Release Notes for Cisco MDS 9000 Series

Release 8.4(2)

This document describes the features, caveats, and limitations for the Cisco MDS NX-OS software for the use on the Cisco MDS 9000 Series Switches. Use this document in combination with documents listed in the

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 caveats. Refer to the following website for the most recent version of the Cisco MDS 9000 Series Release Notes.

Date	Description
April 04, 2023	Added CSCvw32460 caveat in the open Caveats section.
March 23, 2022	Added the CSCwb14523 caveat in the Open Caveats section.
January 14, 2022	Added the CSCvz61883 caveat in the Open Caveats section.
December 15, 2021	Added the CSCuv76123 caveat in the Open Caveats section.
September 20, 2021	Added the CSCvz09012 caveat in the Open Caveats section.
August 26, 2021	Added ISSD guideline for OBFL TxWait.
July 28, 2021	Moved the CSCvt87216 caveat from the Open Caveats section to the Resolved Caveats section.
July 9, 2021	Added the CSCvu52058 caveat in the Open Caveats section. Removed the CSCvo22269 caveat from the Resolved Caveats section.
May 21, 2021	Added Smart Licensing caveat in the General Downgrading Guidelines section.
November 24, 2020	Added the CSCvs87512 caveat in the Resolved Caveats section.
November 5, 2020	Added the CSCvu86801 caveat in the Open Caveats section.
November 2, 2020	Added the CSCvv27832 caveat in the Open Caveats section.
October 22, 2020	Added the CSCvt87216 caveat in the Open Caveats section.
October 19, 2020	Added the reload command changes in the New Software Features and Enhancements in Cisco MDS NX-OS Release 8.4(2), page 7.
October 9, 2020	Removed the CSCvt41379 caveat from the Open Caveats section and added the CSCvv98829 caveat in the Open Caveats section.
September 29, 2020	Added the CSCvt41379 caveat in the Open Caveats section.
September 2, 2020	Added the CSCvv56650 caveat in the Open Caveats section.

Date	Description
August 14, 2020	Moved the CSCvs97168 caveat from the Resolved Caveats to Open Caveats section.
June 29, 2020	Added the CSCvu28005 caveat in the Resolved Caveats section.
May 7, 2020	Updated the New Software Features and Enhancements in Cisco MDS NX-OS Release 8.4(2), page 7 section with the “Consistency Checker” enhancement.
May 5, 2020	Added the CSCvs45930 caveat in the Resolved Caveats section.
May 1, 2020	Updated Release Notes for Cisco MDS NX-OS Release 8.4(2).

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 8.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.

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.

Details about the new features and hardware supported by Cisco MDS NX-OS Release 8.4(2) can be found in the New Hardware and Software Features. 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 the Recommended Releases for Cisco MDS 9000 Series Switches document.

Components Supported

For information on supported software and hardware components, see the Cisco MDS 9000 Series Compatibility Matrix.

FICON

Cisco MDS NX-OS Release 8.4(2) is not IBM FICON qualified.

Upgrading Cisco MDS NX-OS Software Image

This section lists the guidelines recommended for upgrading Cisco MDS NX-OS software image and includes the following topics:

- General Upgrading Guidelines
- Open Systems Nondisruptive Upgrade Paths

For detailed instructions for performing a software upgrade using the switch CLI, see the Cisco MDS 9000 NX-OS Software Upgrade and Downgrade Guide, Release 8.x.

For detailed instructions for performing a software upgrade using Cisco DCNM, see the Cisco DCNM Release Notes.

General Upgrading Guidelines

This section lists the general guidelines for performing a software upgrade:

- Install and configure dual supervisor modules before the upgrade.
- Issue the **show install all impact** *upgrade-image* command to determine if the upgrade will be nondisruptive.
- Some features are impacted whether an upgrade is disruptive or nondisruptive:
  - **Fibre Channel Ports**: Fibre Channel ports can be nondisruptively upgraded without affecting traffic on the ports. See the Open Systems Nondisruptive Upgrade Paths for all MDS NX-OS releases.
  - **IP Storage (IPS) Ports**: Traffic on IPS ports on Cisco MDS 9250i and Cisco MDS 24/10-Port SAN Extension Modules is disrupted during an upgrade or downgrade. Nodes that are members of VSANs traversing an FCIP ISL are impacted, and a fabric reconfiguration may occur. iSCSI initiators connected to the IPS ports lose connectivity to iSCSI targets while the upgrade is in progress.

    Note: In addition to these guidelines, review the information in the Limitations and Restrictions before a software upgrade to determine if a feature may possibly behave differently following the upgrade.
- To upgrade or downgrade to a Cisco MDS NX-OS release version, the same release version of the kickstart and system images in the install all command must be used.
- If you are upgrading Cisco MDS 9700 Series Switches from Cisco MDS NX-OS Release 8.3(1), Release 8.3(2), Release 8.4(1), and Release 8.4(1a) to Release 8.4(2) or later, ensure that you perform a switchover before upgrading. For more information, see CSCvt87216.

Open Systems Nondisruptive Upgrade Paths

The software upgrade information in this section applies only to Fibre Channel switching traffic. Upgrading system software disrupts IP traffic and intelligent services traffic.

Note: If the SAN Analytics feature is enabled, then disable the SAN Analytics feature using the no feature analytics command before upgrading from Cisco MDS NX-OS 8.2(x) or Cisco MDS NX-OS 8.3(x) to Cisco MDS NX-OS Release 8.4(2). However, you can upgrade from Cisco MDS NX-OS Release 8.4(1) and Release 8.4(1a) to Cisco MDS NX-OS Release 8.4(2) without disabling the feature.

Table 1. Nondisruptive Upgrade Paths to Cisco MDS NX-OS Release 8.4(2)

Current Release	Nondisruptive Upgrade Paths and Ordered Upgrade Steps
All 8.x releases	Upgrade directly to MDS NX-OS Release 8.4(2)
All 7.3(x) releases	1. Upgrade directly to MDS NX-OS Release 8.1(1b) 2. Upgrade to MDS NX-OS Release 8.4(2)
6.2(29) and above releases	Upgrade directly to MDS NX-OS Release 8.4(2)
6.2(13a) until 6.2(27)	1. Upgrade directly to MDS NX-OS Release 8.1(1b) 2. Upgrade to MDS NX-OS Release 8.4(2)
All 6.2(x) releases prior to 6.2(13a)	1. Upgrade directly to MDS NX-OS Release 6.2(13a) 2. Upgrade to MDS NX-OS Release 8.1(1b) 3. Upgrade to MDS NX-OS Release 8.4(2)

Downgrading Cisco MDS NX-OS Software Image

This section lists the guidelines recommended for downgrading Cisco MDS NX-OS software image and includes the following topics:

For detailed instructions for performing a software downgrade using the switch CLI, see the *Cisco MDS 9000 NX-OS Software Upgrade and Downgrade Guide, Release 8.x*.

General Downgrading Guidelines

Follow these general guidelines before performing a software downgrade:

- Disable all features that are not supported by the downgrade release. Use the show incompatibility system downgrade- image command to determine the features that needs to be disabled.
- Use the show install all impact downgrade-image command to determine if the downgrade is nondisruptive.
- The following features are impacted during a downgrade, whether it is a nondisruptive downgrade or a disruptive downgrade:
  - Fibre Channel Ports: Fibre Channel ports can be nondisruptively downgraded without affecting traffic on the ports.
  - IPS Ports: Traffic on IPS ports on Cisco MDS 9250i and Cisco MDS 24/10-Port SAN Extension Modules is disrupted during an upgrade or downgrade. Nodes that are members of VSANs traversing an FCIP ISL are impacted, and a fabric reconfiguration may occur. iSCSI initiators connected to the IPS ports lose connectivity to iSCSI targets while the upgrade is in progress.

Find the MDS NX-OS image that you want to downgrade to in the To MDS NX-OS Release column of the Table 3 and follow the steps in the order specified to perform the downgrade.

Note: The software downgrade information in the below tables applies only to Fibre Channel switching traffic. Downgrading system software disrupts IP and intelligent services traffic.

- Any hardware that is not supported by the downgrade release version will be powered down when the downgrade release starts running. Power off and or remove any unsupported components before downgrading. For more information about supported hardware see the *Cisco MDS 9000 Series Compatibility Matrix*.
- If you are downgrading to Cisco MDS NX-OS Release 8.1(x), Release 8.2(x), Release 8.3(x), or Release 8.4(1x) from Release 8.4(2x) and if smart license and VSAN policy for a role are configured, ensure that you disable Smart Licensing or disable VSAN policy for only the role before downgrading or performing a switchover. You can reenable these features after downgrading or performing the switchover. For more information, see CSCvy19014.

Note: If you are downgrading from Cisco MDS NX-OS Release 9.2(1) or later releases to a release prior to Cisco MDS NX-OS Release 9.2(1), ensure that you use the clear logging onboard txwait command after downgrading. Otherwise, logging to the OBFL TxWait file may cease with an error. For more information, see the Cisco MDS 9000 Series Interfaces Configuration Guide, Release 9.x.

ISSD Guidelines for Cisco MDS 9396S Switch

- Downgrading from Cisco MDS NX-OS Release 8.x to Cisco MDS NX-OS Release 7.3(0)D1(1) or Cisco MDS NX-OS Release 6.2(13a) is not supported on a Cisco MDS 9396S Switch which has DS-CAC-1200W as a power supply unit (PSU) and DS-C96S-FAN-I as port side intake fan tray.
- Downgrading from Cisco MDS NX-OS Release 8.x to Cisco MDS NX-OS Release 6.2(13) is not supported on the Cisco MDS 9396S Multilayer Fabric Switch. The minimum recommended image for Cisco MDS 9396S Multilayer Fabric Switch is 6.2(13a).

ISSD Guidelines for Cisco MDS 9250i Switch

- Downgrading from Cisco MDS NX-OS Release 8.x to Cisco MDS NX-OS Release 7.3(0)D1(1), or 6.2(13a) and lower is not supported on a Cisco MDS 9250i Switch which has only one online PSU.
- Downgrading from Cisco MDS NX-OS Release 8.x to Cisco MDS NX-OS Release 7.3(0)D1(1), or 6.2(13a) and lower on a Cisco MDS 9250i Switch with two online PSUs results in loss of N:N grid redundancy. The switch will run in non- redundant mode.
- Downgrading from Cisco MDS NX-OS Release 8.x to Cisco MDS NX-OS Release 7.3(0)D1(1), or 6.2(13a) and lower on a Cisco MDS 9250i Switch with three online PSUs results in loss of N:N grid redundancy. The switch will run in N+1 power redundant mode.

Open Systems Nondisruptive Downgrade Paths

- Downgrading directly from Cisco MDS NX-OS Release 8.1(1) and Release 8.1(1b) to releases before Cisco MDS NX-OS Release 6.2(9) is not supported. In such a scenario, we recommend that you first downgrade to Cisco MDS NX-OS Release 6.2(13a) or higher and then downgrade to the required release.
- Downgrading directly from Cisco MDS NX-OS Release 8.1(1) to Cisco MDS NX-OS Release 7.3(0)DY(1) is not supported. In such a scenario, we recommend that you first downgrade to Cisco MDS NX-OS Release 7.3(0)D1(1) and then upgrade to 7.3(0)DY(1).
- Downgrading directly from Cisco MDS NX-OS Release 8.1(1) to Cisco MDS NX-OS Release 7.3(1)DY(1) is not supported. In such a scenario, we recommend that you first downgrade to Cisco MDS NX-OS Release 7.3(0)D1(1) and then upgrade to 7.3(1)DY(1).

- Downgrading from Cisco MDS NX-OS Release 8.1(1) and Release 8.1(1b) is not supported if the FLOGI Scale Optimization feature is enabled on the Cisco MDS 9718 Switches.

Nondisruptive Downgrade Paths from Cisco MDS NX-OS Release 8.4(2)

Table 2. Nondisruptive Downgrade Paths to Cisco MDS NX-OS Release 8.4(2)

To MDS NX-OS Release	Nondisruptive Downgrade Path and Ordered Downgrade Steps
All 8.x releases	Downgrade to the target release
All 7.3(x) releases	1. Downgrade directly to MDS NX-OS Release 8.1(1b) 2. Downgrade to the target release
6.2(29) and above releases	Downgrade to the target release
6.2(13a) until 6.2(27)	1. Downgrade directly to MDS NX-OS Release 8.1(1b) 2. Downgrade to the target release)
All 6.2(x) releases prior to 6.2(13a)	1. Downgrade directly to MDS NX-OS Release 6.2(13a) 2. Downgrade to MDS NX-OS Release 8.1(1b) 3. Downgrade to to the target release

New Hardware Features

There are no new hardware features in Cisco MDS NX-OS Release 8.4(2).

New Software Features

The following software features were introduced in Cisco MDS NX-OS Release 8.4(2):

Zoning Single Session Configuration

A new option to allow only a single configuration session at a time on a switch when in enhanced zoning mode is introduced. The following commands were introduced:

- [no] zone mode enhanced vsan id [single-session]
- show zone status vsan id

For more information, see the “Configuring and Managing Zones” chapter in the *Cisco MDS 9000 Series Fabric Configuration Guide, Release 8.x* and the *Cisco MDS 9000 Series Command Reference, Release 8.x*.

32-Gbps ELW Optics Support for Cisco MDS 9700 Series Multilayer Directors and Fabric Switches

Support for the Extended Long Wave DS-SFP-FC32G-ELW SFP in 32 Gbps Director Modules and Fabric Switches is introduced.

For more information, see the *Cisco MDS 9000 Series Compatibility Matrix, Release 8.x and the Cisco MDS 9000 Family Pluggable Transceivers Data Sheet*.

Increased Configuration Limits

The following maximums are increased:

- Support for 4000 FLOGIs per switch on Cisco MDS 9396T switches.
- Support for 8000 FLOGIs on Cisco MDS 9710 switches with Cisco MDS 9700 Series Supervisor-4 Module (DS-X97-SF4- K9).
- Support for 250 members per zone with Smart Zoning on all platforms.

For more information, see the *Cisco MDS NX-OS Configuration Limits, Release 8.x*.

Python 3

Added support for Python 3.7.3. Use the python3 command to check the Python version that is supported on the switch. For more information, see the "Python API" chapter in the Cisco MDS 9000 Series Programmability Guide, Release 8.x.

Enhanced Software Features

The following software features were enhanced in Cisco MDS NX-OS Release 8.4(2):

RTT Statistics per TCP Session

The show interface fcip fcip-id command output was modified to support RTT statistics for each TCP connection.

For more information, see the "Configuring FCIP" chapter in the *Cisco MDS 9000 Series IP Services Configuration Guide, Release 8.x*.

Standby Supervisor's mgmt0 Link

The standby supervisor's management Ethernet link on Cisco MDS Director switches is brought up when the supervisor reaches the standby state.

For more information, see the *Cisco MDS 9000 Series High Availability Configuration Guide, Release 8.x*.

Extended Receiver Ready (ER_RDY)

Added virtual link (VL) information for port-channels in the show interface interface-range counters detailed command output.

For more information, see the *Cisco MDS 9000 Series Command Reference, Release 8.x*.

N Port Identifier Virtualization (NPIV)

The N Port Identifier Virtualization (NPIV) feature is enabled by default. This feature was disabled by default in Cisco MDS NX-OS Release 8.4(1a) and earlier releases.

For more information, see the "Configuring N Port Virtualization" chapter in the *Cisco MDS 9000 Series Interfaces Configuration Guide, Release 8.x*.

Internal CRC Detection and Isolation

Added an option to log internal CRC errors without taking any action.

The log-only keyword was added to the hardware fabric crc [threshold threshold-count] [log-only] command.

For more information, see the *Cisco MDS 9000 Series High Availability Configuration Guide, Release 8.x* and the *Cisco MDS 9000 Series Command Reference, Release 8.x*.

Interface Counters

The show interface [interface-range] counters detailed command output was completely restructured to provide an easier to understand and parse format. This new output affects the NX-API output.

The following new counters were introduced:

- Rx 5 min rate bit/sec
- Tx 5 min rate bit/sec
- Rx 5 min rate bytes/sec
- Tx 5 min rate bytes/sec
- Rx 5 min rate frames/sec
- Tx 5 min rate frames/sec
- Rx B2B credit remaining
- Rx B2B credit remaining for VL 0
- Rx B2B credit remaining for VL 1
- Rx B2B credit remaining for VL 2
- Rx B2B credit remaining for VL 3
- Tx B2B credit remaining
- Tx B2B credit remaining for VL 0
- Tx B2B credit remaining for VL 1
- Tx B2B credit remaining for VL 2
- Tx B2B credit remaining for VL 3
- Tx Low Priority B2B credit remaining
- Last clearing of "show interface" counters

For more information, see the Cisco MDS 9000 Series Interfaces Configuration Guide, Release 8.x and the Cisco MDS 9000 Series Command Reference, Release 8.x.

Consistency Checker

The Consistency Checker feature has been enhanced. Added support for SAN Analytics and SAN Telemetry Streaming, Fibre Channel Name Server (FCNS), and F ports.

reload Command

The reload module module-number non-disruptive and reload system non-disruptive commands are introduced. These commands are used to nondisruptively netboot a module.

For more information, see the Cisco MDS 9000 Series Command Reference, Release 8.x.

Unsupported Features

Data Mobility Manager

Starting 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. These features affect the following hardware:

- Cisco MDS 9250i Multiservice Fabric Switch
- Cisco MDS 9396S Multilayer Fabric Switch
- Cisco MDS 9700 48-port 16-Gbps Fibre Channel Module

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.

Slow Drain Detection and Congestion Isolation Enhancements

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

XRC Acceleration License

Starting 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.

FICON Tape Acceleration

FICON Tape Acceleration (FTA) is not supported on Cisco MDS 24/10 SAN Extension Module in Cisco MDS NX-OS Release 8.1(1a) but it is supported in Cisco MDS NX-OS Release 8.1(1b) and Release 8.4(1a).

FICON on Cisco MDS 48-Port 32-Gbps Fibre Channel Switching Module

FICON is not supported on Cisco MDS 48-Port 32-Gbps Fibre Channel Switching Module in Cisco MDS NX-OS Release 8.1(1a) but it is supported in Cisco MDS NX-OS Release 8.1(1b) and Release 8.4(1a).

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.

Deprecated Hardware

Starting from Cisco MDS NX-OS Release 8.1(1), the following hardware models are not supported:

- Cisco MDS 9513
- Cisco MDS 9509
- Cisco MDS 9506
- Cisco MDS 9500 Series Supervisor-2A Module
- Cisco MDS 24-Port 8-Gbps Fibre Channel Switching Module
- Cisco MDS 48-Port 8-Gbps Fibre Channel Switching Module
- Cisco MDS 32-Port 8-Gbps Advanced Fibre Channel Switching Module
- Cisco MDS 48-Port 8-Gbps Advanced Fibre Channel Switching Module
- Cisco MDS 10 Gbps 8-Port FCoE Module
- Cisco MDS 16-Port Storage Services Node (SSN-16)

- Cisco MDS 18/4-Port Multiservice Module (MSM)

Limitations and Restrictions

Fibre Channel Read Diagnostic Parameters

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

FCIP Support

- In Cisco MDS NX-OS Release 8.x, FCIP Write Acceleration is not supported between 24/10 San Extension Module and Cisco 18+4 MSM and Cisco SSN16 Modules.
- In Cisco MDS NX-OS Release 8.x, 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 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.

40GE IP Storage (IPS) Interfaces Support on Cisco MDS 24/10-Port SAN Extension Module

40GE IP storage interfaces are not supported.

iSCSI Support

iSCSI is not supported on Cisco MDS 9700 Directors with Cisco MDS 24/10 port SAN Extension Modules.

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.

Cisco TrustSec FC Link Encryption

Cisco TrustSec FC Link Encryption support for the following modules is available only on certain ports as mentioned below:

- 48-port 32-Gbps Fibre Channel Switching Module (DS-X9648-1536K9)—Support for Cisco TrustSec FC Link Encryption is available only on ports 9–12, 25–28, and 41–44.
- Cisco MDS 9132T Fibre Channel Switch—Support for Cisco TrustSec FC Link Encryption is available only on ports 9– 12, 25–28.
- Cisco MDS 9148T Fibre Channel Switch—Support for Cisco TrustSec FC Link Encryption is available only on ports 9– 12, 25–28, and 41–44.
- Cisco MDS 9396T Fibre Channel Switch—Support for Cisco TrustSec FC Link Encryption is available only on 9–12, 25– 28, 41–44 base ports, and 57–60, 73–76, and 89–92 ports as applicable.

Caveats

Subscribing for Important Product Update Notifications

Cisco provides a subscription service to notify of important events related to the Cisco MDS software and hardware for the following categories:

- Cisco Security Advisories
- Field Notices
- End-of-Sale, End-of-Life, and End-of-Support Announcements
- Software Updates [New, Certified, Software Advisories, Deferred, Obsoleted]
- Updates to Known Bugs

We recommend that you at least subscribe to the Field Notices, Security Advisories, and Software Updates [New, Certified, Software Advisories, Deferred, Obsoleted] categories, if not all categories, so that you can receive notifications about any critical product issues.

To subscribe to a category for receiving notifications of important updates:

1. Go to https://cway.cisco.com/mynotifications, and log in to your account.
2. Click Create Subscription.
3. Follow the onscreen instructions.

Note: You must renew your notification subscriptions annually.

Resolved Caveats in Cisco MDS NX-OS Release 8.4(2)

Table 3. Resolved Caveats in the Cisco MDS NX-OS Release 8.4(2)

Caveat ID	Description	Known Impacted 8.x Releases
CSCug17325	Syslog timestamp incorrect during M9500 Gen4 module upgrade.	8.4(1) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCur10170	Enable mgmt0 link on standby supervisor.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCuz93193	show logging onboard starttime with endtime doesn't work properly.	8.4(1) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvc43884	Switch crash due to acl hap reset.	8.4(1), 8.4(1a) 8.3(1), 8.3(2)

Caveat ID	Description	Known Impacted 8.x Releases
		8.1(1), 8.1(1a), 8.1(1b)
CSCvc75645	License manager crash possibly triggers switch reload.	8.1(1), 8.1(1a), 8.1(1b)
CSCvc89231	SAN EXT 24/10 module: FCIP Processor crash while disabling/enabling IPSec/IKE feature at one end.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvf06705	User logged in to switch with attribute-admin role from DM, is unable to edit/view config.	8.4(1), 8.4(1a)
CSCvi89878	MDS:User scripts should not have access to /var/tmp folder of MDS switch. Need separate partition.	8.4(1) 8.3(1) 8.2(1) 8.1(1)
CSCvj63083	slot x show commands should not be logged in the accounting logs.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvj64981	PC channel 'oper' status is copy of 'admin' state, not real operational state.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvm53190	MDS: Without NTP server configured, show clock displays ntp as time source.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvm07223	Add port config cmds to 'sh tech module'.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)

Caveat ID	Description	Known Impacted 8.x Releases
CSCvn47925	MDS passwords strings should allow question mark in clear text input.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvn60892	Zoneset activation is disruptive for analytics entries.	8.4(1) 8.3(2)
CSCvn63182	ISSU/ISSD/sup switchover may cause traffic impact in IOA flows.	8.4(1) 8.3(2), 8.3(1)
CSCvn95578	sudo message from "show system internal kernel memory global detail".	8.3(2)
CSCvn97463	ShowAnalytics - backspace is not working after listing options on all platforms.	8.4(1)
CSCvo27618	Analytics scale: acl timeouts are observed with scale configs;notconnected/flogi fails/fdisk TO.	8.4(1)
CSCvo43832	MDS 9000 Certificate Signing Request (CSR) doesn't include all Distinguished Name (DN) fields.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvp10372	syslog "CARDCLIENT-3-CARDCL_ERR: cardcl_send_all_case_sse. Error on devid:49" during ISSU/ISSD.	8.4(1) 8.3(2), 8.3(1) 8.2(2), 8.2(1) 8.1(1b), 8.1(1a), 8.1(1)
CSCvq21604	mgmt0 IP address is not displaying properly in Fabric Configuration Server(FCS) database.	8.4(1)
CSCvq23595	NPU hung observed on MDS with feature analytics configured.	8.4(1) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvp45657	M9250i set of ports going to "hwFailure" state when activating dpvm.	8.4(1)
CSCvp46769	Syslog "firmware app: sdwrap: unknown syslog level:10 - fw_app" printed during switchover.	8.4(1)

Caveat ID	Description	Known Impacted 8.x Releases
CSCvp51663	MDS9148S reload triggered by high receive multicast traffic rate on IPFC interface.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvp59888	Module failure trap not sent for specific linecard failure type on MDS9700.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvp74651	'ipfib' process crash after FCIP link flap.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvp81641	Need to log exception for xbar control plane initialisation failure.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvp84168	Unable to overwrite a file but allowed to delete created by a user other than currently logged in.	8.4(1a)
CSCvp86423	DS-X9334-K9 - h/w and s/w tables for span entries not matched after ISSU to 8.4.1.	8.4(1)
CSCvp98224	When registering to Smart Licensing Portal the device name is shown " switch" , and not real name.	8.4(1)
CSCvq01814	Frame drops in the absence of congestion on MDS 9700 platforms.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvq26263	Enhancement to add --alias option to showanalytics --top.	8.4(1a)
CSCvq32090	FCIP ports go into software failure (0x403c0011).	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)

Caveat ID	Description	Known Impacted 8.x Releases
CSCvq35293	Need to remove port status messages from accounting log.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvq39716	An operational PSU shows as 'failed or shutdown' in MDS 9700.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvq38954	Port with a faulty SFP leads to CPU/System busy condition.	8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvq42012	Port which is configured as reflector shouldn't be part of port-channel with production traffic.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvq43615	SFTP transfers still work when sftpServer feature is disabled.	8.4(1), 8.4(1a) 8.3(1)
CSCvq59657	After using iscsi interfaces, IVR forwarding fails for new zones.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvq62156	Include " show interface counters detailed" in show tech-support details.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvq83521	Enable config commands for VNI traps again.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvq90954	Flogi process crash during ISSU/ISSD/switchover.	8.4(1) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)

Caveat ID	Description	Known Impacted 8.x Releases
CSCvq98781	SYSLOG should not be disable during ISSU.	8.4(1), 8.4(1a) 8.3(2)
CSCvr13566	Unexpected system time after switch restart.	8.4(1), 8.4(1a) 8.3(1) 8.2(1) 8.1(1)
CSCvr13661	Callhome server crash due to memory leak.	8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvr20361	False 'low voltage' warnings for operating DS-SFP-FC16G-SW SFP.	8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvr23972	" Bad IPV4 host address" when configuring snmp-server host with last octet of 255.	8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvr25376	Need accurate front panel LED status in CLI for MDS 9132T.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvr29422	fcdomain service crash and switch reload while connecting a device in loop mode.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvr43244	Spurious interrupts on 32G linecard DS-X9648-1536K9.	8.4(1)
CSCvr43451	fcs crashing.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvr47810	" LIBDCDI-2-DCDI_ERR: DATACORRUPTION- DATAINCONSISTENCY" error message in the logging log.	8.4(1a) 8.2(1)
CSCvr51352	lc_port_mgr service randomly killed with signal 6 on MDS 9396S.	8.4(1), 8.4(1a)

Caveat ID	Description	Known Impacted 8.x Releases
		8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvr60193	Add OUI 04:F7:D5 to default OUI list.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvr62271	Header info missing from `show logging onboard internal cardcl` output.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvr62676	DS-X9648-1536K9 - Failure State After switch reload.	8.4(1), 8.4(1a) 8.3(1), 8.3(2)
CSCvr66862	Fix formatting of %ACLTCAM-2-ACL_TCAM_MTS_FAILURE: MTS operation failed: Unknown request %d Received.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvr75237	Syslog messages showing lc/tmp full 100% seen.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvr95974	Inconsistent xbar status in NX-OS command outputs.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs01499	SUP-3 Management port loop back diagnostic test fail.	8.4(1), 8.4(1a)
CSCvs11667	Random bursts of frame timeout drops without egress congestion.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs11802	RSCN is sent to end devices when DS-X9334-K9 card is inserted in 9700 due SCSI target discovery.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2)

Caveat ID	Description	Known Impacted 8.x Releases
CSCvs11898	MAC RED OBFL counter renaming and OBFL table formatting.	8.4(1a)
CSCvs16308	Fix messages when XBAR is disabled due to internal CRC errors.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs16804	MDS streaming out wrong ITN telemetry entry resulting in spikes in DCNM.	8.4(1a)
CSCvs17136	copy http is not working in M9710 SUP-4 and ESRS - call home support needs to be added for SUP-4.	8.4(1), 8.4(1a)
CSCvs19448	Interface and command code information missing from %FCNS-3-BAD_FRAME syslog message.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs21187	MDS : callhome service crashed when switch was trying to send periodic inventory automatically.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs24918	After a module reload, analytics data not captured in E ports in rare situations.	8.4(1), 8.4(1a) 8.3(1), 8.3(2)
CSCvs26693	RNID information is retained in a FICON VSAN.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs26759	ethanlyzer capture write to bootflash fails with displayed-filter option.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs29103	MDS9710: fib crash during IPS card module upgrade having redudant fcip and fcip-pc links.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs45930	After migration from SUP3 to SUP4 error seen while disabling analytics on range of interfaces.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2)

Caveat ID	Description	Known Impacted 8.x Releases
		8.1(1), 8.1(1a), 8.1(1b)
CSCvs57054	Autozone `autozone --show` command can produce a traceback.	8.4(1), 8.4(1a)
CSCvs57660	F16_PLDA_RXBUF_MERR error on a single FC ASIC results in a complete module reload.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs66190	Revert zoneserver message severity level changes made via CSCvn99822.	8.4(1a)
CSCvs73961	PC 'switchport description' is duplicated in configuration after ISSU from 6.2 to 8.2.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs76157	DS-X9648-1536K9 disruptively reloads during ISSU/D.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs76682	Interface " no shutdown" command does not show in the running-config after ISSU 8.4(1).	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs83041	IVR Traffic halts during LC ISSU.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs86408	FCDomain loses switch info for a VSAN during ISSU to 8.4(1).	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs87512	MDS fabric switch with cfs ipv4/ipv6 enabled reloads unexpectedly.	8.4(1), 8.4(1a)
CSCvs90809	FCNS 'connected interface' field missing interface name for type 'Ficon Interface' - NX-OS 8.x.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs96224	Validating NXOS image using wrong command lead to vsh crash.	8.4(1a)

Caveat ID	Description	Known Impacted 8.x Releases
CSCvs97434	LDAP Login failure with AAA DAEMON crash, signal 11 with system switchover.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt01551	Unexpected Zone service restart while zoning via SNMP, may lead to supervisor or switch reload.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt11761	Name server sends full smart zone members list to initiator.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt16705	Peer port WWN info in MDS interfaces that are connecting to FI interfaces.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt28351	Add six OUI's to the default OUI list.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt33750	Duplicate IVR zones warning not being shown.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt39652	LC SAP is not properly decoded.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt62875	Single bit ECC error disabling interfaces with Hardware Failure message.	8.4(1), 8.4(1a) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt80417	show tech-support details on 8.4(1a) missing module fcmac commands.	8.4(1), 8.4(1a) 8.3(1), 8.3(2)

Caveat ID	Description	Known Impacted 8.x Releases
		8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt87216	NX-OS upgrade fails with 0x40930015 or 0x40930081.	8.4(1a)

Open Caveats in Cisco MDS NX-OS Release 8.4(2)

Table 4. Open Caveats in the Cisco MDS NX-OS Release 8.4(2)

Caveat ID	Description	Known Impacted 8.x Releases
CSCuv76123	fcdomain for VSAN hung in “Principal Switch Selection ongoing”.	8.x 7.x 6.x
CSCvf08416	M9132T, M9396S: pam_ftp(ftp:auth): conversation failed syslog is displayed in the show tech details.	8.4(1), 8.4(2) 8.3(2), 8.3(1) 8.2(2), 8.2(1)
CSCvj93031	Show system login failures does not display IPv6 addresses.	8.4(1), 8.4(2) 8.3(2), 8.3(1)
CSCvo22835	While moving IOA flow between 2 clusters, all flows are briefly suspended.	8.4(1), 8.4(2) 8.3(2), 8.3(1) 8.2(2), 8.2(1) 8.1(1b), 8.1(1a), 8.1(1)
CSCvn09455	Syslog reports: TFTPing cores failed (No route to host). without cores present on device.	8.4(1), 8.4(1a), 8.4(2) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvp48050	MDS 9700 Control Plane Packet drop seen during when switch comes up.	8.4(1), 8.4(2)
CSCvp70681	MDS: Receiver stays in "idle"; no streaming to one receiver; single threaded telemetry.	8.4(1), 8.4(2)
CSCvs15569	IKE negotiation fails when configured with authentication type to rsa-signature.	8.4(1), 8.4(1a), 8.4(2) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs23106	IPS_mgr running even after removal of DS-X9334-K9 card.	8.4(1), 8.4(1a), 8.4(2) 8.3(1), 8.3(2)

Caveat ID	Description	Known Impacted 8.x Releases
		8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs97168	Kickstart pre check fails as /var folder is full with nxapi logs.	8.4(1), 8.4(1a), 8.4(2) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvs99211	FLOGI PSS inconsistency seen with DPVM configuration.	8.4(1), 8.4(1a), 8.4(2) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt15761	Non-disruptive reload on one module, trying to bring up error disabled ports which is on other LC.	8.4(2)
CSCvt22913	FCIP Links flaps with ioa traffic while adding few more links.	8.4(1), 8.4(1a), 8.4(2) 8.3(1), 8.3(2) 8.2(1), 8.2(2)
CSCvt36085	Port-channel member goes error disabled during ISSU but still is sent frames which are discarded.	8.4(1), 8.4(1a), 8.4(2) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt41379	97xx Chassis information missing and logging error message %PLATFORM-2-PS_UNSUPPORTED.	8.4(1), 8.4(1a), 8.4(2)
CSCvt64521	IPSec enabled FCIP tunnels don't come up after switch or module reload if tunnels are more than 18.	8.4(1), 8.4(1a), 8.4(2) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt70406	DM https download certificate is self signed.	8.4(2) 8.3(1) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt70421	DM https download certificate valid date exceeds standards.	8.4(2) 8.3(1) 8.1(1), 8.1(1a), 8.1(1b)
CSCvt91294	Switch drops all incoming traffic.	8.4(1), 8.4(1a), 8.4(2) 8.3(1), 8.3(2) 8.2(1), 8.2(2)

Caveat ID	Description	Known Impacted 8.x Releases
		8.1(1), 8.1(1a), 8.1(1b)
CSCvu28005	Timeout drops seen on 32G fabric switches after ISSU.	8.4(1), 8.4(1a), 8.4(2) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
CSCvu52058	ISSU/D is disruptive on MDS fabric switches with error 0x40930073 after SFTP to bootflash.	8.4(1), 8.4(1a), 8.4(2)
CSCvu86801	fc32_mac process is unresponsive while running diagnostic latency test on ISL.	8.4(1), 8.4(1a), 8.4(2)
CSCvv27832	Kernel panic on DS-X97-SF4-K9 model supervisor.	8.4(1), 8.4(1a), 8.4(2)
CSCvv56650	ISSU on MDS 9250i FCoE VFCs causes switchport to stop sending PFC Pauses leading to frame drops.	8.4(1), 8.4(1a), 8.4(2)
CSCvv98829	97xx Chassis information missing and logging error message %PLATFORM-2-PS_UNSUPPORTED.	8.4(1), 8.4(1a), 8.4(2)
CSCvw32460	MDS 9718 Kernel panic due to kernel memory corruption when PC FOP index changes by 512	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)
CSCvz09012	End devices encounter errors or do not respond after MDS Fabric switch ISSU.	8.4(1), 8.4(1a), 8.4(2)
CSCvz61883	Module hangs or resets after 450-460 days uptime due to 'machine check' error.	8.4(1), 8.4(1a), 8.4(2) 8.3(1), 8.3(2) 8.2(1), 8.2(2) 8.1(1), 8.1(1a), 8.1(1b)
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)

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 Prime Data Center Network Manager 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

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.