Cisco Nexus 3000 Series NX-OS Release Notes, Release 9.3(8)

This document describes the features, issues, and exceptions of Cisco NX-OS Release 9.3(8) software for use on Cisco Nexus 3000 Series switches.

Note: The documentation set for this product strives to use bias-free language. For the purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

The following table lists the changes to this document.

Table 1.   Changes to this Document

Date	Description
August 6, 2021	Cisco NX-OS Release 9.3(8) became available.

New and Enhanced Software Features

There are no new or enhanced features in Cisco NX-OS Release 9.3(8).

New Hardware Features

Cisco NX-OS Release 9.3(8) does not include any new hardware.

QDD-400G-FR4-S is supported in Cisco Nexus 3408 family switches (N3K-C3408-S) from Cisco NX-OS Release 9.3(8) onwards.

Open Issues

There are no open issues/bugs for Cisco Nexus 3000 Series in Cisco NX-OS Release 9.3(8).

Resolved Issues

Bug ID	Description
CSCvx68918	Headline: Nexus 3500 causes mcast traffic black-holing across L3 port-channel after member link comes up. Symptoms: Mcast packet loss across L3 port-channel. Workarounds: NA
CSCvx24330	Headline: Nexus 3548 sending ARP requests for static ARP entry Symptoms: Nexus 3548 is sending ARP requests even when the static ARP entry is applied in subinterfaces. Issue follows the below pattern: • The first time when you try to ping concerned IP, Nexus sends a broadcast ARP request • Once the first broadcast ARP request is sent, Nexus sends unicast ARP requests every 45 seconds when ARP timeout is set to 60 seconds. Workarounds: You can clear the ARP entry using force-delete option but the moment the physical interface flaps the issue resurfaces. Use the clear ip arp force-delete command.
CSCvz03807	Headline: Nexus 3548 XCVR FCOT information unavailable Symptoms: A Nexus 3548 Switch running 9.3(x) software version is unable to display any transceiver FCOT readings. Previous software trains (6.x and 7.x) are able to display the full FCOT readings for any L1 xcvr troubleshooting. Workarounds: None.
CSCvy73857	Headline: N3K-C36180YC-R does not create (S,G) for PTP multicast Symptoms: N3K-C36180YC-R acting as LHR running 9.(X) does not create (S,G) when PTP multicast traffic is received Workarounds: If the First Hop Router register with another RP, configure the 36180(s) as a PIM Anycast RP or MSDP peers of the RP receiving the PIM Registration.

Bug ID	Description
CSCvx56443	Headline: Nexus 3408-S pinned static route for ipv6 is missing in kernel table Symptoms: Pinned static routes for ipv6 would not be installed in kernel even though the s/w table(show ipv6 route) is displaying it correctly. Workarounds: 1. Clear ipv6 route of the prefix. 2. Unconfigure and reconfigure the static route. 3. Do not use a pinned static route and use the regular static route.
CSCvy10926	Headline: MPLS traffic fails through switch if LDP is configured on SVI due to MTU failure Symptoms: Configuring a N3K-C36180YC-R in an MPLS environment as a LSR using the CVI interfaces running LDP may lead to valid ip frames with a lize equivalent to the configured MTU to be fragmented when transiting this device.The issue is that the mpls labels imposed on the packet increases the packet's size by n x 4 bytes, where n is the number of labels that are imposed. The switch then incorrectly sees there is an MTU failure on the transmit side, and punts the packet to the CPU.If MTU is adjusted to accommodate the extra lenth added by the label stack, there is also the chance that traffic sourced from the device that needs to egress the SVI wtih the adjusted MTU may fail. Example is OSPF DBD updates may be too big for adjacent devices leading to OSPF adjacency failure Workarounds: There is no workaround
CSCvx89285	Headline: Nexus 3232C Output Errors with LLFC Rx and Cut-Through Mode Enabled Symptoms: A Nexus 3232C Series Switch with LLFC Rx ('flowcontrol receive on') and operating in cut-through switching mode ('no switching-mode store-forward') may see output errors on ports when LLFC Pause frames are received. Workarounds: In Cut-through mode, any flow control is not supported. Otherwise flow control operation is the best-effort. Disable LLFC, or change the switching mode to Store-and-Forward. Reducing the number of incoming pause frames by addressing potential congestion on the connected device may also alleviate the volume of discards.
CSCvz22691	Headline: N3500 interfaces may stop processing rx traffic after connected host NIC flaps. Symptoms: N3500 interface rx counters are not incrementing. Workarounds: Reload ascii of N3500.

Device Hardware

The following tables list the Cisco Nexus 3000 Series hardware that Cisco NX-OS Release 9.3(8) supports. For additional information about the supported hardware, see the Hardware Installation Guide for your Cisco Nexus 3000 Series device.

Table 1. Cisco Nexus 3000 and 3100 Series Switches

Product ID	Description
N3K-C3048TP-1GE	Cisco Nexus 3048 switch
N3K-C3064PQ	Cisco Nexus 3064 switch
N3K-C3064PQ-	Cisco Nexus 3064-E switch

Product ID	Description
10GE	
N3K-C3064PQ-10GX	Cisco Nexus 3064-X switch
N3K-C3064TQ-10GT	Cisco Nexus 3064-TQ switch
N3K-C31108PC-V	Cisco Nexus 31108PC-V switch
N3K-C31108TC-V	Cisco Nexus 31108TC-V switch
N3K-C31128PQ-10GE	Cisco Nexus 31128PQ, 96 x 10 Gb-SFP+, 8 x 10-Gb QSFP+, 2-RU switch
N3K-C3132C-Z	Cisco Nexus 3132C-Z switch
N3K-C3132Q-40GE	Cisco Nexus 3132Q switch
N3K-C3132Q-40GX	Cisco Nexus 3132Q-X switch
N3k-C3132Q-V	Cisco Nexus 3132Q-V switch
N3K-C3132Q-XL	Cisco Nexus C3132Q-XL switch
N3K-C3164Q-40GE	Cisco Nexus 3164Q, 64 x 40-Gb SFP+, 2-RU switch
N3K-C3172PQ-10GE	Cisco Nexus 3172PQ switch
N3K-C3172PQ-XL	Cisco Nexus C3172PQ-XL switch
N3K-C3172TQ-10GT	Cisco Nexus 3172TQ switch
N3K-C3172TQ-XL	Cisco Nexus C3172TQ-XL switch

Table 2.   Cisco Nexus 3000 and 3100 Series Fans, Fan Trays and Power Supplies

Product ID	Description
N2200-PAC-400W	Cisco Nexus 2000 or 3000 400W AC power supply, forward airflow (port side exhaust)
N2200-PAC-400W-B	Cisco Nexus 2000 or 3000 400W AC power supply, reverse airflow (port-side intake)
N2200-PDC-400W	Cisco Nexus 2000 or 3000 400W DC power supply, forward airflow (port side exhaust)
N3K-C3048-FAN	Cisco Nexus 3048 fan module with forward airflow (port-side exhaust)
N3K-C3048-FAN-B	Cisco Nexus 3048 fan module with reverse airflow (port-side intake)

Product ID	Description
N3K-C3064-X-BA-L3	Cisco Nexus 3064-X reverse airflow (port-side intake) AC power supply
N3K-C3064-X-BD-L3	Cisco Nexus 3064-X forward airflow (port-side intake) DC power supply
N3K-C3064-X-FA-L3	Cisco Nexus 3064-X forward airflow (port-side exhaust) AC power supply
N3K-C3064-X-FD-L3	Cisco Nexus 3064-X forward airflow (port-side exhaust) DC power supply
N3K-PDC-350W-B	Cisco Nexus 2000 DC power supply with reverse airflow (port-side intake)
N3K-PDC-350W-B	Cisco Nexus 2000 or 3000 350W DC power supply, reverse airflow (port side intake)
NXA-FAN-30CFM-B	Cisco Nexus 2000 or 3000 individual fan, reversed airflow (port-side intake)
NXA-FAN-30CFM-F	Cisco Nexus 2000 or 3000 individual fan, forward airflow (port-side exhaust)
NXA-PAC-500W	Cisco Nexus 3064-T 500W forward airflow (port-side exhaust) AC power supply
NXA-PAC-500W-B	Cisco Nexus 3064-T 500W reverse airflow (port-side intake) AC power supply

Table 3.   Cisco Nexus 3200 Series Switches

Product ID	Description
N3K-C3232C	Cisco Nexus 3232C switch
N3K-C3264C-E	Cisco Nexus 3264C-E switch
N3K-C3264Q	Cisco Nexus 3264Q switch

Table 4.   Cisco Nexus 3400-S Series Switches

Product ID	Description
N3K-C3408-S	Cisco Nexus 3408-S switch with 32 ports of QSFP-DD
N3K-C3408-S	Cisco Nexus 3408-S switch with 400G QSFP-DD Transceiver, 400G-FR4, Duplex LC, 2km Duplex SMF
N3K-C3432D-S	Cisco Nexus 3432D-S switch with 32 ports of QSFP-DD

Table 5.   Cisco Nexus 3500 Series Switches

Product ID	Description
N3K-C3524P-10G	Cisco Nexus 3524 switch
N3K-C3524P-10GX	Cisco Nexus 3524 switch, 24 SFP+
N3K-C3524P-XL	Cisco Nexus 3524-XL switch
N3K-C3548P-10G	Cisco Nexus 3548 switch
N3K-C3548P-10GX	Cisco Nexus 3548X switch, 48 SFP+
N3K-C3548P-XL	Cisco Nexus 3548-XL switch

Table 6.   Cisco Nexus 3500 Series Fans, Fan Trays and Power Supplies

Product ID	Description
N2200-PAC-400W	Cisco Nexus 2000 or 3000 400W AC power supply, forward airflow (port side exhaust)
N2200-PAC-400W-B	Cisco Nexus 2000 or 3000 400W AC power supply, reverse airflow (port side intake)
N2200-PDC-400W	Cisco Nexus 2000 or 3000 400W DC power supply, forward airflow (port side exhaust)
N3K-PDC-350W-B	Cisco Nexus 2000 or 3000 350W DC power supply, reverse airflow (port side intake)
NXA-FAN-30CFM-B	Cisco Nexus 2000 or 3000 individual fan, reverse airflow (port side intake)
NXA-FAN-30CFM-F	Cisco Nexus 2000 or 3000 individual fan, forward airflow (port side exhaust

Table 7.   Cisco Nexus 3600 Series Switches

Product ID	Description
N3K-C3636C-R	The Cisco Nexus 3636C-R is a 1 rack unit (RU) switch with 36 100-Gigabit QSFP28 ports, 40-Gigabit QSFP, 2 management ports, 1 console port, and 1 USB port. The switch supports both port-side exhaust and port-side intake airflow schemes. The switch has two power supplies, one for operations and the other for redundancy. Both power supplies must be either AC power supplies or DC power supplies.
N3K-C36180YC-R	The Cisco Nexus 36180YC-R is a 1 rack unit (RU) switch with 48 1/10/25-Gigabit SFP ports and 6 40-Gigabit QSFP/100-Gigabit QSFP28 ports, 1 management port, 1 console port, and 1 USB port. The switch supports both port-side exhaust and port-side intake airflow schemes. The switch has two power supplies, one for operations and the other for redundancy. Both power supplies must be either AC power supplies or DC power supplies.

MIB Support

The Cisco Management Information Base (MIB) list includes Cisco proprietary MIBs and many other Internet Engineering Task Force (IETF) standard MIBs. These standard MIBs are defined in Requests for Comments (RFCs). To find specific MIB information, you must examine the Cisco proprietary MIB structure and related IETF-standard MIBs supported by the Cisco Nexus 3000 Series switch. The MIB Support List is available at the following FTP sites:

ftp://ftp.cisco.com/pub/mibs/supportlists/nexus3000/Nexus3000MIBSupportList.html

Supported Optics

To determine which transceivers and cables are supported by Cisco Nexus 3000 Series switches, see the Transceiver Module (TMG) Compatibility Matrix.

To see the transceiver specifications and installation information, see https://www.cisco.com/c/en/us/support/interfaces-modules/transceiver-modules/products-installation-guides-list.html.

Upgrade and Downgrade

Upgrading Cisco Nexus 3048 Family Switches

To perform a software upgrade to Cisco NX-OS Release 9.3(8) from earlier releases, see Upgrade Nexus 3048 NX-OS Software document.

Upgrading Cisco Nexus 3000 and Cisco Nexus 3100 Family Switches

To perform a software upgrade to Cisco NX-OS Release 9.3(8) from earlier releases, see Upgrade Nexus 3000 and 3100 NX-OS Software document.

Upgrading Cisco Nexus 3200 and Cisco Nexus 3400-S Family Switches

To perform a software upgrade, follow the instructions in the Cisco Nexus 3400-S Series NX-OS Software Upgrade and Downgrade Guide, Release 9.3(x).

Upgrade Path to Cisco NX-OS Release 9.3(8)

For the list of platforms and releases that support a non-disruptive In-Service Software Upgrade (ISSU) to Cisco NX-OS Release 9.3(8), see the Cisco NX-OS ISSU Support Matrix.

The following disruptive upgrade paths are supported:

- For Cisco Nexus 3232C and 3264Q switches:

  Release 7.0(3)I3(1) or later -> Release 9.3(8)

- For Cisco Nexus 3264C-E switches:

  Release 9.2(1) or 9.2(2) -> Release 9.3(8)

- For Cisco Nexus 3408-S and 3432D-S switches:

  Release 9.2(2t) to 9.2(2v) -> Release 9.3(8)

  Release 9.2(2v) -> Release 9.3(8)

Upgrading Cisco Nexus 3524 and Cisco Nexus 3548 Family Switches

To perform a software upgrade to Cisco NX-OS Release 9.3(8) from earlier releases, see [Upgrade Nexus 3524 and 3548 NX-OS Software](#) document.

Upgrading Cisco Nexus 3600 Family Switches

To perform a software upgrade, follow the instructions in the [Cisco Nexus 3600 Series NX-OS Software Upgrade and Downgrade Guide, Release 9.3(x).](#)

Upgrade Path to Cisco NX-OS Release 9.3(8)

The following disruptive upgrade paths are supported:

- Release 9.2(1) or 9.2(2)-> Release 9.3(8)

- Release 7.0(3)F3(4) -> Release 9.3(8)*

- Release 7.0(3)F3(3c) -> Release 9.3(8)*

- Release 7.0(3)F3(3) -> Release 7.0(3)F3(4) -> Release 9.3(8)*

   * These upgrade paths require **write erase** and **reload**.

Note: Graceful Insertion and Removal (GIR) Maintenance mode is not supported on Cisco Nexus 3500 Platform Switches.

Related Content

Cisco Nexus 3000 Series documentation: [Cisco Nexus 3000 Series switch documentation](#)

Cisco Nexus 3000 and 9000 Series NX-API REST SDK User Guide and API Reference: [Cisco Nexus 3000 and 9000 Series NX-API REST SDK User Guide and API Reference](#)

Cisco Nexus OpenConfig YANG Reference, Release 9.3(x): [Cisco Nexus OpenConfig YANG, Release 9.3(x)](#)

Licensing information:

- Cisco NX-OS Licensing Guide
- Cisco Nexus 9000 and 3000 Series NX-OS Switch License Navigator

Documentation Feedback

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