



Cisco Nexus 3000 Series NX-OS Release Notes, Release 10.2(4)M

This document describes the features, issues, and exceptions of Cisco NX-OS Release 10.2(4)M software for use on Cisco Nexus 3500 and 3600 platform switches.

The new Cisco NX-OS Software Release and Image-naming Convention information is available here – [Cisco NX-OS Software Strategy and Lifecycle Guide](#).

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.

Date	Description
October 27, 2022	Cisco NX-OS Release 10.2(4)M became available.

New and Enhanced Software Features

There are no new software features introduced in Cisco NX-OS Release 10.2(4)M for Cisco Nexus 3000 series.

New Hardware Features

There are no new hardware features introduced in Cisco NX-OS Release 10.2(4)M for Cisco Nexus 3000 series.

Release Image

Cisco Nexus 3000 Series platforms support only 64-bit image. The 64-bit Cisco NX-OS image filename begins with "nxos64-msll" (for example, nxos64-msll.10.2.4.M.bin) and this image is supported on Cisco Nexus 3600 series fixed switches and Cisco Nexus 3500-XL switches. 32-bit image is no longer supported.

Open Issues

The following table lists the open issues for Cisco Nexus 3000 Series switches in Cisco NX-OS Release 10.2(4)M. Click the Bug ID to search the [Cisco Bug Search Tool](#) for additional information about the bug.

Bug ID	Description																																			
CSCwc89713	<p>Headline: Some static bfd session is removed after reload.</p> <p>Symptom: The symptoms are as follows:</p> <ul style="list-style-type: none">Configure under Nexus 3548: ip route static bfd Ethernet1/44 X.X.X.2 ip route static bfd Ethernet1/45 Y.Y.Y.2 interface Ethernet1/44 bfd interval 300 min_rx 300 multiplier 3 interface Ethernet1/45 bfd interval 300 min_rx 300 multiplier 3Before reload, there are two bfd sessions for static route: N3548C# show bfd neighbors <table border="1"><thead><tr><th>OurAddr</th><th>NeighAddr</th><th>LD/RD</th><th>RH/RS</th><th>Holdown(mult)</th><th>State</th><th>Int</th></tr></thead><tbody><tr><td>X.X.X.1</td><td>X.X.X.2</td><td>1090519041/1</td><td>Up</td><td>4551(3)</td><td>Up</td><td>Eth1/44</td></tr><tr><td>Y.Y.Y.1</td><td>Y.Y.Y.2</td><td>1090519042/36</td><td>Up</td><td>5115(3)</td><td>Up</td><td>Eth1/45</td></tr></tbody></table>After reload, there is only one bfd session for Eth1/44, and removed for Eth1/45: N3548C# show bfd neighbors <table border="1"><thead><tr><th>OurAddr</th><th>NeighAddr</th><th>LD/RD</th><th>RH/RS</th><th>Holdown(mult)</th><th>State</th><th>Int</th></tr></thead><tbody><tr><td>X.X.X.1</td><td>X.X.X.2</td><td>1090519041/1</td><td>Up</td><td>4530(3)</td><td>Up</td><td>Eth1/44</td></tr></tbody></table> <p>Workaround: Configure default interface configuration and re-configure.</p>	OurAddr	NeighAddr	LD/RD	RH/RS	Holdown(mult)	State	Int	X.X.X.1	X.X.X.2	1090519041/1	Up	4551(3)	Up	Eth1/44	Y.Y.Y.1	Y.Y.Y.2	1090519042/36	Up	5115(3)	Up	Eth1/45	OurAddr	NeighAddr	LD/RD	RH/RS	Holdown(mult)	State	Int	X.X.X.1	X.X.X.2	1090519041/1	Up	4530(3)	Up	Eth1/44
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Resolved Issues

The following tables lists the resolved issues for Cisco Nexus 3000 Series switches in Cisco NX-OS Release 10.2(4)M. Click the Bug ID to search the [Cisco Bug Search Tool](#) for additional information about the bug.

Bug ID	Description
CSCvx51159	<p>Headline: Nexus 3548 - Boot times increased after upgrade to Cisco NX-OS Release 9.3(6).</p> <p>Symptom: After upgrade from Cisco NX-OS Release 9.3(5) to 9.3(6), boot times have increase from 20-40 seconds.</p> <p>Workaround: None</p>
CSCvz75894	<p>Headline: Nexus 9500-R/Nexus 3600-R hardware application counters may get corrupted.</p> <p>Symptom: Nexus 9500-R/Nexus 3600-R running Cisco NX-OS 9.3(x) version of converged code may experience hardware counter corruption causing specific application counters to show incorrect information.</p> <p>Workaround: Reload clears the issue, but it can resurface.</p>
CSCwb30246	<p>Headline: Nexus 9500-R/Nexus 3600-R CoPP incorrectly matches fragmented UDP packet with UDP PTP port payload as PTP packet.</p> <p>Symptom: PTP CoPP class shows drops.</p> <p>Workaround: None</p>
CSCwb58128	<p>Headline: "use-vrf management" is missing from the " logging server" configuration line in running config.</p> <p>Symptom: " use-vrf management" is missing from the output of the show run command.</p> <p>Workaround: None</p>
CSCwb73231	<p>Headline: Nexus 9000/Nexus 3100/Nexus 3500 may be sending out of spec PTP messages with SourcePortID equal to zero.</p> <p>Symptom: Nexus PTP messages rejected by third-party PTP device.</p> <p>Workaround: Do not use port 1 for PTP.</p>
CSCwc00709	<p>Headline: PBR over GRE feature broken on Nexus 3000 platform.</p> <p>Symptom: Per the Cisco Nexus 3000 NX-OS Interfaces Configuration Guide for 9.3(x), Nexus 3000 supports "Configuring a Tunnel Interface Based on Policy Based Routing". However, when the PBR sets next-hop ip with the tunnel local ip, the PBR IPv4 nexthop table does not install the tunnel IP.</p> <p>Workaround: None</p>

Bug ID	Description
CSCwc71075	<p>Headline: OSPFv3 neighborship is brought down when issuing "no feature nv overlay" and when authentication is used.</p> <p>Symptom: When you enable feature nv overlay on Nexus 3000 and then disable it by issuing "no feature nv overlay," all existing OSPFv3 neighborships are going to DOWN state.</p> <p>Workaround: Remove OSPFv3 authentication under interface.</p>
CSCwc82191	<p>Headline: Nexus 3500 fails to update L2 ltl-index for some mcast groups due to exhausted ltl-index pool.</p> <p>Symptom: After igmp report is received by Nexus 3000, mtc does not program the OIF into l2-ntl.</p> <p>Workaround: None; reload the switch to recover.</p>

Device Hardware

The following tables list the Cisco Nexus 3500 and Cisco Nexus 3600 Series hardware that Cisco NX-OS Release 10.2(4)M supports. For additional information about the supported hardware, see the Hardware Installation Guide for your Cisco Nexus 3500 and Cisco Nexus 3600 Series devices.

Cisco Nexus 3500 Switches

Product ID	Description
N3K-C3548P-XL	Cisco Nexus 3548-XL switch

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)

Cisco Nexus 3600 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

Product ID	Description
	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.

Upgrade and Downgrade

To perform a software upgrade or downgrade, follow the instructions in *the Cisco Nexus 3500 Series NX-OS Software Upgrade and Downgrade Guide and Cisco Nexus 3600 Series NX-OS Software Upgrade and Downgrade Guide*.

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

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>.

Related Content

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

Cisco NX-OS Software Release and Image-naming Convention: [Cisco NX-OS Software Strategy and Lifecycle Guide](#)

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](#).

Licensing Information

- [Cisco NX-OS Licensing Guide](#)
- [Cisco Nexus 9000 and 3000 Series NX-OS Switch License Navigator](#)
- [Cisco Nexus Smart Licensing Using Policy User Guide](#)

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