Cisco Nexus 9000 Series NX-OS Release Notes

Release 10.6(3)F

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Cisco Nexus 9000 Series NX-OS Release Notes, Release 10.6(3)F

This document describes the features, issues, and limitations of Cisco NX-OS software Release 10.6(3)F for use on the Cisco Nexus 9000 Series switches.

Introduction

This document describes the features, issues, and limitations of Cisco NX-OS software Release 10.6(3)F for use on the Cisco Nexus 9000 Series switches.

Date	Description
May 11, 2026	Update the “Unsupported Hardware” section.
April 27, 2026	Release 10.6(3)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 9000 Series switches, Release 10.6(3)F

Feature Impact	Feature Name	Description
Ease of Use	VXLAN GPO: Intra Group Isolation and segmenting within the same host	Beginning with Cisco NX-OS Release 10.6(3)F, you can restrict communication among the endpoints within the same ESG (also known as SG) using intra-ESG isolation feature. This feature minimizes the risk of unauthorized access within ESG and enhances security posture. For more information, refer to Cisco Nexus 9000 Series NX-OS VXLAN Configuration Guide, Release 10.6(x).
	Arp/ND qualification due to enhancement brought in as part of intra-host isolation feature	Beginning with Cisco NX-OS Release 10.6(3)F, support is added for the enhanced proxy ARP or neighbor discovery to allow packets to switch across the ports after configuring Layer 2 isolation. For more information, refer to Cisco Nexus 9000 Series NX-OS VXLAN Configuration Guide, Release 10.6(x).
	VXLAN GPO: SGACL support for ESI multi-homing	Beginning with Cisco NX-OS Release 10.6(3)F, ESI multi homing is support in SGACL. Intra-ESG isolation and ESI multi-homing support in SGACL are mutually exclusive. For more information, see Cisco Nexus 9000 Series NX-OS VXLAN Configuration Guide, Release 10.6(x).
	Regenerate virtual UDI for cloned Nexus 9300v and 9500v VMs	In previous releases, cloned virtual machines (VM) retained the same virtual UDI (serial number) as the source VM, making it difficult to distinguish between instances. The enhancement provided in NX-OS Release 10.6(3)F introduces an option to regenerate the virtual UDI during cloning, ensuring each cloned VM receives a unique serial number for accurate identification and network traffic management. For more information, refer to Cisco Nexus 9000v (9300v/9500v) Guide, Release 10.6(x).

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Feature Impact	Feature Name	Description
	FIPS MACSec Certification	Beginning with 10.6(3), the bootup diagnostic process is enhanced by introducing a mandatory security check for these devices: • C9364D-GX2A • C9348D-GX2A • C9332D-GX2B For more information, refer to Cisco Nexus 9000 Series NX-OS System Management Configuration Guide, Release 10.6(x).
	OLS SNMP support	The Optical Line System (OLS) SNMP support feature improves the existing Optical Transport Section (OTS) Management Information Base (MIB) and adds support for Optical Line System (OLS) pluggable modules. The QDD OLS pluggable integrates dual OTS controllers representing its COM and LINE ports, managing optical parameters and amplifier gains through SNMP MIBs to provide comprehensive monitoring, control, and enhanced network operation capabilities. For more information, refer to Cisco Nexus 9000 Series Interfaces Configuration Guide, Release 10.6(x).
Feature Set	Application Select Code for transceivers following CMIS	This feature enables the host device to select the operating mode of a QDD module. It consists of codes advertised by transceivers that follow the CMIS standard. For more information, refer to Cisco Nexus 9000 Series Interfaces Configuration Guide, Release 10.6(x).
	VXLAN EVPN Resilient ECMP	Beginning with Cisco NX-OS Release 10.6(3)F, resilient ECMP hashing at the VRF level is supported for VXLAN EVPN overlays on Cisco Nexus FX2, FX3, GX, GX2, and HX platform switches. For more information, see Cisco Nexus 9000 Series NX-OS VXLAN Configuration Guide, Release 10.6(x).
	Exclude control packets from packet truncation	Beginning with NX-OS Release 10.6(3)F, the control packets from truncation can be excluded either at the system level or at the interface level. For more information, refer to Cisco Nexus 9000 Series System Management Configuration Guide, Release 10.6(x).
	MPLS Encapsulation Statistics for SR-MPLS	Beginning with Cisco NX-OS Release 10.6(3)F, MPLS encapsulation statistics for SR-MPLS are supported on these switches: • N9K-C9808 • N9K-C9804 • N9336C-SE1U • N9396Y12C-SE1 • N9348Y12C-SE1, and, • N9324C-SE1U For more information, refer to Cisco Nexus 9000 Series NX-OS Label Switching Configuration Guide, Release 10.6(x).
	Licensing (SLP) Support on N9348Y12C-SE1 switches	Beginning with NX-OS Release 10.6(3)F, Smart Licensing using Policy is supported on N9348Y12C-SE1 switch. For more information, refer to Cisco Nexus 9000 and 3000 Series NX-OS Smart Licensing Using Policy User Guide.

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Feature Impact	Feature Name	Description
	ND Suppression	Beginning with Cisco NX-OS Release 10.6(3)F, you can enable ND suppression feature on these switches: • Cisco Nexus 9336C-SE1, N9396Y12C-SE1, and N9396T12C-SE1 switches. • Cisco N9324C-SE1U, N9348Y2C6D-SE1U Smart switches. For more information, see Cisco Nexus 9000 Series NX-OS VXLAN Configuration Guide, Release 10.6(x).
	Interface QoS support for QoS classification policies	Beginning with Cisco NX-OS Release 10.6(3)F, interface QoS support for QoS classification policies is provided on Cisco Nexus 9300-SE1 Series switches and N9300 Smart switches. For more information see, Cisco Nexus 9000 Series NX-OS Quality of Service Configuration Guide, Release 10.6(x).
	Support Symmetric Hashing	Beginning with Cisco NX-OS Release 10.6(3)F, support for symmetric hashing is available on Nexus 9396T12C-SE1 switches. For more information, see Cisco Nexus 9000 Series NX-OS Interfaces Configuration Guide, Release 10.6(x).
	Support IPv6 Multicast/MLD Snooping	Beginning with Cisco NX-OS Release 10.6(3)F, IPv6 Multicast routing and MLD snooping is supported on these Cisco Nexus platforms: • Nexus 9396T12C-SE1 switches • Nexus N9336C-SE1 Switch • Nexus N9396Y12C-SE1 Switch • Nexus N9348Y12C-SE1 • Nexus N9324C-SE1U • Nexus N9348Y2C6D-SE1U For more information, see Cisco Nexus 9000 Series NX-OS Multicast Routing Configuration Guide, Release 10.6(x).
	Support SVI Autostate on S1 platforms	Beginning with Cisco NX-OS Release 10.6(3)F, SVI Autostate feature is supported on Cisco Nexus 9396T12C-SE1 platform switches. For more information, see Cisco Nexus 9000 Series NX-OS Layer 2 Switching Configuration Guide, Release 10.6(x).
	Static mac and Learn Disable support	Beginning with Cisco NX-OS Release 10.6(3)F, Static mac and Learn Disable Cisco Nexus 9396T12C-SE1 platform switches. For more information, see Cisco Nexus 9000 Series NX-OS Layer 2 Switching Configuration Guide, Release 10.6(x).
	QinQ Multi Tag support	Beginning with Cisco NX-OS Release 10.6(3)F, QinQ Multi Tag on all Silicon One switches. For more information, see Cisco Nexus 9000 Series NX-OS Layer 2 Switching Configuration Guide, Release 10.6(x).
	UDLD support on Cisco Nexus 9300-SE1 switches	Beginning with Cisco NX-OS Release 10.6(3)F, UDLD is supported on Cisco Nexus 9300-SE1 switches. For more information, see Cisco Nexus 9000 Series NX-OS Layer 2 Switching Configuration Guide, Release 10.6(x).

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Feature Impact	Feature Name	Description
	Min-disruptive ISSU support on Nexus 9364E-SG2 switch	Beginning with NX-OS Release 10.6(3)F, minimally disruptive ISSU or min-disruptive (MD) ISSU is introduced on Nexus 9364E-SG2 Silicon One based TORs. During MD ISSU, any minimal packet disruption is displayed to the user. For more information, refer to Cisco Nexus 9000 Series Software Upgrade and Downgrade Guide, Release 10.6(x).
	TCP Keepalive for Syslog Logging	Beginning with Cisco NX-OS Release 10.6(3)F, configurable TCP keepalive idle timeout is supported for syslog TCP connections to improve reliability and prevent session drops due to idle timeouts. For more information, refer to Cisco Nexus 9000 Series NX-OS System Management Configuration Guide, Release 10.6(x).
	IPSLA/ UDP Jitter for Unnumbered Interfaces	Beginning with Cisco NX-OS Release 10.6(3)F, IP addresses for unnumbered interfaces are allocated dynamically. You can configure the interface as source for UDP Jitter and track the destination. For more information, refer to Cisco Nexus 9000 Series Interfaces Configuration Guide, Release 10.6(x).
	New HW templates for N9K-C9364C-H1	Beginning with Cisco NX-OS Release 10.6(3)F, you can use template **l3-host-heavy** on Cisco Nexus C9364C-H platform switches. For more information, refer to Cisco Nexus 9000 Series NX-OS Unicast Routing Configuration Guide, Release 10.6(x).
	vPC BGW (with IPv6 underlay)	Prior to Cisco NX-OS Release 10.6(3)F, vPC BGW supported only IPv4 underlay. Starting with Cisco NX-OS Release 10.6(3)F, vPC BGW also supports IPv6 underlay. For more information, refer to Cisco Nexus 9000 Series NX-OS VXLAN Guide, Release 10.6(x).
	IPv6 ND cache limit at the SVI	Beginning with Cisco NX-OS Release 10.6(3)F, you can configure the neighbor discovery cache limit at the SVI level. This feature improves resource optimization, security, and network performance. For more information, see Cisco Nexus 9000 Series NX-OS Unicast Routing Configuration Guide, Release 10.6(x).
	PIM Bidir V6 support	Beginning with Cisco NX-OS Release 10.6(3)F, support is added for PIMv6 Bidir on Cisco Nexus 9300-FX/FX2/FX3/GX/GX2/HX switches and Cisco Nexus 9700-EX/FX/GX/FX3 line cards. For more information, refer to Cisco Nexus 9000 Series NX-OS Multicast Routing Configuration Guide, Release 10.6(x).
	DLB on BGP Unnumbered Link Local IPv6 with WCMP	Beginning with Cisco NX-OS Release 10.6(3)F, you can configure DLB on BGP Unnumbered Link Local IPv6 with WCMP. For more information, see Cisco Nexus 9000 Series NX-OS Unicast Routing Configuration Guide, Release 10.6(x).
	Media eXchange Layer (MXL) Use for AI/ML applications in media industry	Beginning with Cisco NX-OS Release 10.6(3)F, Media Exchange Layer(MXL)traffic can co-exist along with Multicast NBM PIM Active traffic in two different VRFs. For more information, refer to Cisco Nexus 9000 Series NX-OS IP Fabric for Media Solution Guide, Release 10.6(x).

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Feature Impact	Feature Name	Description
	High-Speed PID Provisioning	The feature introduces an optimized provisioning path for specific hardware identified as " high-speed PIDs" . By prioritizing the Management (MGMT) interface for DHCP discovery, the device can potentially speed up the PowerOn Auto Provisioning (POAP) process. For more information, refer to Cisco Nexus 9000 Series NX-OS Fundamentals Configuration Guide, Release 10.6(x).
	SMET route for multi-site with TRM	Beginning with Cisco NX-OS Release 10.6(3)F, SMET route for multi-site with TRM is supported on all Nexus 9000 switches. For more information, see Cisco Nexus 9000 Series NX-OS VXLAN Routing Configuration Guide, Release 10.6(x).
	Undefined Policy " Permit by Default"	The new feature allows administrators to change this default action to " permit," ensuring traffic continuity while configurations are being applied or updated. For more information, refer to Cisco Nexus 9000 Series NX-OS Unicast Routing Configuration Guide, Release 10.6(x).
	MultiHop BFD Support for VXLAN with IPv6 Underlay	Beginning with Cisco NX-OS Release 10.6(3)F, MultiHop BFD is supported for VXLAN overlays operating over an IPv6 underlay. For more information, refer to Cisco Nexus 9000 Series NX-OS VXLAN Configuration Guide, Release 10.6(x).
	Proportional Multipath for VNF Support for VXLAN Overlays with IPv6 Underlay	Beginning with Cisco NX-OS Release 10.6(3)F, Proportional Multipath for VNF is supported for VXLAN overlays operating over an IPv6 underlay. For more information, refer to Cisco Nexus 9000 Series NX-OS VXLAN Configuration Guide, Release 10.6(x).
	ZR firmware upgrade support on N9K-C93600CD-GX and N9K-C9316D-GX TORs	Beginning with NX-OS Release 10.6(3)F, ZR, ZRP and Bright ZR firmware upgrade is supported on N9K-C93600CD-GX and N9K-C9316D-GX TORs. For more information, refer to Cisco Nexus 9000 Series Interfaces Configuration Guide, Release 10.6(x).
	Syslog Console Logging Performance Improvement	Beginning with Cisco NX-OS Release 10.6(3)F, syslog console logging is processed asynchronously to prevent slow or unresponsive console output from blocking syslog processing. Console-specific drop and error statistics are provided to monitor logging drop counts. For more information, refer to Cisco Nexus 9000 Series NX-OS System Management Configuration Guide, Release 10.6(x).
	Multisite Support for Private VLANs over VXLAN	Beginning with Cisco NX-OS Release 10.6(3)F, multisite support for Private VLANs over VXLAN is introduced on Cisco Nexus platform switches. For more information, refer to Cisco Nexus 9000 Series NX-OS VXLAN Configuration Guide, Release 10.6(x).
	ONS-QDD-OLS= support on H2R	Beginning with 10.6(3)F, N9K-C9332D-H2R is supported for Optical Line System. For more information, refer to Cisco Nexus 9000 Series NX-OS Interfaces Configuration Guide, Release 10.6(x).

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Feature Impact	Feature Name	Description
	PFM-SD Multisite Support	Beginning with Cisco NX-OS Release 10.6(3)F, PIM Flooding Mechanism - Source Discovery (PFM-SD) Multisite support is introduced. This feature enables the integration of the PIM Flooding Mechanism (PFM) with the Multicast source Discovery Protocol (MSDP). For more information, refer to: • Cisco Nexus 9000 Series NX-OS Multicast Routing Configuration Guide, Release 10.6(x), • Cisco Nexus 9000 Series NX-OS IP Fabric for Media Solution Guide, Release 10.6(x), and, • Cisco Nexus 3000 and 9000 Series NX-API REST SDK User Guide and API Reference, Release 10.6(x).
	Queuing and scheduling support on 9800 EoR line cards	Beginning with Cisco NX-OS Release 10.6(3)F, added support for Queuing and scheduling on Cisco Nexus 9800 Series switches with N9K-X9836DM-A and N9K-X98900CD-A line cards. For more information, refer to Cisco Nexus 9000 Series NX-OS Quality of Service Configuration Guide, Release 10.6(x).
	Priority flow control support on 9800 EoR line cards	Beginning with Cisco NX-OS Release 10.6(3)F, added support for Priority flow control on Cisco Nexus 9800 Series switches with N9K-X9836DM-A and N9K-X98900CD-A line cards. For more information, refer to Cisco Nexus 9000 Series NX-OS Quality of Service Configuration Guide, Release 10.6(x).
	PTP support on N9300 Smart switches	Beginning with Cisco NX-OS Release 10.6(3)F, PTP is supported on Cisco N9324C-SE1U and N9348Y2C6D-SE1U Smart switches. For more information, refer to: • Cisco Nexus 9000 Series NX-OS System Management Configuration Guide, Release 10.6(x), and, • Cisco Nexus 9000 Series NX-OS Verified Scalability Guide, Release 10.6(3)F.
	Layer 2 support on Nexus 9800 Series EoR line cards	Beginning with Cisco NX-OS Release 10.6(3)F, added support for Layer 2 features on Cisco Nexus 9800 Series switches with N9K-X9836DM-A and N9K-X98900CD-A line cards. For more information, refer to: • Cisco Nexus 9000 Series NX-OS Interfaces Configuration Guide, Release 10.6(x), • Cisco Nexus 9000 Series NX-OS Layer 2 Switching Configuration Guide, Release 10.6(x), and, • Cisco Nexus 9000 Series NX-OS Verified Scalability Guide, Release 10.6(3)F.
	PV mapping on Cisco Nexus 9300-SE1 platform switches	Beginning with Cisco NX-OS Release 10.6(3)F, port VLAN mapping is supported on Cisco Nexus 9000v switches. For more information, see Cisco Nexus 9000 Series NX-OS VXLAN Configuration Guide, Release 10.6(x).
Programmability	Configuration Candidate Session	Beginning with Release 10.6(3)F this configuration management feature allows you to stage, review, and validate configuration changes before committing them to the running configuration on Cisco Nexus 9000 Series Switches. For more information, refer to Cisco Nexus 9000 Series NX-OS System Management Configuration Guide, Release 10.6(x).

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Feature Impact	Feature Name	Description
	Openconfig Model Up-Rev	Beginning with Cisco NX-OS Release 10.6(3)F, support is added to upgrade OpenConfig models to version v5.3.0. For more information, see Cisco Nexus 9000 Series NX-OS Programmability Guide, Release 10.6(x).
	Support for pushing OpenConfig + Vendor CLI config via gNMI.Set (BETA)	Beginning with Cisco NX-OS Release 10.6(3)F, gNMI Set RPC supports message type union-replace that allows a single gNMI Set RPC to carry both the CLI text configuration as well as the Openconfig YANG JSON payloads. This feature is introduced to replace the switch configuration with the union of the CLI and Openconfig. For more information, refer to Cisco Nexus 9000 Series NX-OS Programmability Guide, Release 10.6(x).
	Splunk HTTP Event Collector (HEC) Support	Beginning with 10.6(3)F, native integration between Cisco NX-OS and Splunk is enabled by allowing telemetry data to be streamed using the HTTP Event Collector (HEC) protocol. For more information, refer to Cisco Nexus 9000 Series NX-OS Programmability Guide, Release 10.6(x).
Security	Support for 802.1X authentication mode open on MDA ports	Beginning with Cisco NX-OS Release 10.6(3)F, added support for open authentication mode to provide immediate network access for quick connectivity but still maintain security by running authentication in parallel. For more information, refer to Cisco Nexus 9000 Series NX-OS Security Configuration Guide, Release 10.6(x).
	Support command for 802.1X authentication violation restrict	Beginning with Cisco NX-OS Release 10.6(3)F, added a new command to handle security violations by creating DROP entries for violating MAC addresses instead of shutting down the port. For more information, refer to Cisco Nexus 9000 Series NX-OS Security Configuration Guide, Release 10.6(x).
	Support Change of Authorization (COA) for Voice and Data traffic	Beginning with Cisco NX-OS Release 10.6(3)F, Added support for COA to enable real-time authorization updates from ISE without client disconnection. For more information, refer to Cisco Nexus 9000 Series NX-OS Security Configuration Guide, Release 10.6(x).
	Support Dynamic ACL for Voice VLAN and Data VLAN	Beginning with Cisco NX-OS Release 10.6(3)F, Added support for DACL multi-domain mode to provide granular per-client traffic control with rules specific to each MAC address and VLAN. For more information, refer to Cisco Nexus 9000 Series NX-OS Security Configuration Guide, Release 10.6(x).
	Securing NX-OS with Live Protect enhancements	The enhancements to the Live Protect feature that secures NX-OS feature in 10.6(3)F are • policy mode can now be specified while adding policy to the switch • syslog is supported now, and • a new show command is introduced to display the log history for a particular policy. For more information, refer to Cisco Nexus 9000 Series NX-OS Security Configuration Guide, Release 10.6(x).

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Feature Impact	Feature Name	Description
	MACsec ND ISSU	Although Nexus 9300-FX, FX2, and FX3 switches supported non-disruptive(ND) ISSU, ND ISSU was not supported on these switches when MACsec was enabled. Beginning with NX-OS Release 10.6(3)F, these switches support ND ISSU even when MACsec is enabled on their interfaces. For more information, refer to Cisco Nexus 9000 Series Security Configuration Guide, Release 10.6(x).

New hardware features

This section provides a brief description of the new hardware features introduced in Cisco NX-OS Release 10.6(3)F.

N9348Y12C-SE1

Cisco N9348Y12C-SE1 switch is a 1RU switch that supports 5.6 Tbps of bandwidth designed for Layer 2 and Layer 3 networks. This switch is based on the Cisco Silicon One Erbium-lite ASIC. The switch is ideal for a non-oversubscribed solution in a compact form factor.

For supported features on Cisco Nexus N9348Y12C-SE1 switch, refer to Cisco N9300-SE1 Series Switches Data Sheet.

Unsupported Hardware

From Cisco NX-OS Release 10.6(3)F, the following hardware are not supported.

- N2K-C2248TP
- N2K-C2248TP-E
- N2K-C2232TM-E
- N2K-C2232PP
- N2K-C2332TQ
- N2K-C2348TQ
- N2K-C2348TQ-E
- N2K-C2348UPQ
- B22-HP
- B22-DELL
- B22-IBM
- B22-Fujitsu

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.

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Table 2. Resolved issues for Cisco Nexus 9000 Series switches, Release 10.6(3)F

Identifier	Headline
CSCwe59034	Dual Active Detection Status mismatch b/w 'show vpc role' and 'show vpc internal role snmp role'
CSCwf66873	BGP Advertise-map non-exist-map will not function with match attribute statements
CSCwi76298	n9k/vsh/syslog: show run, show run inter, show logging is blocked when high rate of syslog is logged
CSCwi78803	Port w/ 10gig SFP stays down post reload in N3500-XL
CSCwp17208	Flap N9K SPAN destination port may cause forward LACP PDU to other LACP peer
CSCwq16614	N9K FX3P 1G ports with MACsec enabled drop Layer 2 (L2) traffic
CSCwq46504	" max-metric router-lsa on-startup" incorrect default config logic
CSCwq83045	Nexus 9000: Reinit Port-Channel Member Upon Receiving Unexpected flags instead of Err-Disable.
CSCwr37796	Packets drop observed during FCoE uplink PO member port update
CSCwr42548	External application should not be allowed to remove CoPP from config
CSCwr48487	Fs-daemon failures with large amount of files in bootflash
CSCwr51176	GRE traffic is dropped if it needs to cross the Peer-Link and a tunnel interface is configured on the switch
CSCwr59911	N9K/FX2/FX: AN - 100G link might take longer to come up due to repeated/failed FEC checks
CSCwr69167	N9K-C9332D-GX2B and N9K-C93180YC-FX with 4x10G CU5M :On Peer side shut/no shut , complete traffic will be lost
CSCwr69853	n9k/ptp - After GM failover or path change to current GM, MPD value might stay constant
CSCwr79751	Missing IPv6 ACL for HTTP/NTP/FTP/etc. traffic under class-management
CSCwr85409	Traffic Drop seen with multiple sak rekeys on N9396Y12C-SE1,N9336C-SE1,N9396T12C-SE1,N9348Y2C6D-SE1U,N9324C-SE1U
CSCwr86171	Nginx Crash in NX-OS 10.4
CSCwr87622	OTM Crash after reconfiguring track N9k running 10.3
CSCws02056	In Nexus NDB switches, tunnel termination with tunnel profile config + Redirect ACL leads to drops
CSCws09585	Observing no mirror packets when ERSPAN SPAN destination is a port-channel in GX and FX3 LC cards.
CSCws10107	N9K stops advertising BGP routes after flapping BGP sessions with low advertisement-interval
CSCws19374	N9K-C93108TC-FX3 speed negotiation includes unsupported 2.5/5GB speeds on Base-T ports
CSCws19451	system memory-thresholds cli does not show up on show run

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Identifier	Headline
CSCws24607	The EEM policy configured as a combination of event triggers does not work as expected
CSCws26199	show bgp regexp command crashes BGP process
CSCws26585	Incorrect cVpcDualActiveDetectionStatus MIB Value
CSCws26629	Eltm alarms are appearing frequently on a Nexus 9300 series switch when logging into the device
CSCws31847	Service " bloggerd" signal 11 segmentation fault
CSCws32445	VACL with MAC ACL Incorrectly Programmed in Hardware for IPv6 Underlay
CSCws33719	N9300 unexpected SG state when configured as igmp host-proxy and rcv-ing *G pim join
CSCws35761	COPP Dense profile default value is incorrectly in pps
CSCws36619	N3500-XL black-holing L2 mcast traffic in pure L2 topology
CSCws37242	DME Consistency Checker Fails for License
CSCws38283	Block FTE configurations on EX/FX chassis on N9k EOR
CSCws40028	" Match dscp tunnel" doesn't match traffic for non-IP traffic in VXLAN
CSCws42257	SSH Cipher Deny - Connection Closed
CSCws43219	TCP-AO BGP neighborship between Nexus & third-party switch fails when using crypto-algorithm hmac-sha-256
CSCws45858	IPFIB crashes when Multiple NDFC peers are upgraded at once
CSCws47647	Dynamic-Buffer-Sharing CLI Present but Non-Functional
CSCws49629	'system flash sda resize extended' fails on systems utilizing emmc flash
CSCws50158	SNMP and CLI outputs showing different values for memory utilization for Nexus running in LXC mode
CSCws50647	Openconfig interfaces/aggregate lag-speed not reflecting available port-channel bandwidth
CSCws51399	NXAPI Authorization failure with no TACACS traffic generated
CSCws52563	Inherit Port-Profile command missing post upgrade
CSCws53332	Vulnerabilities in curl 8.7.1-r0
CSCws55370	vsan_debug.log file is not truncating when using FCOE, leading to memory leak
CSCws61299	Unable to configure " icam monitor scale" in N9K-C93180YC-FX3H
CSCws61687	VXLAN traffic dropped at remote VTEP when typically reserved VLAN is used for VNI
CSCws61810	N9k: After the upgrade, the PBR becomes inactive.
CSCws66644	Sundown (FX3) Policer Deviation for Low CIR value (<= 500Kbps)

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Identifier	Headline
CSCws69383	Unable to login to console after numerous failed SSH login attempts
CSCws75763	telemetry : arp process core with sys/arp/inst ephemeral sensor
CSCws80252	NX-100 : Vman core in idle state of G200 after S1 ISSU
CSCws83739	N9K-C9364C-GX ICAM LPM scale number issue
CSCws84657	NETCONF/XML broken with ISSU
CSCws90013	Executing the ex command will result in an error and will not complete successfully
CSCws92849	NETCONF L3 Configuration Push May Crash Device Agent
CSCws93840	UFDM process crash on N9K-C9348GC-FX3PH during interface flap testing
CSCwt01093	Dot1x authentication fails as Nexus sending eap-failure post ISE patch 3.3P8 and above
CSCwt01139	PBR statistics not show the stats properly
CSCwt08893	Switch doesn't re-establish BMP session after monitoring station reload.
CSCwt13956	N9K will propagate TC out from the root port when (Root Inconsistent) interface receiving the TC
CSCwt15427	L2 multicast traffic drops in IGMP setup with consistency checker failure for MET PTR in hardware and software
CSCwt21248	Nexus9800 downgrade from 10.6.3 to 10.5.x incompatibility-check doesn't detect pim-sparse on L3 PO interface
CSCwt21539	show interface brief command showing incorrect native vlan
CSCwt25882	NXOS Upgrade failure leaves Nexus stuck in bash prompt
CSCwt30826	Vlan mapping configuration stuck in ethernet port configuration
CSCwt31353	n9k/infra: infra convert log might fill logflash FS in case of binary config corruption
CSCwt31552	n9k/nfm: invalid ifindex in binary config pss
CSCwt33727	SNMP Hangs after continuous polling + stuck snmp mts buffers
CSCwt36003	tahusd crash when QSFP with 200g+ speed inserted and "no shut" on N9K type EX/FX/FX2/FX3
CSCwt36004	LLDP process is crashing continuously and generating core files.
CSCwt38794	N9K-C9516 NX-OS 10.4(4) diagmgr segfault in diagmgr_mts_send_hm_cfg during LC offline handling triggers HA policy reset / chassis reload
CSCwt39793	Anycast SVI interface IPv6 enter to TEN State after config replace or chassis reload
CSCwt40258	N9K-C93180YC-FX3 100G QSFP MACsec interface stays up despite remote shutdown/reload.
CSCwt43381	N9k BUM Encapsulation failure for Traffic from Private Vlan Host ports

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Identifier	Headline
CSCwt48469	MACsec in Nexus9K using 10.5(4) version is stuck in PENDING state while in Cat9K is up and SECURED
CSCwt49006	Non-ISSU ready HIFs on FEX (N9K-C93108TC-FX3P) are not properly listed when running " show lacp issu-impact"
CSCwt49540	Ingress-NAT flows leave switch without NAT for few milliseconds during OIF addition/deletion
CSCwt50336	N9k: OSPF route remains in routing table despite neighbor state being 'Init'
CSCwt50391	NX-OS: BGP process traceback/assertion failure 'tmp_com == del_com' during community deletion
CSCwt51843	Unexpected reload after upgrade due to aclqos hap reset
CSCwt52171	default interface command does not clear all VLANs from allowed list on the first execution
CSCwt57234	ECMP IPv6 Route learnt over VXLAN EVPN as Type-5 Route programmed incorrectly in FIB
CSCwt57903	switch can not process CDP packets on impacted port-channel interfaces
CSCwt59437	RPF not updated properly for PIM Bidir with phantom RP when route for RP is updated
CSCwt62258	monitor hap reset after removing SAN port-channel
CSCwt65140	C93180YC-FX3 with vlan policy-map, does not map non-ip packets with COS to qos groups on output to spine (Vxlan Fabric)
CSCwt81214	Exported flow-record Duration is negative, StartTime more than EndTime
CSCwt89636	" vn-segment xxx" added under VLAN while adding name to the VLAN in without VXLAN features enabled.

Open issues

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

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.

Table 3. Open issues for Cisco Nexus 9000 Series switches, Release 10.6(3)F

Bug ID	Headline
CSCwt35981	After firmware upgrade, functionality is not effective unless Explicit OIR is done

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Known issues

This table lists the limitations for this release. Click the bug ID to access the Cisco Bug Search Tool and see additional information.

Table 4. Known issues for Cisco Nexus 9000 Series switches, Release 10.6(3)F

Bug ID	Headline
CSCvt37624	'The BGP instance is not in expected state' after quick bgp unconfig / reconfig with 700K ipv4 pfx
CSCvz63028	traditional mpls strip not working with Multicast dst-mac
CSCwh44244	DME inconsistency in sys/mplsta-[eth1/7/1] object after some CLI sequence
CSCwh88451	URIB crashed on urib_chlist_segv_handler after restarting bgp and urib together
CSCwi22304	TTL is not decremented for decap L3 VPN traffic on N9800
CSCwi24238	With NDFC/auto-config, VPC peer-link stays down on disable 'feature tunnel-encryption'
CSCwi57646	ESG_SGACL: Source of MAC detail is not seen in json output of MAC table
CSCwi87175	slight drop in L2 multicast performance in N9K-C9364C-H1 switch
CSCwi95768	Loopback Ping is not working after enabling MPLS LDP at Interface
CSCwi95977	DME CC failure for mutiisite virtual rmac
CSCwq46356	Link down during firmware activation from 71.110.17 to latest version on DP04QSDD-E25-001(ZR)
CSCwr42082	0 unicast packets 0 multicast packets 0 broadcast packets not working on N9336C-SE1 pids - N9K-C9808,N9K-C9804
CSCwr44095	On 800g optics, xcvr type is changed
CSCwr44194	Auth Mode is not " remote" for remote users post ISSU from 10.6(1) to 10.6.(2)
CSCwr50915	N9396T12C-SE1 QSFP port (97-108) with link having Copper cable does not come up as these ports does not support auto negotiation. For copper cables " no negotiate auto" needs to be configured.
CSCwr99585	NFM-RTP-SCALE: gNMIC get fails for RTP flows greater than 16K

Scalability

Cisco NX-OS configuration limits for Cisco Nexus 9000 Series switches are described in the Verified Scalability Guide. See Cisco Nexus 9000 Series NX-OS Verified Scalability Guide, Release 10.6(3)F.

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Supported hardware

This section lists the hardware support information for Cisco Nexus 9000 Series switches

Table 5. Cisco Nexus 9800 Switches

Product ID	Description
N9K-C9808	16-RU modular switch with slots for up to 8 Line Cards in addition to 2 supervisors, 8 fabric modules, 4 fan trays, and 3 power trays.
N9K-C9804	10-RU modular switch with slots for up to 4 Line Cards in addition to 2 supervisors, 8 fabric modules, 4 fan trays, and 2 power trays.

Table 6. Cisco Nexus 9800 Series Line Cards

Product ID	Description
N9K-X9836DM-A	Cisco Nexus 9800 36-port 400G QSFP-DD Line Card with MACsec.
N9K-X98900CD-A	Cisco Nexus 9800 14-port 400G QSFP-DD + 34-port 100G QSFP28 Line Card.

Table 7. Cisco Nexus 9800 Series Fabric Modules

Product ID	Description
N9K-C9808-FM-A	Cisco Nexus 9800 Fabric Module for 8-slot Chassis
N9K-C9804-FM-A	Cisco Nexus 9800 Fabric Module for 4-slot Chassis

Table 8. Cisco Nexus 9800 Supervisor Module

Product ID	Description
N9K-C9800-SUP-A	Cisco Nexus 9800 Platform Supervisor Module
N9K-C9800-SUP-B	Cisco Nexus 9800 Platform Supervisor Module

Table 9. Cisco Nexus 9800 Fans and Fan Trays

Product ID	Description
N9K-C9808-FAN-A	Cisco Nexus 9800 8-slot chassis fan tray (1st Generation)
N9K-C9804-FAN-A	Cisco Nexus 9800 4-slot chassis fan tray (1st Generation)

Table 10. Cisco Nexus 9800 Power Supplies

Product ID	Description
N9K-HV 6.3KW 20A-A	Cisco Nexus 9800 6,300W 20A AC and HV Power Supply

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Table 11. Cisco Nexus 9500 Switches

Product ID	Description
N9K-C9504	7-RU modular switch with slots for up to 4 Line Cards in addition to two supervisors, 2 system controllers, 3–6 fabric modules, 3 fan trays, and up to 4 power supplies.
N9K-C9508	13-RU modular switch with slots for up to 8 Line Cards in addition to two supervisors, 2 system controllers, 3–6 fabric modules, 3 fan trays, and up to 8 power supplies.
N9K-C9516	21-RU modular switch with slots for up to 16 Line Cards in addition to two supervisors, 2 system controllers, 3–6 fabric modules, 3 fan trays, and up to 10 power supplies.

Table 12. Cisco Nexus 9500 Cloud Scale Line Cards

Product ID	Description	Maximum Quantity		
		Cisco Nexus 9504	Cisco Nexus 9508	Cisco Nexus 9516
N9K-X9716D-GX	Cisco Nexus 9500 16-port 400G QSFP-DD Line Card	4	8	N/A
N9K-X9736C-FX	Cisco Nexus 9500 36-port 40/100 Gigabit Ethernet QSFP28 Line Card	4	8	16
N9K-X9788TC-FX	Cisco Nexus 9500 48-port 1/10-G BASE-T Ethernet and 4-port 40/100 Gigabit Ethernet QSFP28 Line Card	4	8	16
N9K-X97160YC-EX	Cisco Nexus 9500 48-port 10/25-Gigabit Ethernet SFP28 and 4-port 40/100 Gigabit Ethernet QSFP28 Line Card	4	8	16
N9K-X9732C-FX	Cisco Nexus 9500 32-port 40/100 Gigabit Ethernet QSFP28 Line Card	4	8	16
N9K-X9736C-FX3	Cisco Nexus 9500 36-port 100-Gigabit Ethernet QSFP28 line card	4	8	16

Table 13. Cisco Nexus 9500 R-Series Line Cards

Product ID	Description	Maximum Quantity	
		Cisco Nexus 9504	Cisco Nexus 9508
N9K-X9636C-R	Cisco Nexus 9500 36-port 40/100 Gigabit Ethernet QSFP28 Line Card	4	8
N9K-X9636C-RX	Cisco Nexus 9500 36-port 40/100 Gigabit Ethernet QSFP28 Line Card	4	8
N9K-X9636Q-R	Cisco Nexus 9500 36-port 40-Gigabit Ethernet QSFP Line Card	4	8

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Product ID	Description	Maximum Quantity	
		Cisco Nexus 9504	Cisco Nexus 9508
N9K-X96136YC-R	Cisco Nexus 9500 16-port 1/10 Gigabit, 32-port 10/25 Gigabit, and 4-port 40/100 Gigabit Ethernet Line Card	4	8
N9K-X9624D-R2	Cisco Nexus 9500 24-port 400-Gigabit QDD Line Card	Not supported	8

Table 14. Cisco Nexus 9500 Cloud Scale Fabric Modules

Product ID	Description	Minimum	Maximum
N9K-C9504-FM-E	Cisco Nexus 9504 100-Gigabit cloud scale fabric module	4	5
N9K-C9504-FM-G	Cisco Nexus 9500 4-slot 1.6Tbps cloud scale fabric module	4	5
N9K-C9508-FM-E	Cisco Nexus 9508 100-Gigabit cloud scale fabric module	4	5
N9K-C9508-FM-E2	Cisco Nexus 9508 100-Gigabit cloud scale fabric module	4	5
N9K-C9508-FM-G	Cisco Nexus 9500 8-slot 1.6Tbps cloud-scale fabric module	4	5
N9K-C9516-FM-E2	Cisco Nexus 9516 100-Gigabit cloud scale fabric module	4	5

Table 15. Cisco Nexus 9500 R-Series Fabric Modules

Product ID	Description	Minimum	Maximum
N9K-C9504-FM-R	Cisco Nexus 9504 100-Gigabit R-Series fabric module	4	6
N9K-C9508-FM-R	Cisco Nexus 9508 100-Gigabit R-Series fabric module	4	6
N9K-C9508-FM-R2	Cisco Nexus 9508 400-Gigabit R-Series fabric module	4	6

Table 16. Cisco Nexus 9500 Supervisor Modules

Supervisor	Description	Maximum
N9K-SUP-A	1.8-GHz supervisor module with 4 cores, 4 threads, and 16 GB of memory	2
N9K-SUP-A+	1.8-GHz supervisor module with 4 cores, 8 threads, and 16 GB of memory	2
N9K-SUP-B	2.2-GHz supervisor module with 6 cores, 12 threads, and 24 GB of memory	2
N9K-SUP-B+	1.9-GHz supervisor module with 6 cores, 12 threads, and 32 GB of memory	2

Note: N9K-SUP-A and N9K-SUP-A+ are not supported on Cisco Nexus 9504 and 9508 switches with -R and -R2 Line Cards.

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Table 17. Cisco Nexus 9500 System Controller

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

Table 18. Cisco Nexus 9500 Fans and Fan Trays

Product ID	Description	Quantity
N9K-C9504-FAN	Fan tray for 4-slot modular chassis	3
N9K-C9504-FAN2	Fan tray that supports the Cisco N9K-C9504-FM-G fabric module	3
N9K-C9508-FAN	Fan tray for 8-slot modular chassis	3
N9K-C9508-FAN2	Fan tray that supports the Cisco N9K-C9508-FM-G fabric module	3
N9K-C9516-FAN	Fan tray for 16-slot modular chassis	3

Table 19. Cisco Nexus 9500 Fabric Module Blanks with Power Connector

Product ID	Description	Minimum	Maximum
N9K-C9504-FAN-PWR	Cisco Nexus 9500 4-slot chassis 400G cloud scale fan tray power connector	1	2
N9K-C9508-FAN-PWR	Cisco Nexus 9500 4-slot chassis 400G cloud scale fan tray power connector	1	2

Table 20. Cisco Nexus 9500 Power Supplies

Product ID	Description	Quantity	Cisco Nexus Switches
N9K-PAC-3000W-B	3-KW AC power supply	Up to 4 Up to 8 Up to 10	Cisco Nexus 9504 Cisco Nexus 9508 Cisco Nexus 9516
N9K-PDC-3000W-B	3-KW DC power supply	Up to 4 Up to 8 Up to 10	Cisco Nexus 9504 Cisco Nexus 9508 Cisco Nexus 9516
N9K-PUV-3000W-B	3-KW Universal AC/DC power supply	Up to 4 Up to 8 Up to 10	Cisco Nexus 9504 Cisco Nexus 9508 Cisco Nexus 9516
N9K-PUV2-3000W-B	3.15-KW Dual Input Universal AC/DC Power Supply	Up to 4 Up to 8 Up to 10	Cisco Nexus 9504 Cisco Nexus 9508 Cisco Nexus 9516

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Table 21. Cisco Nexus 9400 Switches

Product ID	Description
N9K-C9408	4-RU, 8-slot centralized modular chassis switch, which is configurable with up to 128 200-Gigabit QSFP56 (256 100 Gigabit by breakout) ports or 64 400-Gigabit ports.
N9K-C9400-SUP-A	Cisco Nexus 9400 Supervisor Card
N9K-C9400-SW-GX2A	Cisco Nexus 9400 25.6Tbps Switch Card
N9K-X9400-8D	Cisco Nexus 9400 8p 400G QSFP-DD LEM
N9K-X9400-16W	Cisco Nexus 9400 16p 200G QSFP56 LEM
N9K-X9400-22L	Cisco Nexus 9400 LEM with 22 10G/25G/50G ports.

Table 22. Cisco Nexus 9200 and 9300 Switches

Cisco Nexus Switch	Description
N9K-C92348GC-FX3	1 RU fixed-port switch 48 10/100/1000M copper RJ-45 downlink ports, 4 10-/25G SFP28 uplink ports, and 2 40-/100G QSFP28 uplink ports.
N9K-C93400LD-H1	1-RU fixed-port, L2/L3 switch with 48 50G SFP56 ports and 4 400G QSFP-DD uplink ports.
N9K-C93108TC-FX3	1 RU fixed-port switch Forty-eight 100M/1G/10GBASE-T ports (ports 1-48), Six 40/100-Gigabit ports QSFP28 (ports 49-54), Two management ports (one 10/100/1000BASE-T port and one SFP port), One console port (RS-232), and one USB port.
N9K-C9332D-H2R	1-RU fixed-port switch with 400-Gigabit QSFP-DD ports (32), 10-Gigabit SFP+ ports (2), Management ports (one 10/100/1000BASE-T port and one SFP port), console port (RS-232), and USB port.
N9K-C9348GC-FX3	1 RU fixed-port switch 48 10/100/1000M copper RJ-45 downlink ports, 4 10-/25G SFP28 uplink ports, and 2 40-/100G QSFP28 uplink ports.
N9K-C9348GC-FX3PH	1-RU fixed-port switch 40 10M/100M/1G copper RJ-45 downlink ports that support PoE/PoE+/PoE++ and 8 10M/100M copper RJ-45 downlink ports that support PoE/PoE+/PoE++, 4 10-/25G SFP28 uplink ports, and 2 40-/100G QSFP28 uplink ports.
N9K-C93180YC-FX3H	1-RU fixed-port switch with 24 100M/1/10/25-Gigabit Ethernet SFP28 ports (ports 1-24), 6 10/25/40/50/100-Gigabit QSFP28 ports (ports 49-54), One management port (one 10/100/1000BASE-T port), and One console port (RS-232)
N9K-C9316D-GX	1-RU switch with 16x400/100/40-Gbps ports.
N9K-C9364C-GX	2-RU fixed-port switch with 64 100-Gigabit SFP28 ports.
N9K-C93600CD-GX	1-RU fixed-port switch with 28 10/40/100-Gigabit QSFP28 ports (ports 1-28), 8 10/40/100/400-Gigabit QSFP-DD ports (ports 29-36)
N9K-C9364C-H1	2-RU fixed-port switch with 64 100G SFP28 ports.

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Cisco Nexus Switch	Description
N9K-C9332D-GX2B	1-Rack-unit (1-RU) spine switch with 32p 400/100-Gbps QSFP-DD ports and 2p 1/10 SFP+ ports.
N9K-C9348D-GX2A	48p 40/100/400-Gigabit QSFP-DD ports and 2p 1/10G/10G SFP+ ports
N9K-C9364D-GX2A	64p 400/100-Gigabit QSFP-DD ports and 2p 1/10 SFP+ ports
N9K-C93180YC-FX3	48 1/10/25 Gigabit Ethernet SFP28 ports (ports 1–48) 6 10/25/40/50/100-Gigabit QSFP28 ports (ports 49–54)
N9K-C93180YC-FX3S	48 1/10/25 Gigabit Ethernet SFP28 ports (ports 1–48) 6 10/25/40/50/100-Gigabit QSFP28 ports (ports 49–54)
N9K-C9336C-FX2-E	1-RU switch with 36 40-/100-Gb QSFP28 ports
N9K-C9336C-FX2	1-RU switch with 36 40-/100-Gb Ethernet QSFP28 ports
N9K-C93360YC-FX2	2-RU switch with 96 10-/25-Gigabit SFP28 ports and 12 40/100-Gigabit QSFP28 ports
N9K-C93240YC-FX2	1.2-RU Top-of-Rack switch with 48 10-/25-Gigabit SFP28 fiber ports and 12 40-/100-Gigabit Ethernet QSFP28 ports.
N9K-C93216TC-FX2	2-RU switch with 96 100M/1G/10G RJ-45 ports, 12 40/100-Gigabit QSFP28 ports, 2 management ports (one RJ-45 and one SFP port), 1 console port, and 1 USB port.
N9K-C93180YC-FX	1-RU Top-of-Rack switch with 10-/25-/32-Gigabit Ethernet/FC ports and 6 40-/100-Gigabit QSFP28 ports. You can configure the 48 ports as 1/10/25-Gigabit Ethernet ports or as FCoE ports or as 8-/16-/32-Gigabit Fibre Channel ports.
N9K-C93180YC-FX-24	1 RU 24 1/10/25-Gigabit Ethernet SFP28 front panel ports and 6 fixed 40/100-Gigabit Ethernet QSFP28 spine-facing ports. The SFP28 ports support 1-, 10-, and 25-Gigabit Ethernet connections and 8-, 16-, and 32-Gigabit Fibre Channel connections.
N9K-C93108TC-FX	1-RU Top-of-Rack switch with 48 100M/1/10GBASE-T (copper) ports and 6 40-/100-Gigabit QSFP28 ports
N9K-C93108TC-FX-24	1 RU 24 1/10GBASE-T (copper) front panel ports and 6 fixed 40/100-Gigabit Ethernet QSFP28 spine-facing ports.
N9K-C93108TC-FX3P	1-RU fixed-port switch with 48 100M/1/2.5/5/10GBASE-T ports and 6 40-/100-Gigabit QSFP28 ports
N9K-C9348GC-FXP [1]	Cisco Nexus 9300 with 48p 100M/1 G, 4p 10/25 G SFP+ and 2p 100 G QSFP

[1] For N9K-C9348GC-FXP the PSU SPROM is not readable when the PSU is not connected. The model displays as "UNKNOWN" and status of the module displays as "shutdown."

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Table 23. Cisco Nexus 9200 and 9300 Fans and Fan Trays

Product ID	Description	Quantity	Cisco Nexus Switches
NXA-SFAN-30CFM-PE	Fan module with port-side exhaust airflow (blue coloring)	3	9348GC-FX3
NXA-SFAN-30CFM-PI	Fan module with port-side intake airflow (burgundy coloring)	3	9348GC-FX3
NXA-SFAN-30CFM-PE	Fan module with port-side exhaust airflow (blue coloring)	3	9348GC-FX3PH
NXA-SFAN-30CFM-PI	Fan module with port-side intake airflow (burgundy coloring)	3	9348GC-FX3PH
NXA-SFAN-35CFM-PI	Fan module with port-side intake airflow (burgundy coloring)	6 5 4	9332D-H2R 93400LD-H1 93108TC-FX3
NXA-SFAN-35CFM-PE	Fan module with port-side exhaust airflow (blue coloring)	6 5 4	9332D-GX2B 93400LD-H1 93108TC-FX3
NXA-SFAN-35CFM-PI	Fan module with port-side intake airflow (burgundy coloring)	6	9332D-GX2B
NXA-FAN-160CFM-PE	Fan module with port-side exhaust airflow (blue coloring)	3	9364C [2] 93360YC-FX2
NXA-FAN-160CFM-PI	Fan module with port-side intake airflow (burgundy coloring)	3	9364C **Error! Reference source not found.**[1] **Error! Reference source not found.Error! Reference source not found.Error! Reference source not found.Error! Reference source not found.**93360YC-FX2**Error! Reference source not found.Error! Reference source not found.**
NXA-FAN-160CFM2-PE	Fan module with port-side exhaust airflow (blue coloring)	4	9364C-GX

[2] For specific fan speeds see the Overview section of the Hardware Installation Guide.

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Product ID	Description	Quantity	Cisco Nexus Switches
NXA-FAN-160CFM2-PI	Fan module with port-side intake airflow (burgundy coloring)	4	9364C-GX
NXA-FAN-30CFM-B	Fan module with port-side intake airflow (burgundy coloring)	3	93108TC-FX 93180YC-FX 9348GC-FXP
NXA-FAN-30CFM-F	Fan module with port-side exhaust airflow (blue coloring)	3	93108TC-FX 93180YC-FX 9348GC-FXP
NXA-FAN-35CFM-PE	Fan module with port-side exhaust airflow (blue coloring)	4 6	92300YC Error! Reference source not found.[1] 9332C Error! Reference source not found.[1] 93180YC-FX3S [3] 93180YC-FX3 93108TC-FX3P 93180YC-FX3H 9336C-FX2-E 9316D-GX 93600CD-GX
NXA-FAN-35CFM-PI	Fan module with port-side intake airflow (burgundy coloring) Fan module with port-side exhaust airflow (blue coloring)	4 6 6	92300YC [1] 9332C [1] 93180YC-FX3S [2] 93180YC-FX3 93108TC-FX3P 93180YC-FX3H 9316D-GX 93600CD-GX 9336C-FX2-E
NXA-FAN-65CFM-PE	Fan module with port-side exhaust airflow (blue coloring)	3	93240YC-FX2 [1] 9336C-FX2 [1]
NXA-FAN-65CFM-PI	Fan module with port-side exhaust airflow (burgundy coloring)	3	93240YC-FX2 9336C-FX2 [1]

[3] This switch runs with +1 redundancy mode so that if one fan fails, the switch can sustain operation. But if a second fan fails, this switch is not designed to sustain operation. Hence before waiting for the major threshold temperature to be hit, the switch will power down due to entering the fan policy trigger command.

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Table 24. Cisco Nexus 9200 and 9300 Power Supplies

Product ID	Description	Quantity	Cisco Nexus Switches
NXA-PDC-715W-PI	715-W DC power supply with port-side intake airflow (blue coloring)	2	93108TC-FX3P
NXA-PDC-440W-PE	440-W DC power supply with port-side exhaust airflow (blue coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PDC-440W-PI	440-W DC power supply with port-side intake airflow (burgundy coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PHV-350W-PE	350-W AC power supply with port-side exhaust airflow (blue coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PHV-350W-PI	350-W AC power supply with port-side intake airflow (burgundy coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PAC-350W-PE2	350-W AC power supply with port-side exhaust airflow (blue coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PAC-350W-PI2	350-W AC power supply with port-side intake airflow (burgundy coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PAC-1900W-PE	1900-W AC power supply with port-side exhaust airflow (blue coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PAC-1900W-PI	1900-W AC power supply with port-side intake airflow (burgundy coloring)	2	9348GC-FX3 9348GC-FX3PH
NXA-PHV-2KW-PI	2000-W HVDC power supply with port-side intake airflow (burgundy coloring)	2	9332D-H2R 93400LD-H1
NXA-PAC-1500W-PE	1500-W AC power supply with port-side exhaust airflow (blue coloring)	2	9332D-GX2B
NXA-PAC-1500W-PI	1500-W AC power supply with port-side intake airflow (burgundy coloring)	2	9332D-GX2B
NXA-PAC-500W-PE	500-W AC power supply with port-side exhaust airflow (blue coloring)	2	93180YC-FX 93108TC-FX3
NXA-PAC-500W-PI	500-W AC power supply with port-side intake airflow (burgundy coloring)	2	93180YC-FX 93108TC-FX3
NXA-PAC-650W-PE	650-W AC power supply with port-side exhaust (blue coloring)	2	92300YC 93180YC-FX3S 93180YC-FX3 93180YC-FX3H
NXA-PAC-650W-PI	650-W AC power supply with port-side intake (burgundy coloring)	2	92300YC 93180YC-FX3S 93180YC-FX3 93180YC-FX3H

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Product ID	Description	Quantity	Cisco Nexus Switches
NXA-PAC-750W-PE	750-W AC power supply with port-side exhaust airflow (blue coloring) 1	2	9336C-FX2 9336C-FX2-E 9332C 93240YC-FX2
NXA-PAC-750W-PI	750-W AC power supply with port-side intake airflow (burgundy coloring) 1	2	9336C-FX2 9336C-FX2-E 9332C 93240YC-FX2
NXA-PAC-1100W-PE3	1100-W AC power supply with port-side exhaust airflow (blue coloring)		9316D 93240YC-FX2 93540CD-GX 9336C-FX2 9336C-FX2-E 9336C-SE1 93600CD-GX
NXA-PAC-1100W-PI3	1100-W AC power supply with port-side intake airflow (burgundy coloring)		9316D 93240YC-FX2 93540CD-GX 9336C-FX2 9336C-FX2-E 9336C-SE1 93600CD-GX
NXA-PAC-1100W-PE2	1100-W AC power supply with port-side exhaust airflow (blue coloring)	2	93240YC-FX2 9332C 9316D-GX 9336C-FX2 9336C-FX2-E 93600CD-GX
NXA-PAC-1100W-PI2	1100-W AC power supply with port-side intake airflow (burgundy coloring)	2	93240YC-FX2 9332C 9316D-GX 9336C-FX2 9336C-FX2-E 93600CD-GX
NXA-PAC-1100W-PI	Cisco Nexus 9000 PoE 1100W AC PS, port-side intake	2	93108TC-FX3P
NXA-PAC-1100W-PE	Cisco Nexus 9000 PoE 1100W AC PS, port-side exhaust	2	93108TC-FX3P
NXA-PAC-1900W-PI	Cisco Nexus 9000 PoE 1900W AC PS, port-side intake	2	93108TC-FX3P
NXA-PAC-1200W-PE	1200-W AC power supply with port-side exhaust airflow (blue coloring)	2	93360YC-FX2 9364C
NXA-PAC-1200W-PI	1200-W AC power supply with port-side intake airflow (burgundy coloring)	2	93360YC-FX2 9364C
NXA-PAC-1400W-PE	1400-W AC power supply with port-side exhaust airflow (blue coloring)	2	93400LD-H1

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Product ID	Description	Quantity	Cisco Nexus Switches
NXA-PAC-1400W-PI	1400-W AC power supply with port-side intake airflow (burgundy coloring)	2	93400LD-H1
N9K-PUV-1200W	1200-W Universal AC/DC power supply with bidirectional airflow (white coloring)	2	92300YC 93108TC-FX 93360YC-FX2 93180YC-FX3S 93180YC-FX 9364C 93108TC-FX3
NXA-PDC-930W-PE	930-W DC power supply with port-side exhaust airflow (blue coloring)	2	93360YC-FX2 93180YC-FX3S 93180YC-FX 9364C 93180YC-FX3H 93108TC-FX3
NXA-PDC-930W-PI	930-W DC power supply with port-side intake airflow (burgundy coloring)	2	93360YC-FX2 93180YC-FX3S 93180YC-FX 9364C 93180YC-FX3H 93108TC-FX3
NXA-PDC-1100W-PE	1100-W DC power supply with port-side exhaust airflow (blue coloring)	2	93240YC-FX2 93600CD-GX 9316D-GX 9332C 9336C-FX2 9336C-FX2-E
NXA-PDC-1100W-PI	1100-W DC power supply with port-side intake airflow (burgundy coloring)	2	93240YC-FX2 93600CD-GX 9316D-GX 9332C 9336C-FX2 9336C-FX2-E
NXA-PHV-1100W-PE	1100-W AC power supply with port-side exhaust airflow (blue coloring)	2	93240YC-FX2 9336C-FX2
NXA-PHV-1100W-PI	1100-W AC power supply with port-side intake airflow (burgundy coloring)	2	93240YC-FX2 9336C-FX2
NXA-PAC-2KW-PE	2000-W AC power supply with port-side exhaust airflow (blue coloring)	2	9364C-GX
NXA-PAC-2KW-PI	2000-W AC power supply with port-side intake airflow (burgundy coloring)	2	9364C-GX 9332D-H2R
NXA-PDC-2KW-PE	2000-W DC power supply with port-side exhaust airflow (blue coloring	2	9364C-GX 93400LD-H1
NXA-PDC-2KW-PI	2000-W DC power supply with port-side intake airflow (burgundy coloring)	2	9364C-GX 9332D-H2R 93400LD-H1

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Product ID	Description	Quantity	Cisco Nexus Switches
N2200-PAC-400W	400-W AC power supply with port-side exhaust airflow (blue coloring)	2	92348GC-X
N2200-PAC-400W-B	400-W AC power supply with port-side intake airflow (burgundy coloring)	2	92348GC-X
N2200-PDC-350W-B	350-W DC power supply with port-side intake airflow	2	92348GC-X
N2200-PDC-400W	400-W DC power supply with port-side exhaust airflow (blue coloring)	2	92348GC-X

Compatibility

This section lists compatibility information for Cisco Nexus 9000 Series switches.

Table 25. Cisco Nexus 9500 Cloud Scale Line Cards

Product ID	N9K-C9504-FM-G	N9K-C9508-FM-G	N9K-C9504-FM-E	N9K-C9508-FM-E	N9K-C9508-FM-E2	N9K-C9516-FM-E2
N9K-X9716D-GX	4	4	No	No	No	No
N9K-X9736C-FX	5	5	5	5	5	5
N9K-X9788TC-FX	4	4	4	4	4	4
N9K-X97160YC-EX	4	4	4	4	4	4
N9K-X9732C-FX	4 5 (n+1 redundancy)	4 5 (n+1 redundancy)	4 5 (n+1 redundancy)	4 5 (n+1 redundancy)	4 5 (n+1 redundancy)	4 5 (n+1 redundancy)
N9K-X9736C-FX3	5 (n+1 redundancy)	5 (n+1 redundancy)	5 (n+1 redundancy)	5 (n+1 redundancy)	5 (n+1 redundancy)	5 (n+1 redundancy)

Table 26. Cisco Nexus 9500 R-Series Line Cards

Product ID	N9K-C9504-FM-R	N9K-C9508-FM-R
N9K-X9636C-RX	6	6
N9K-X9636Q-R	4 6 (n+2 redundancy)	4 6 (n+2 redundancy)
N9K-X9636C-R	5 6 (n+1 redundancy)	5 6 (n+1 redundancy)
N9K-X96136YC-R	6	6

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Table 27. Cisco Nexus 9500 R2-Series Line Cards

Product ID	N9K-C9508-FM-R2
N9K-X9624D-R2	6

Supported software packages

This section provides information about the release packages associated with Cisco Nexus 9000 Series switches.

Table 28. Software packages for Cisco Nexus 9000 Series switches, Release 10.6(3)F

Software package	Description	Release
nxos64-cs.<version>.bin	64-bit NX-OS core system image for most Cisco Nexus 9000 series switches	10.6(3)F
nxos64-s1.<version>.bin	64-bit NX-OS core system image for Silicon One Cisco Nexus 9000 series switches	10.6(3)F
nxos64-msll.<version>.bin	64-bit NX-OS core system image for Nexus 9000 -R and -R2 modular switches	10.6(3)F
nxos64-s1-dpu.<version>.bin	64-bit NX-OS core system image, mandatory for Cisco Nexus Smart Switches (N9324C-SE1U and N9348Y2C6D-SE1U)	10.6(3)F
nexus9300v.<version>.qcow2 nexus9300v.<version>.ova nexus9300v.<version>.box nexus9500v.<version>.qcow2 nexus9500v.<version>.ova nexus9500v.<version>.box	64-bit NX-OS core system image, mandatory for Cisco Nexus 9000v Series switches	10.6(3)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 9000 Series Switches	Cisco Nexus 9000 Series Switches 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-NX-API REST SDK User Guide and API Reference

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Document Title	Description
Cisco NX-OS Licensing Guide Cisco Nexus 9000 and 3000 Series NX-OS Switch License Navigator Cisco Nexus Smart Licensing Using Policy User Guide	Licensing Information When you downgrade from Cisco NX-OS Release 10.6(1)F to an earlier release, the features that use the ACI+NX-OS Essentials, Advantage, and add-on licenses or the Hardware Streaming Telemetry license continue to work in honor mode in the downgraded version. In addition, the output of the show license usage command continues to include entries for these unsupported licenses.
Cisco Nexus 9000 Series NX-OS Software Upgrade and Downgrade Guide	Cisco Nexus 9000 Series Software Upgrade and Downgrade Guide
Cisco Nexus 9000 Series FPGA/EPLD Upgrade Release Notes	Cisco Nexus 9000 Series FPGA/EPLD Upgrade Release Notes
https://cisco.github.io/cisco-mibs/supportlists/nexus9000/Nexus9000MIBSupportList.html	Cisco NX-OS Supported MIBs
Cisco Nexus 9000 Series Switch FEX Support Matrix	Supported FEX modules
Cisco Nexus 9000 Series Hardware Installation Guides	Cisco Nexus 9000 Series Hardware Installation Guides

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