALPM routing mode.
- Due to a Poodle vulnerability, SSLv3 is no longer supported.
- IPSG is not supported on the following:
 - The last six 40G physical ports on the 9372PX, 9372TX, and 9332PQ switches
 - All 40G physical ports on the 9396PX, 9396TX, and 93128TX switches

Related Documentation

The entire Cisco Nexus 9000 Series NX-OS documentation set is available at the following URL:

<http://www.cisco.com/c/en/us/support/switches/nexus-9000-series-switches/tsd-products-support-series-home.html>

The Cisco Nexus 3164Q Switch - Read Me First is available at the following URL:

http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus3164/sw/6x/readme/b_Cisco_Nexus_3164Q_Switch_Read_Me_First.html

The Cisco Nexus 31128PQ Switch - Read Me First is available at the following URL:

http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus31128/sw/readme/b_Cisco_Nexus_31128PQ_Switch_Read_Me_First.html

The Cisco Nexus 3232C/3264Q Switch - Read Me First is available at the following URL:

http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus3232and3264/sw/7x/readme/b_Cisco_Nexus_3232C_and_3264Q_Switch_Read_Me_First.html

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This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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Cisco Nexus 9000 Series NX-OS Release Notes, Release 7.0(3)I4(8z)

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