Release Notes for Cisco Nexus 3000 Series, Release 10.6(1)F

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Cisco Nexus 3000 Series switches, Release 10.6(1)F

This document describes the features, issues, and limitations of Cisco NX-OS software Release 10.6(1)F for use on the Cisco Nexus 3000 Series switches.

Introduction

This document describes the features, issues, and limitations of Cisco NX-OS software Release 10.6(1)F for use on the Cisco Nexus 9000 Series switches.

Date	Description
August 13, 2025	Release 10.6(1)F became available.

New software features

This section provides a brief description of the new software features introduced in this release.

Table 1. New software features for Cisco Nexus 3000 Series switches, Release 10.6(1)F

Product impact	Feature	Description
Feature Set	Support RPKI community when connected via eBGP	Beginning with Cisco NX-OS Release 10.6(1)F, admin can utilize BGP Prefix Origin Validation State Extended Community to signal and accept origin-as validation state to and from external BGP peers. For more information, see Cisco Nexus 3000 Series NX-OS Security Configuration Guide, Release 10.6(x)
	PIM Graceful-SPT Feature to Be Default	Beginning with Cisco NX-OS Release 10.6(1)F, the ip pim spt-switch-graceful command is enabled by default. This feature minimizes packet loss by allowing a graceful switchover from the shared tree to the shortest path tree (SPT) where the shared tree is used until the shortest path tree (SPT) is fully established and verified by receiving the first data packet. For more information, see Cisco Nexus 3548 Switch NX-OS Multicast Routing Configuration Guide, Release 10.6(x)
	Smart License HTTP Connect Message - User Agent String	From NX-OS Release 10.6(1)F, for packet captures, the HTTP User-Agent string is enabled in HTTP Connect messages for Smart Licensing transport. The User-Agent string is set to cisco-nxos, allowing proxies to identify Nexus devices and facilitate connectivity. In earlier releases, nexus switches had to be identified manually. For more information, see Cisco Nexus 9000 and 3000 Series NX-OS Smart Licensing Using Policy User Guide.

New hardware features

Cisco NX-OS Release 10.6(1)F does not include any new hardware features for the Cisco Nexus 3000 Series.

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Resolved issues

This table lists the resolved issues in this specific software release.

Note: This software release may contain bug fixes first introduced in other releases. To see additional information, click the bug ID to access the Cisco Bug Search Tool.

Table 2. Resolved issues for Cisco Nexus 3000 Series switches, Release 10.6(1)F

Bug ID	Description
CSCwq26517	N9K DNS: source-interface not working for ip name-server command in 10.5(3)
CSCwq00225	'ipv6 link-local' configuration missing after reload
CSCwp95485	SYN-TIMEOUT and FINRST-TIMEOUT timers activate when ASCII reload happens, even with no tcp-nat tcam carved
CSCwq28687	Observing telemetry crash post ISSU 10.4(6) - 10.5(3)F
CSCwp00709	High CPU due to vsh.bin with rapid logging of sev 0,1,2 syslogs
CSCwo63323	MTM process crash when large number of MAC addresses in the network
CSCwo67684	Secure Erase feature for 3548XL on 10.4 not working
CSCwp34378	N3500-XL reports frequently excessive latency in range of multiple seconds.
CSCwp19413	N9k Telemetry stops streaming under certain conditions
CSCwp35926	NXOS - OSPFv3 adj to FTD fails with IPSec ESP Auth
CSCwo90376	[Telemetry] Large number of AAAA DNS queries are sent by the nexus switch to the DNS server to resolve telegraf hostname, even though IPv6 is not configured
CSCwq10551	N3500 PTP T3 time stamp may get stuck
CSCwp90936	N9K/N3K unexpected reload due to sysmgr shutdown

Open issues

There are no open issues for Cisco Nexus 3000 Series in Cisco NX-OS Release 10.5(3)F.

Note: This software release may contain open bugs first identified in other releases. To see additional information, click the bug ID to access the Cisco Bug Search Tool.

Known issues

There are no open issues for Cisco Nexus 3000 Series in Cisco NX-OS Release 10.5(3)F.

Bug ID	Description
CSCwp34378	N3500-XL reports frequently excessive latency in range of multiple seconds.
CSCwq10551	N3500 PTP T3 time stamp may get stuck

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Supported hardware

This section lists the hardware support information:

Table 3. Cisco Nexus 3500 Switches

Product ID	Description
N3K-C3524P-XL	Cisco Nexus 3524-XL switch
N3K-C3548P-XL	Cisco Nexus 3548-XL switch

Table 4. 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 5. 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 power supplies, one for operations and the other for redundancy. Both power supplies must be either AC power supplies or DC power supplies.

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Product ID	Description
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 40Gigabit 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. From Cisco NX-OS Release 10.3(3)F, the following AC ports are supported on Cisco Nexus 36180YC-R (N3K-C36180YC-R): • AC port-side exhaust (NXA-PAC-750W-PE) • AC port-side intake (NXA-PAC-750W-PI) The following table provides information about spares support: • The Typical/Minimum port-side intake and fan speed percentage is 50% and the maximum port-side intake and fan speed percentage is 100%. • The Typical/Minimum port-side exhaust and fan speed percentage is 70% and the maximum port-side exhaust and fan speed percentage is 100%. For information about N3K-C36180YC-R, see Cisco Nexus 3600 Hardware Installation Guide.

Supported software packages

This section provides information about the release packages associated with <product>

Table 6. Software packages for Cisco Nexus 3000 Series switches, Release 10.6(1)F

Software package	Description	Release
nxos64-msll.<version>.bin	64-bit NX-OS image for Cisco Nexus 3000 Series platforms, supported on 3600 series fixed switches and 3500-XL series switches	10.6(1)F

Optics

For information about transceivers and cables supported on a switch, see the Transceiver Module (TMG) Compatibility Matrix. For the transceiver specifications and installation information, see the Install and Upgrade Guides.

Related resources

Document Title	Description
Cisco Nexus 3000 Series switch documentation	Cisco Nexus 3000 Series documentation
Cisco NX-OS Software Strategy and Lifecycle Guide	Cisco NX-OS Software Release and Image-naming Convention
Cisco Nexus 3000 and 9000 Series NXAPI REST SDK User Guide and API Reference	Cisco Nexus 3000 and 9000 Series NX-API REST SDK User Guide and API Reference

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Document Title	Description
Cisco NX-OS Licensing Guide Cisco Nexus 3000 and 3000 Series NX-OS Switch License Navigator Cisco Nexus Smart Licensing Using Policy User Guide	Licensing Information

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