



Cisco MDS 9000 Series Release Notes

Release 9.2(1)

This document describes the features, issues, and deployment guidelines for the Cisco MDS NX-OS software for the use on the Cisco MDS 9000 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.

Note: Release notes are updated on an as needed basis with new information on restrictions and issues. Refer to the following website for the most recent version of the [Cisco MDS 9000 Series Release Notes](#).

Date	Description
August 29, 2025	Upgrading and Downgrading Cisco MDS NX-OS Software Image sections are moved to Cisco MDS 9000 NX-OS Software Upgrade and Downgrade Guide, Release 9.x.
August 18, 2025	Added CSCwn10124 in the Open Issues section.
May 15, 2025	Added CSCwd00610 in the Open Issues section.
March 25, 2025	Added CSCwo03706 in the Open Issues section.
November 06, 2023	Added CSCvv93277 in the Resolved Issues section.
July 03, 2023	Added CSCwe08911 in the Open Issues section.
June 16, 2023	Add restriction for over subscription caused by FPIN notifications.
March 16, 2023	Added CSCwb48133 in the Open Issues section.
August 8, 2022	Added CSCwa86129 in the Open Issues section.
May 12, 2022	Added CSCvw91665 in the Open Issues section.
March 23, 2022	Added CSCwb14523 in the Open Issues section.
March 2, 2022	Added CSCwb07996 in the Open Issues section.
January 28, 2022	Added upgrading guideline for Cisco MDS 48-Port 64-Gbps Fibre Channel Switching Module (DS-X9748-3072K9).
December 15, 2021	Added CSCuv76123 in the Open Issues section.
September 29, 2021	Added CSCvz65820 in the Open Issues section.
September 20, 2021	Added CSCvz09012 in the Open Issues section.
September 8, 2021	Added CSCvz32361 in the Resolved Issues section.
August 25, 2021	Release 9.2(1) became available.

Introduction

The Cisco MDS 9000 Series of Multilayer Directors and Fabric Switches provide best-in-class high availability, scalability, security, and management, that enables to deploy high-performance storage-area networks. Layering a rich set of intelligent features onto a high-performance switch fabric, the Cisco MDS 9000 Series addresses the stringent requirements of large data center storage environments: high availability, security, scalability, ease of management, and seamless integration of new technologies.

About Software Images

The Cisco MDS NX-OS operating system is shipped with the Cisco MDS 9000 Series Switches. The Cisco MDS NX-OS software consists of two images: the kickstart image and the system image. These images can be upgraded or downgraded to different versions. The versions of both images must match for the system to boot.

Each model of Cisco MDS switch has unique kickstart and system images. For more information on the image names for each Cisco MDS switch, see the [Cisco MDS 9000 NX-OS Software Upgrade and Downgrade Guide, Release 9.x](#).

To download new Cisco MDS 9000 Series software, including Cisco MDS NX-OS and Cisco DCNM management software, go to the Storage Networking Software download website at <https://software.cisco.com/download/home>.

Upgrade and Downgrade Paths

Cisco MDS NX-OS Release 9.2(1) supports non-disruptive upgrade and downgrade to other Cisco MDS NX-OS Releases. For upgrade and downgrade paths, and guidelines that are recommended for upgrading or downgrading Cisco MDS NX-OS software images, see [Cisco MDS 9000 NX-OS Software Upgrade and Downgrade Guide, Release 9.x](#).

Note: If you have the SAN analytics feature enabled, ensure that you disable the SAN analytics feature using the **no feature analytics** command before upgrading. For detailed instructions, see *Preventing SAN Analytics Corruption during ISSU* section in the [Cisco MDS 9000 NX-OS Software Upgrade and Downgrade Guide, Release 9.x](#).

Choosing Between Cisco MDS NX-OS Open Systems Releases

Cisco uses release numbering to indicate the maturity of a Cisco MDS NX-OS release train. Cisco MDS NX-OS major versions are incremented when significant software features or hardware support are added. Because of the focus on new features and hardware, all defects may not yet have been fixed. After an initial release, minor version numbers of the train are incremented, and only security patches and defect fixes are added, providing better stability to the new features and updated security.

For information about other releases, refer to the Release Notes on the [Cisco MDS 9000 NX-OS and SAN-OS Software](#) documentation page. For Cisco recommended MDS NX-OS releases for each type of hardware, see [Recommended Releases for Cisco MDS 9000 Series Switches](#).

Components Supported

For information on supported software and hardware components, see [Cisco MDS 9000 Series Compatibility Matrix](#).

IBM FICON Qualification Status

Cisco MDS NX-OS Release 9.2(1) is not IBM FICON qualified.

Cisco TrustSec FC Link Encryption

For more information about which set of interfaces on each module support FC-SP, see the [Configuring Cisco TrustSec Fibre Channel Link Encryption](#) chapter of the *Cisco MDS 9000 Series Security Configuration Guide, Release 9.x*.

New Hardware Features

Cisco MDS 48 Port 64 Gbps Fibre Channel Switching Module

The Cisco MDS 48-Port 64-Gbps Fibre Channel Switching Module (DS-X9748-3072K9) is supported on Cisco MDS 9700 Series Multilayer Directors. This module delivers predictable performance, scalability, and innovative features to support private and virtualized data centers.

For more information about this module, see *Product Overview* chapter in [Cisco MDS 9700 Series Hardware Installation Guide](#).

New Software Features

Secure Syslog

The ability to log syslogs securely to a remote syslog server was added. This feature allows you to securely log system messages to a configured remote logging server using TLS. The **trustpoint client-identity** option was added to the **logging server** command.

For more information, see [Cisco MDS 9000 Series System Management Configuration Guide, Release 9.x](#).

VMID Analytics

The allocation of the VMIS field in the CS_CTL FC header field has changed. The range 1 - 15 is reserved for ER_RDY use and 16 - 255 for VMID use.

The **vmis range range vsan id** command was modified.

For more information, see [Cisco MDS 9000 Series Fabric Configuration Guide, Release 9.x](#).

Standby Supervisor mgmt0 Status

The ability to check the standby supervisor mgmt0 interface was added. A warning message and syslog are generated to alert the user if the standby supervisor Ethernet management port is disconnected or down before performing an In-Service Software Upgrade (ISSU) or system switchover.

The **show interface mgmt number standby** command was also introduced to display the status of the standby supervisor mgmt0 interface.

Upgrading (ISSU) or downgrading (ISSD) from Cisco MDS NX-OS Release 9.2(1) or later releases will also check the status of the standby supervisor mgmt0 interface. If the interface is not up, a message will be printed in the same group of messages that indicate if the upgrade or downgrade will be hitless or not.

The **system switchover** command has been enhanced to not allow a switchover to the standby supervisor and displays a message when the standby supervisor mgmt0 interface is not up. To bypass this check, the **bypass-standby-mgmt0** parameter was added to the **system switchover** command.

For more information, see [Cisco MDS 9000 Series High Availability Configuration Guide, Release 9.x](#).

Secure Remote System Message Logging

The ability to log syslogs securely to a remote syslog server was added. This feature allows you to securely log system messages to a configured remote logging server using TLS. The **secure** and **trustpoint client-identity** options were added to the **logging server** command.

For more information, see [Cisco MDS 9000 Series System Management Configuration Guide, Release 9.x](#).

MIB Support for Standby Supervisor mgmt0 Status for Device Manager

The *CISCO-ENTITY-DISPLAY-MIB* is updated to add support for standby supervisor mgmt0 status. For downloading MIBs, see <ftp://ftp.cisco.com/pub/mibs/>.

On-board Failure Logging

The log size for TXWait counter in OBFL was changed from 512 KB to 8 MB. After upgrading or downgrading from Cisco MDS NX-OS Release 9.2(1) or later releases, the TxWait OBFL will need to be cleared manually via the **clear logging onboard txwait** command.

For more information, see [Cisco MDS 9000 Series Interfaces Configuration Guide, Release 9.x](#).

Fabric Notifications

The Fabric Notification – FPIN and Congestion Signal feature is out of the preview (beta) status and can be used in the production environment.

For more information, see *Congestion Management* chapter in [Cisco MDS 9000 Series Interfaces Configuration Guide, Release 9.x](#).

Unsupported Features

Data Mobility Manager

From Cisco MDS NX-OS Release 8.1(1), the Cisco MDS Data Mobility Manager is not supported on Cisco MDS 9000 Series Switches.

Zoning Features

LUN zoning, read-only zones, and broadcast zones are no longer supported.

If these features are already configured, completely remove all the configurations that include these features before attempting to bring up these modules. In addition, you cannot configure these features after you bring up these modules.

XRC Acceleration License

From Cisco MDS NX-OS Release 8.1(1a), the Cisco Extended Remote Copy (XRC) acceleration license is obsoleted on Cisco MDS 9000 Series Switches due to improvements in the mainframe XRC feature.

Virtual Router Redundancy Protocol (VRRP)

From Cisco MDS NX-OS Release 8.3(1) and later, the VRRP feature is not supported on Cisco MDS 9000 Series Switches.

Data Encryption Standard (DES) Encryption for SNMP

From Cisco MDS NX-OS Release 8.5(1), AES-128 is the default encryption mechanism for SNMPv3. DES encryption for SNMP is supported only for DES users who upgrade from previous releases to Cisco MDS NX-OS Release 8.5(1). Ensure that you delete all the SNMPv3 users configured with DES encryption before

upgrading to Cisco MDS NX-OS Release 8.5(1) and later releases. Any downgrades from Cisco MDS NX-OS Release 8.5(1) will be restricted if any of the SNMPv3 users have DES encryption configured as the privacy protocol. All such users will either need to be deleted or reconfigured to use no privacy protocol or AES128 encryption before downgrading.

For more information, see [Cisco MDS 9000 Series System Management Configuration Guide, Release 9.x](#).

Limitations and Restrictions

SAN Extension Tuner

San Extension Tuner (SET) is not supported on Cisco MDS 9220i switches in Cisco MDS NX-OS Release 9.2(1).

Fibre Channel Read Diagnostic Parameters

Fibre Channel RDP querying is not supported on NP, Port Channel, or FCoE links.

Slow Drain Detection and Congestion Isolation Enhancements

ER_RDY is not supported on FC interfaces running at 10 Gbps.

DURL and FPIN

DURL and FPIN are not supported on switches that are operating in the Cisco NPV mode.

FPIN Notifications

FPIN Notification for oversubscription-based congestion is not supported.

FCIP Support

- In Cisco MDS NX-OS Release 9.2(1) or later releases, FCIP Write Acceleration is not supported between 24/10 San Extension Module and Cisco 18+4 MSM module and between 24/10 San Extension Module and Cisco SSN16 module.
- In Cisco MDS NX-OS Release 9.2(1) or later releases, FCIP Write Acceleration along with IVR is not supported on FCIP tunnels configured on Cisco MDS 9700 Series switches.
- FCIP tunnels using Cisco MDS 24/10 Port SAN Extension Module cannot be used across FSPF equal cost paths.
- On Cisco MDS 9220i switches, the maximum throughput on a single FCIP tunnel is 7 Gbps. On the 40 Gbps IPS port, the maximum throughput is 28.5 Gbps when 4 FCIP tunnels are created on separate 802.1q VLAN interfaces.
- On Cisco MDS 24/10 Port SAN Extension Module, configuring multiple ECMP port channels with FCIP members in the same VSAN is not a valid configuration. If this is configured, then the traffic will flow through only one of the port channels.

iSCSI Support

iSCSI is not supported on Cisco MDS 9700 Directors with Cisco MDS 24/10 port SAN Extension Modules and Cisco MDS 9220i Fabric Switch.

HVDC PSU Support

The Cisco MDS 9700 HVDC PSU (DS-CHV-3.5KW) is not supported in Cisco MDS NX-OS Releases 8.1(1) and 8.1(1a). Do not attempt to load these releases on devices equipped with these PSUs or the systems will fail to power up.

Resolved Issues

Bug ID	Description	Known Impacted Releases
CSCvg20988	ISSU/system switchover to check the viability of the standby sup's mgmt0 connection.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvj20982	Enhancement to add TxWait and Transitions to Zero functionality to ER_RDY ISLs.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvk36805	F32_TMM_PORT_FRAME_DROP, F16_TMM_PORT_FRM_DROP_CNT not logged in OBFL.	8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvk41398	Memory leak in 16 Gbps driver causes director module or fabric switch reload.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvo75187	'Link failure Link Reset failed nonempty recv queue' during ISSU to 8.3(2).	8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)

Bug ID	Description	Known Impacted Releases
CSCvr82522	Increase capacity of show logging onboard txwait buffer.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs02855	Need command to display standby supervisor mgmt0 interface status.	8.5(1) 8.4(2), 8.4(2a), 8.4(2b)
CSCvs34401	Port-monitor generates txwait random falling-threshold alerts with constant R-RDY delay.	8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2)
CSCvs86312	MDS 9396S switch reboots with f16_mac_usd or f16_que_usd crash.	8.4(2)
CSCvu69869	Configuring " vpc role preempt" will cause vPCs with port-type network to go into BKN state.	8.5(1) 8.4(2), 8.4(2a), 8.4(2b)
CSCvv42842	Need to include cctrl error logs in 'show tech detail' and 'show tech module'.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvv93277	Interface CRCs not incrementing on MDS 32G modules/switches.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvv93541	F32_MAC_KLM_CNTR_RX_FEC_UNCORRECTED_BLOCKS not being recorded in OBFL error-stats counter-stats.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvv67941	User is prompted to validate SSH server key again after switchover.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1a), 8.1(1b)

Bug ID	Description	Known Impacted Releases
CSCvw75655	MDS 9710 FCNS GA_NXT reply missing zoned members.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(2)
CSCvx06226	DIRL events (logs) from previous active not visible after switchover.	8.5(1)
CSCvx11676	Congested device pWWN does not get removed from database after changing its logical type.	8.5(1)
CSCvx19452	MDS DS-X9648-1536K9 ports moved to notConnected state after many port flaps.	8.5(1)
CSCvx20461	PMON disable not removing the ports under quarantine.	8.5(1)
CSCvx22763	No SSH or telnet login prompt after upgrade to 8.4.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvx37367	MDS9220I - IPS 40G port beacon function, port LED blinking as amber instead of green color.	8.5(1)
CSCvx37747	MDS supervisor reloads due to usb-storage timeout.	8.5(1) 8.4(1a)
CSCvx43070	MDS 9396S reloads due to Fatal Module Error, Service: System Manager when f16_mac_usd crashes.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvx45711	9220i: FCIP-ECMP PC traffic is not flowing after bringing down one PC with "no use-profile" .	8.5(1)
CSCvx47078	Port 0 Port mode not valid errors floods under fcmac event-history.	8.5(1)
CSCvx47195	Device Manager (DM) doesn't support IBM 8977-R16.	8.5(1)
CSCvx49403	Port-Channel with Cisco switch OUI 0xDC774C does not come up or trunk.	8.5(1) 8.4(2b)
CSCvx50421	RSCN sent to device that is not part of IVR zone update.	8.5(1) 8.4(2b)

Bug ID	Description	Known Impacted Releases
CSCvx52194	MDS 9396T, 9148T reloads during ISSU or internal switching errors or some ports fail loop back tests.	8.5(1) 8.4(2b)
CSCvx53098	16G FICON port going into bad state and loosing path with FEC enabled on 32G module.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1b)
CSCvx55525	ISSU upgrade from 8.2.2 to 8.4.1a resulted in a switch 9250i reboot (fcns crash).	8.5(1) 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvx56588	'copy scp:' doesn't work on MDS switches from kickstart prompt.	8.5(1)
CSCvx62467	DS-X9448-768K9 ports should be put in hwfailure status after logging parity errors.	8.4(2), 8.4(2a), 8.4(2b)
CSCvx67356	Post ISSU/reload Service "snmpd" (PID xxxx) hasn't caught signal 11 (core will be saved).	8.4(2a), 8.4(2b)
CSCvx69774	No longer able to log in with passwordless SSH after upgrade to NX-OS 8.5(1).	8.5(1)
CSCvx76468	Reloading switch for a remote authenticated via LDAP causes CLI error.	8.5(1) 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvx86830	"port-security" crash on MDS 9500.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(2), 8.3(1) 8.2(2), 8.2(1) 8.1(1), 8.1(1a), 8.1(1b)
CSCvx97022	'ishow core backtrace': not working with valid pid + unable to SCP core files after invalid pid.	8.5(1) 8.4(2), 8.4(2a), 8.4(2b)
CSCvx97700	SSH service does not dump core file when it crashes.	8.5(1)
CSCvy01176	%PORT-5-IF_DOWN_HW_FAILURE: %\$VSAN 100%\$ Interface fcx/y is down (Hardware Failure).	8.5(1)
CSCvy01192	Remove most FIB and RIB info from show tech slowdrain in NX-OS 8.5(1).	8.5(1)
CSCvy01878	FCIP throughput for some routes through MDS9700 24/10 FCIP module reduced after replacing the module.	8.5(1) 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)

Bug ID	Description	Known Impacted Releases
CSCvy03206	SYSMGR-2-SERVICE_CRASHED: Service "snmpd" .	8.5(1) 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvy07442	port-monitor tx-datarate-burst entries with rate values greater than 100%.	8.5(1)
CSCvy13812	MDS zoneset activate fails: Device-alias enhanced zone member unsupported in device-alias basic mode.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(2), 8.3(1) 8.2(2), 8.2(1) 8.1(1), 8.1(1a), 8.1(1b)
CSCvy16321	FCNS crash caused by IPFC.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvy17223	Debugging for 'the output may not have all the roles' warning nonfunctional.	8.5(1) 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvy22928	MDS 8.5(1) snmp-server user priv password not updated when same username password is changed.	8.5(1)
CSCvy23094	Unable to ISSD from NX-OS 8.5(1) with 'snmp-server user' with 'des' parameter in running-config.	8.5(1)
CSCvy26841	Port Channel output discards after single member link failure with in-order-guarantee configured.	8.5(1) 8.4(2a), 8.4(2b)
CSCvy27979	Copy/auto-copy for Kernel core doesn't work unless "show cores" is executed.	8.4(2c)
CSCvy35652	BA_ACC sent by remote FCIP-peer MDS may not set 'end sequence' to 1.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(2)
CSCvy43400	XBAR initialization failure message indicates 'not enough memory' when PCIe bus failure.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(2), 8.3(1) 8.2(2), 8.2(1) 8.1(1), 8.1(1a), 8.1(1b)

Bug ID	Description	Known Impacted Releases
CSCvy48254	show ips internal eth-trace-all prints duplicate info for each ips port.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(2), 8.3(1) 8.2(2), 8.2(1) 8.1(1), 8.1(1a), 8.1(1b)
CSCvy59564	Zone service crashed with signal 6 on MDS 9148S.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2)
CSCvy59725	IPS port of MDS 9220i link is up without cable.	8.5(1)
CSCvy62135	snmp-server host port automatically changes.	8.5(1) 8.4(2), 8.4(2a), 8.4(2b)
CSCvy65685	Tx/Rx datarate-burst rising/falling syslog messages when datarate-burst is not active.	8.5(1)
CSCvy69011	PMON False Alarms reported for a "core type " port-channel, but PMON configured only for Edge ports.	8.5(1) 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvy72687	FSPF "Error in processing interface timer event" msg and switch becomes isolated from fabric.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(2), 8.3(1)
CSCvy79464	"show system internal rib up-unicast" table shows stale and junk entries when ExitIntf is changed.	8.5(1)
CSCvy81672	'show system internal fcoe_mgr info global' defaults to detailed output.	8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(2), 8.3(1) 8.2(2), 8.2(1) 8.1(1), 8.1(1a), 8.1(1b)
CSCvy88216	Parity error in TCAM may lead to traffic disruption.	8.5(1) 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvy90825	MDS 9220i : FIB crash seen during ISSU from 8.5 to 9.x.	8.5(1)
CSCvy94178	vshd hap reset.	8.5(1) 8.4(2a), 8.4(2b)

Bug ID	Description	Known Impacted Releases
CSCvy98450	"show system internal rib up-unicast" not getting updated for ISL churn after rib process kill.	8.5(1)
CSCvz32361	SNMP crash seen during ISSD.	8.5(1)

Open Issues

Bug ID	Description	Known Impacted Releases
CSCuv76123	fcdomain for VSAN hung in "Principal Switch Selection ongoing" .	9.2(1) 8.x 7.x 6.x
CSCvf08416	M9132T, M9396S MDS9148T: pam_ftp(ftp:auth): conversation failed syslog is displayed in the show tech details.	9.2(1) 8.5(1) 8.4(1), 8.4(2), 8.4(2a), 8.4(2b) 8.3(2), 8.3(1) 8.2(2), 8.2(1)
CSCvj93031	"show system login failures" does not display IPv6 addresses.	9.2(1) 8.5(1) 8.4(1), 8.4(2), 8.4(2a), 8.4(2b) 8.3(2), 8.3(1)
CSCvo13212	Running snmpwalk IPv6 displays error Received source port is zero" .	9.2(1) 8.5(1) 8.4(1), 8.4(2), 8.4(2a), 8.4(2b)
CSCvo22835	While moving IOA flow between 2 clusters, all flows are briefly suspended.	9.2(1) 8.5(1) 8.4(1), 8.4(2), 8.4(2a), 8.4(2b) 8.3(2), 8.3(1) 8.2(2), 8.2(1) 8.1(1), 8.1(1a), 8.1(1b)

Bug ID	Description	Known Impacted Releases
CSCvp48050	MDS 9700 Control Plane Packet drop seen when switch comes up.	9.2(1) 8.5(1) 8.4(1), 8.4(2), 8.4(2a), 8.4(2b)
CSCvp70681	SAN telemetry: Receiver stays in "idle", no streaming to one receiver, and single threaded telemetry.	9.2(1) 8.5(1) 8.4(1), 8.4(2), 8.4(2a), 8.4(2b)
CSCvs15569	IKE negotiation fails when configured with authentication type to rsa-signature.	9.2(1) 8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs23106	SCSI target discovery running even after removal of last DS-X9334-K9 module from switch.	9.2(1) 8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs83114	aclqos crashed when Cisco MDS 24/10-Port SAN Extension Module with FCIP config removed out and inserted.	9.2(1) 8.5(1) 8.4(1), 8.4(1a), 8.4(2)
CSCvt15096	MDS 9250i/MDS 9148s port goes to not-connected state after cable pull.	9.2(1) 8.5(1) 8.4(2b)
CSCvt15761	Non-disruptive reload cmd is causing reinitializing of the error disabled ports on other line cards.	9.2(1) 8.5(1) 8.4(2), 8.4(2a), 8.4(2b)

Bug ID	Description	Known Impacted Releases
CSCvt22913	FCIP Links flaps with IOA traffic while adding few more links.	9.2(1) 8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2)
CSCvt64521	IPSec enabled FCIP tunnels don't come up after switch or module reload if tunnels are more than 18.	9.2(1) 8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt70406	Certificate for Device Manager HTTPS download from switch is self signed.	9.2(1) 8.5(1) 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvw00538	Remove misleading merge failed message for ficonstat in non-FICON VSAN.	9.2(1) 8.5(1) 8.4(2b)
CSCvw27832	MDS:Kernel panic on DS-X97-SF4-K9 model supervisor.	9.2(1) 8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvw98829	97xx Chassis information missing and logging error message %PLATFORM-2-PS_UNSUPPORTED.	9.2(1) 8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvw99177	MDS 9220i/DS-X9748-3072K9: Stack trace not logging to obfl after kernel panic hit.	9.2(1) 8.5(1)
CSCvw03816	Port Speed detected as 8G when connecting 16G Brocade AG to MDS 9250i/9148s switches.	9.2(1) 8.5(1) 8.4(2a), 8.4(2b)

Bug ID	Description	Known Impacted Releases
CSCvw35209	MDS9132T: EXT3-fs error seen continuously post copy r s and reload.	9.2(1) 8.5(1)
CSCvw64733	M9220i- 40G CSR4 and LR40G optics link length and nominal bitrate values are incorrect.	9.2(1) 8.5(1)
CSCvw91665	MDS crashes with "Anon_Resident_Mem 0 KB being killed due to lack of memory"	9.2(1), 9.2(2) 8.4(2), 8.4(2a), 8.4(2b)
CSCvw91963	M9220i: IPS interface stuck in license not available state after MTU change to 1500bytes.	9.2(1) 8.5(1)
CSCvx24216	MDS 9718 with Supervisor1 panics with 'general protection fault'.	9.2(1) 8.5(1) 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvx31119	Supervisors crashed within secs one after other with warning Service: port hap reset.	9.2(1) 8.5(1) 8.4(1a)
CSCvx37657	Need to log nonvolatile logs about BIOS programming errors.	9.2(1) 8.5(1) 8.3(2)
CSCvx47587	"Some klm entries are missing" logs when collecting tech-support in M9710.	9.2(1) 8.5(1)
CSCvy28230	Add 'show fib internal logs' from each module to 'show tech-support details'.	9.2(1) 8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvy30360	Interop: QLE2742 with ESX port take around 2 mins to come up after shut/no shut at 32G/auto speed.	9.2(1)
CSCvy72945	FCIP engine crash during async replication with Huawei storage.	9.2(1) 8.5(1)
CSCvy79918	Port beaconing is not turning off when external loopback is removed between two FC ports.	9.2(1)
CSCvy91504	GOLD portLoopback test failing on FCSP enabled ports.	9.2(1)

Bug ID	Description	Known Impacted Releases
CSCvy92200	Interop - ATTO HBA connected to DS-X9648-3072K9 goes into offline with traffic during cable pull.	9.2(1)
CSCvy95168	VMIS default range(16-255) changes to (1-255) after ISSD from 9.2(1) to 851.	9.2(1)
CSCvz05041	LIOD : End to End drops are seen due to SSE delay between fib and queuing driver.	9.2(1)
CSCvz06987	M9220i - switchport beacon disable, turning off link LED to off state.	9.2(1)
CSCvz08698	QSFP-40G-SR4 beacons test fails.	9.2(1)
CSCvz09012	End device ports go errored or not responding after Fabric switch ISSU.	9.2(1) 8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvz10558	RIB process die during booting up of module DS-X9648-1536K9.	9.2(1) 8.5(1) 8.4(2a), 8.4(2b)
CSCvz12727	MDS ISSU fails, Detected Stalls on CPUs.	9.2(1) 8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvz16644	'system auto-collect tech-support' missing from cfg, command completion/inline help not working.	9.2(1) 8.5(1) 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvz23127	Interop: IBM XIV Gen3 - DS-X9648-3072K9 link up time is long for speed test and shut/no shut.	9.2(1)
CSCvz26393	IPStorage interface input error counters not incrementing.	9.2(1) 8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b)
CSCvz27021	New device continues to receive FPIN even after slow device recovery.	9.2(1)
CSCvz29938	Some interfaces of 32G FC Module DS-X9648-1536K9 cannot be configured for analytics.	9.2(1) 8.5(1) 8.4(2a), 8.4(2b)

Bug ID	Description	Known Impacted Releases
CSCvz37953	MDS 9710 switch does not allow /31 mask in IPS storage interface.	9.2(1) 8.5(1) 8.4(1), 8.4(1a), 8.4(2), 8.4(2a), 8.4(2b) 8.3(1), 8.3(2)
CSCvz43407	FPM DURL devices does not recover after switchover.	9.2(1)
CSCvz65820	VIC sending ABTS due to wrong MAC seen in the PLOGI ACC frame.	9.2(1)
CSCwa86129	Inserting 64G Line Card into chassis with Sup-1(DS-X97-SF1-K9) causes switch to continuously reboot	9.2(1)
CSCwb07996	port-monitor not triggering on err-pkt-to-xbar and err-pkt-from-xbar on NX-OS 8.5(1) and later.	9.2(1) 8.5(1)
CSCwb14523	Service " zone" (PID XXXX) hasn't caught signal 6 (core will be saved).	9.2(1), 9.2(2) 8.4(2), 8.4(2a), 8.4(2b), 8.4(2c), 8.4(2d)
CSCwb48133	MDS 9250i Interface IPStorage1/2 is transmitting with IPStorage1/1's MAC address	9.2(1), 9.2(1a), 9.2(2) 8.5(1)
CSCwd00610	MDS switch slow or unresponsive after reset of multiple interfaces	9.2(1) 8.5(1) 8.1(1)
CSCwe08911	Sending clear FPIN to end device, immediately after congestion clear	9.2(1) 8.5(1)
CSCwn10124	Device unable to log into fabric due to maximum FLOGIs already on the port	9.2(1) 8.5(1), 8.4(1), 8.3(1), 8.2(1), 8.1(1)
CSCwo03706	An FC interface will not come up / switch to soft zoning	9.2(1) 8.5(1)

Related Documentation

The documentation set for the Cisco MDS 9000 Series includes the documents listed in this section. To find a document online, access the following URL:

http://www.cisco.com/en/US/products/ps5989/tsd_products_support_series_home.html

The documentation set for Cisco Nexus Dashboard Fabric Controller is available from the following URL:

http://www.cisco.com/en/US/products/ps9369/tsd_products_support_series_home.html

Release Notes

<http://www.cisco.com/c/en/us/support/storage-networking/mds-9000-nx-os-san-os-software/products-release-notes-list.html>

Licensing Information

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/8_x/config/licensing/cisco_mds9000_licensing_guide_8x.html

Regulatory Compliance and Safety Information

<http://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/hw/regulatory/compliance/RCSI.html>

Compatibility Information

<http://www.cisco.com/c/en/us/support/storage-networking/mds-9000-nx-os-san-os-software/products-device-support-tables-list.html>

Installation and Upgrade

<http://www.cisco.com/c/en/us/support/storage-networking/mds-9000-nx-os-san-os-software/products-installation-guides-list.html>

Configuration Guides

<http://www.cisco.com/c/en/us/support/storage-networking/mds-9000-nx-os-san-os-software/products-installation-and-configuration-guides-list.html>

Command-Line Interface

<http://www.cisco.com/c/en/us/support/storage-networking/mds-9000-nx-os-san-os-software/products-command-reference-list.html>

Troubleshooting and Reference

<http://www.cisco.com/c/en/us/support/storage-networking/mds-9000-nx-os-san-os-software/tsd-products-support-troubleshoot-and-alerts.html>

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