Cisco Nexus 3000 Series NX-OS Release Notes, Release 9.3(11)

Introduction

This document describes the features, issues, and exceptions of Cisco NX-OS Release 9.3(11) 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.

Date	Description
January 30, 2023	Cisco NX-OS Release 9.3(11) became available.

New and Enhanced Software Features

There are no new or enhanced software and hardware features introduced in Cisco NX-OS Release 9.3(11).

Open Issues

Click the bug ID to access the Bug Search tool and see additional information about the bug.

Bug ID	Description
CSCwd68210	Headline: Cisco Nexus 9000 and Cisco Nexus 3000 Switch 100Gig Interface does not come up after upgrade of Cisco Nexus 9000. Symptoms: Interface does not come up after the upgrade of Cisco Nexus 9500 from Cisco NX-OS Release 9.3(4) to 9.3(8). The SFP used is QSFP-100G-CWDM4-S. Link between Cisco Nexus 9000 is N9K-X9736C-FX and leaf is N3K-C36180YC-R. Workarounds: None.

Resolved Issues

Click the bug ID to access the Bug Search tool and see additional information about the bug.

Bug ID	Description
CSCvw58434	Headline: NAT core is seen when running NAT sanity. Symptoms: NAT process crash and system reload is observed when user configures or unconfigures the NAT inside or outside on Layer 3 interface. Workarounds: None.
CSCwc71075	Headline: When authentication is used, OSPFv3 neighborship is brought down while issuing no feature NV overlay. Symptoms: Enable feature NV overlay on the Nexus switch and then disable it using no feature NV overlay. All existing OSPFv3 neighborships go to DOWN state. Workarounds: Remove OSPFv3 authentication under interface.

Bug ID	Description
CSCwc96131	Headline: Cisco Nexus 3232C-Traffic incorrectly forwarded to CPU when IPv6 RACL index overlaps with sup-redirect ACL. Symptoms: IPv6 data traffic incorrectly forwarded to CPU. Workarounds: None.
CSCwd49931	Headline: Cisco Nexus 3000/Cisco Nexus 9000 BCM - ACL TCAM Mismatch seen in hardware. Symptoms: Mismatch on multiple entries in ACL TCAM is seen on Cisco Nexus platforms such as 3172PX. Workarounds: None. The mismatch does not have any impact.
CSCwd49994	Headline: Static NAT stopped working after upgrade to 9.3(8). Symptoms: After upgrading (disruptive ISSU) from Cisco NX-OS Release 9.3(4) to 9.3(8), static NAT stopped working. Removing the NAT configuration and disabling the NAT feature and reconfigure it again does not help, not even reload/reload ASCII. Workarounds: SMU patch will be available for the NX-OS 9.3(8) as workaround to fix the issue.
CSCwd56526	Headline: Portloopback syslog message prints wrong test name. Symptoms: Cisco Nexus 3000 running Cisco NX-OS Release 9.3(9) code may report L2ACL diag failure and then RewriteEngineLoopback diag failure syslogs and experience kernel panic. The L2ACL diag is not applicable to Cisco Nexus 3000 and test name is printed wrongly. The actual diag failure is for REWRITE_ENGINE_LOOPBACK_TEST. Workarounds: Monitor the device on first occurrence of kernel panic following the diag failure. If the kernel panic is repeated, replace the switch as this can be due to HW failure.
CSCwd07045	Headline: Cisco Nexus 3000 can only configure up to 3 syslog servers. Symptoms: A Cisco Nexus 3000 series switch running Cisco Nexus Release 7.x or 9.x software shows the Can't configure more than 8 IP Servers message when trying to configure more than 3 logging servers. Workarounds: None.
CSCwd60105	Headline: Cisco Nexus 3408-S - When Layer 3 port-channel flaps due to LACP, it comes back in L2_L3 mode instead of L3_ONLY mode. Symptoms: When an L3 port-channel on 3408-S flaps due to LACP, it might come back in L2_L3 mode instead of L3_ONLY mode. This will result in routing protocols such as BGP remaining in the down state. Workarounds: Bouncing the affected port-channel brings the port back to L3_ONLY mode and allows the L3 protocols to come back up.
CSCwc89713	Headline: Few static BFD sessions are removed after reloading. Symptoms: Configure Cisco Nexus 3548 with static BFD session and reload. If, before reload, there were two BFD sessions for static route, after reload, there could be only one BFD session. Workarounds: Default interface configuration and re-configure.
CSCwd13945	Headline: The displays of the show hardware profile buffer monitor detail command with the last 10 -or- last 15 keyword shows repeated output. Symptoms: For example, a Cisco Nexus 3500 switch is running Cisco NX-OS Release 9.3(9). Running the following command does not show the full interface output with "last 10" -or- "last 15" keyword. The last 1 keyword functions as expected. Workarounds: Use the show hardware profile buffer monitor detail last 1 command.

Bug ID	Description
CSCwd38617	Headline: Cisco N3K-C3548 punts DHCP/BOOTP packets to CPU for non-relay enabled VLANs. Symptoms: Observation of DHCP packets in ethanalyzer for a VLAN that either has no SVI or is not configured for DHCP relay. Packets are counted as hits in the show system internal access-list input entries detail command output for DHCP relay entries in another VLAN. Workarounds: None.
CSCwd15533	Headline: Removal of " flowcontrol receive on" stops pause frames from being counted on Cisco Nexus 3548 switch. Symptoms: A pause frame is received where " flowcontrol receive on" was previously configured. The pause frame counter increment is not seen on the switch, however, the input error counter continues to increment. Workarounds: Reload switch after removing " flowcontrol receive on" to acknowledge Rx pause frames per the interface counters.
CSCwd90070	Headline: Cisco Nexus 3548 in WARP mode may fail to correctly install ECMP unicast route. Symptoms: Cisco Nexus 3500 in WARP fails to forward unicast traffic. However, ECMP values for the destination route are installed in an internal table. Workarounds: Install only a single path to the impacted destination or non-ECMP paths to the impacted destination. Then, clear the route.

Device Hardware

The following tables list the Cisco Nexus 3000 Series hardware that Cisco NX-OS Release 9.3(11) 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-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-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

Product ID	Description
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)
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)

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-10GX	Cisco Nexus 3524 switch, 24 SFP+
N3K-C3524P-XL	Cisco Nexus 3524-XL switch

Product ID	Description
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(11) 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(11) 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(11)

For the list of platforms and releases that support a non-disruptive In-Service Software Upgrade (ISSU) to Cisco NX-OS Release 9.3(11), 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)I5(1) or later -> Release 9.3(11)

- For Cisco Nexus 3264C-E switches:

  Release 9.2(1) or 9.2(2) -> Release 9.3(11)

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

  Release 9.2(2t) to 9.2(2v) -> Release 9.3(11)

  Release 9.2(2v) -> Release 9.3(11)

Upgrading Cisco Nexus 3524 and Cisco Nexus 3548 Family Switches

To perform a software upgrade to Cisco NX-OS Release 9.3(11) 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(11)

The following disruptive upgrade paths are supported:

- Release 9.2(1) or 9.2(2)-> Release 9.3(11)

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

To provide technical feedback on this document, or to report an error or omission, please send your comments to nexus3k-docfeedback@cisco.com. We appreciate your feedback.

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