Cisco DCNM Release Notes, Release 10.4(1)

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Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
http://www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

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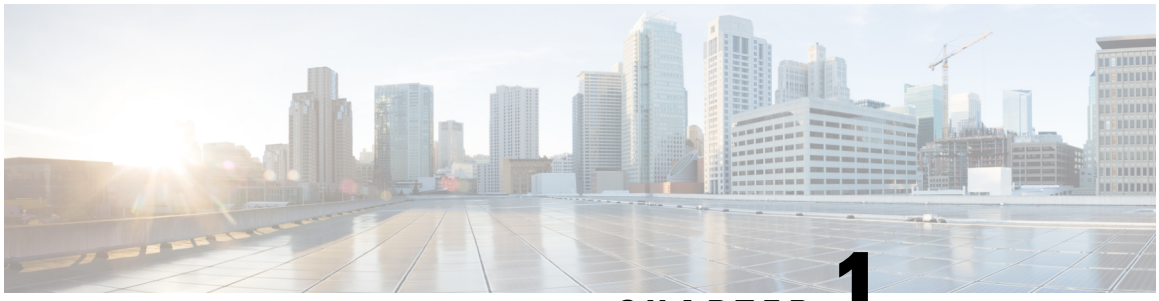


CHAPTER 1

Overview of Cisco DCNM

Cisco Data Center Network Manager unifies and automates Cisco Nexus® and MDS Multi-tenant infrastructure for data center management across Cisco Nexus 3000, 5000, 6000, 7000, and 9000 in NX-OS mode as well as MDS 9100, 9200, 9300, 9500 and 9700 Series Switches. Cisco DCNM lets you manage large scale LAN & SAN fabrics providing read-to-use management and automation capabilities. In addition, Cisco DCNM provides advanced SAN Management and troubleshooting functionality for Cisco MDS and Nexus Series Switches.

For more information, see https://www.cisco.com/c/en/us/products/cloud-systems-management/prime-data-center-network-manager/index.html.

Cisco DCNM, Release 10.4(1) is a unified release for managing SAN, LAN and Programmable Datacenter Fabrics in the Cisco NX-OS driven datacenter environment. To download the Cisco DCNM software, go to https://www.cisco.com/c/en/us/support/cloud-systems-management/prime-data-center-network-manager/tsd-products-support-series-home.html and click **Download Software**.

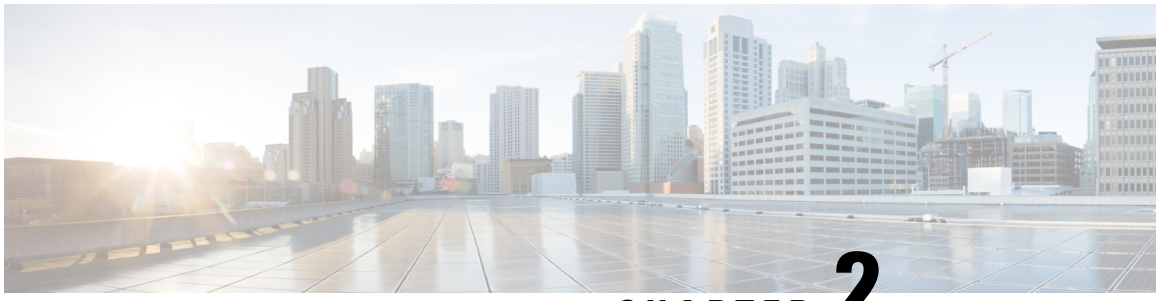
This document provides the Release Notes for Cisco DCNM, Release 10.4(1). Use this document in combination with the documents listed in Related Documentation, on page 27.

Note Release Notes are sometimes updated with new information about restrictions and caveats. To view the most recent version of the Cisco DCNM Release Notes document, see: http://www.cisco.com/c/en/us/support/cloud-systems-management/prime-data-center-network-manager/products-release-notes-list.html.

The following table shows the change history for this document.

Table 1: Change History

Date	Description
October 2017	Published Release Notes for Cisco DCNM Release 10.4(1)



CHAPTER 2

System Requirements

This chapter lists the tested and supported hardware and software specifications for Cisco Prime Data Center Network Management (DCNM) server and client architecture. The application has been tested in English locales only. This chapter contains the following section:

System Requirements for Cisco DCNM, Release 10.4(1)

Java Requirements

The Cisco DCNM Server is distributed with into the following directory:

```
DCNM_root_directory/java/jre1.8
```

Server Requirements

Cisco DCNM Release 10.4(1) supports the Cisco DCNM Server on these 64-bit operating systems:

- Microsoft Windows 2008 R2 SP1
- Microsoft Windows 2008 Standalone SP2
- Microsoft Windows 2012 R2
- Red Hat Enterprise Linux Release 6.6 and 7.0
- OVA and ISO with integrated operating system

Cisco DCNM Release 10.4(1) supports the following databases:

- Oracle11g Express (XE), Standard, and Enterprise Editions, and Oracle 11g Real Application Clusters (RAC)
- PostgreSQL 9.4.5
- Oracle 12c Enterprise Edition (Conventional)–(nonpluggable installation)

Note Cisco DCNM Release 10.4(1) does not support Oracle 12c pluggable database version installation.

- Oracle 12c RAC (nonpluggable installation)

Note The Cisco DCNM database size is not limited, and increases according to the number of nodes and ports that the DCNM manages with Performance Manager Collections enabled. You cannot restrict the database size. If you choose Oracle database, we recommend that you use Oracle SE or Enterprise edition, instead of Oracle XE due to table space limitations.

Note Customers are responsible for all the support associated with the Oracle databases, including maintenance, troubleshooting, and recovery. We recommend that customers perform regular database backups, either daily or weekly, to ensure that all the data is preserved.

Cisco DCNM Release 10.4(1) supports ISO installation onto bare-metal server [no hypervisor] on the following server platform:

- Cisco UCS C240M4 12G / 100G 4-CPU Cores with Cisco hardware RAID Controller [UCSC-MRAID12G-1GB/2GB] for RAID operation.

Cisco DCNM Release 10.4(1) supports the running of the Cisco DCNM server on the following hypervisors:

- VMware ESXi 6.0
- VMware ESXi 6.5
- VMware ESXi 6.7
- VMware ESXi 6.7 U1
- VMware vCenter 6.0
- VMware vCenter 6.5
- VMware vCenter 6.7
- VMware vCenter 6.7 U1

Note

- vCenter server is mandatory to deploy the Cisco DCNM OVA Installer.
- When you log into the VMware vSphere Web Client, the Adobe Shockwave Flash crashes with the latest Google Chrome 62.0.3202.62 (64-bit), Mozilla Firefox 56.0.1 (64-bit) and Internet Explorer 8.0.7601.17514. Hence you cannot install Cisco DCNM on VMware ESX using VMware vSphere Web Client. This is a known issue with Adobe Shockwave Flash version 27.0.0.159.

Cisco DCNM Server resources for various installers are summarized in the following table.

Table 2: Server Resources for LAN/Programmable Fabric and SAN

LAN: 25 Switches and up to 1000 Ports **SAN: 50 Switches and up to 2000 Ports**	**LAN: 100 Switches and up to 3000 Ports** **SAN: 200 Switches and up to 5000 Ports**	**LAN and SAN: 400+ nodes and 20000 ports**
2 CPU Cores 2GHZ (or faster) 2 VCPUs for ESXi or KVM, 2GHz (or faster)	4 CPU Cores 2GHZ (or faster) 4 VCPUs for ESXi or KVM, 2GHz (or faster)	4 CPU Cores 2GHZ (or faster) 4 VCPUs for ESXi or KVM, 2GHz (or faster)
8-GB memory, 80-GB free hard disk 2 servers or 2 VMs (ESXi or KVM), LAN/Programmable Fabric Native-HA or SAN federation	12-GB memory, 100-GB free hard disk 2 servers or 2 VMs (ESXi or KVM), LAN/Programmable Fabric Native-HA or SAN federation	12GB memory, 100-GB free hard disk 2 servers or 2 VMs (ESXi or KVM), LAN/Programmable Fabric Native-HA or SAN federation
PostgreSQL 9.4.5 [included], Oracle11g or Oracle 12c Standard or Enterprise	PostgreSQL 9.4.5 [included], Oracle11g or Oracle 12c Standard or Enterprise	Native-HA: PostGreSQL [Included with OVA/ISO, Oracle11g or Oracle 12c Standard or Enterprise with RAC with dedicated resources

Note

- If there are multiple devices in the SNMP unreachable state or if the Elasticsearch is running, Cisco DCNM (with 12GB memory) may run out of memory. This can happen when you use the Temperature monitoring or the Endpoint Locator features since both applications use Elasticsearch. In this case, you need to add an additional 12GB memory.
- Although it is not mandatory, we recommend that you register the server system with Domain Name Service (DNS) servers.

Client Requirements

Cisco DCNM SAN desktop client and Cisco Device Manager support Windows 7, Windows 2008, Windows 2012, and Red Hat Linux. The following table lists the minimum hardware requirements for these client systems.

Table 3: Client Hardware Requirements

Hardware	**Minimum Requirements**
RAM (free)	4 GB
CPU speed	3GHz or faster
Disk space (free)	20 GB

If you install Cisco DCNM in a virtual machine, you must reserve resources equal to the server resource requirements to ensure a baseline with the physical machines.

Some Cisco DCNM features require a license. Before using the licensed features, you must install a Cisco DCNM license for each Nexus or MDS managed platform.

Host Requirements

The following table lists the server resource requirements for deploying Cisco DCNM Release 10.4(1) Virtual Appliance (OVA).

Note Resource reservations for the OVA virtual machine are required to ensure consistent performance of the Cisco DCNM server.

Table 4: Host Requirements

Small Deployment: Up to 50 Switches	Large Deployment: More than 50 Switches
2 vCPUs, 2 GHz (or faster)	4 vCPUs, 2 GHz (or faster)
8-GB memory, 100 GB	16-GB memory, 100 GB

Supported Web Browsers

Cisco DCNM supports the following web browsers:

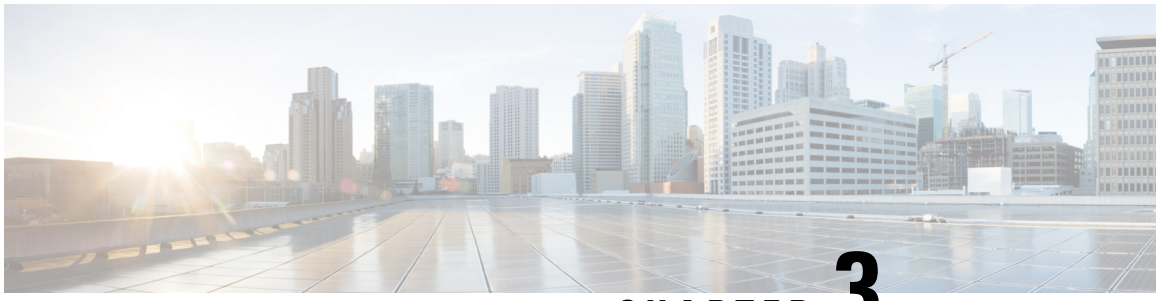
- Mozilla Firefox Version 53.0 (32-bit or 64-bit)
- Microsoft Internet Explorer Version 11.0.9600.18617CO

Other Supported Software

The following table lists other software supported by Cisco DCNM, Release 10.4(1).

Component	Minimum Requirements
Security	• ACS versions 4.0, 5.1, and 5.5 • Telnet Disabled: SSH Version 1, SSH Version 2, Global Enforce SNMP Privacy Encryption • Web Client and Cisco DCNM-SAN Server Encryption: HTTPS with TLS 1, 1.1 and 1.2
DHCP Server	• Cisco Network Registrar 8.2
OVA/ISO Installers	CentOS 6.6

Additionally, Cisco DCNM supports EMC call-home events, fabric change events, and events that are forwarded by traps and e-mail.



CHAPTER 3

New Features and Enhancements

Cisco Data Center Network Manager (DCNM), includes the new features, enhancements, and hardware support that are described in the following section:

• New Features and Enhancements in Cisco DCNM, Release 10.4(1), on page 7

New Features and Enhancements in Cisco DCNM, Release 10.4(1)

This section includes information about the new features, enhancements, and hardware support for Cisco DCNM, Release 10.4(1).

HBA Link Diagnostics

The HBA Link Diagnostics feature helps in validating the health of links between Host Bus Adapters (HBAs) and Cisco MDS switches in a network. The servers connect to Storage Area Networks (SANs) through hardware devices are called HBAs. This connectivity comprises of many optical and electrical components that may develop faults during their lifetime. The HBA Link Diagnostics feature allows identification of faulty cables, transceivers, ASICs, drivers, firmware issues or software issues, thereby eliminating dropped frames and ensuring reliable I/O operations of the server.

For more information about the Configuring HBA Link Diagnostics for Cisco MDS switches in a network, see the Cisco MDS 9000 Series NX-OS System Management Configuration Guide.

From the menu bar of Cisco DCNM Web Client, choose **Inventory** > **Switches**, and then click the **Interfaces** tab. The HBA diagnostic button appears in the interfaces tab for SAN discovered switches. Click the HBA diagnostic button to launch Host Diagnostic. The Link Diagnostic screen appears.

Supported Platforms

Cisco DCNM 10.4(1) enables you to run HBA Link Diagnostics on the following platforms:

- Cisco MDS 48-Port 16-Gbps Fibre Channel Switching Module: DS-X9448-768K9
- Cisco MDS 48-Port 32-Gbps Fibre Channel Switching Module: DS-X9648-1536K9
- Cisco MDS 24/10 SAN Extension Module (FC ports only): DS-X9334-K9
- Cisco MDS 9396S Multilayer Fabric Switch

Getting Loopback Capabilities

The **Get Loopback Capabilities** button is disabled when you click the Start button. The Loopback Capabilities button is to be used before clicking the Start button to see the capabilities of port or HBA.

Aborting Link Diagnostic Tests on a Port

If you want to stop the link diagnostic test, click the **Stop** button in the Link Diagnostic screen.

Disabling a Port From the Diagnostic Mode

You can click the **Disable Diagnostic** button for taking the port out of diagnostic mode when you have finished the testing.

Monitoring the Running Diagnostic Test

You can click the **Monitor existing Diag** button to begin monitoring a test that is already running. If no test is running, then you will be informed of this and Cisco DCNM will attempt to retrieve the results from the last test that ran and display them. If the port has already been taken out of diagnostic mode then retrieving of the results will fail and a message will be printed.

Displaying Diagnostic Test Results

If the **Show Results during polling** check box is selected, it will output the CLI progress details to the output window for each poll for the test progress. Otherwise results are only printed at test completion.

For more information about performing HBA link diagnostic tests, see the Cisco DCNM Online Help.

Switch On-Board SAN Analytics

The Switch On-Board SAN Analytics feature enables you to retrieve switch on board analytics data from switches. This data is displayed on the Switch Dashboard. To access the Switch On-Board SAN Analytics feature, choose **Inventory > View > Switches**, and then click the **Switch On-Board SAN Analytics** tab. The tab displays the following graphs:

- Top 10 Slowest Ports
- Top 10 Slowest Target Ports
- Top 10 Slowest Flows
- Top 10 Slowest ITLs
- Top 10 Port Traffic
- Top 10 Target Ports Traffic
- Top 10 Flow Traffic
- Top 10 ITL Traffic

Health Score in Switch Dashboard

Currently the health score of a switch is displayed in the switch tables of the Inventory > View > Switches and Dashboard > Network pages. The health score percentage is presented on a color bar. Clicking the color

bar displays more detail such as health score calculation, module list, switch port list, and events. The health score of switches can be viewed from the Switch Dashboard. The health score details can be viewed from the System Info tab.

Support for New Cisco Nexus 9000 Hardware

The following is a list of new hardware supported in Cisco DCNM Release 10.4(1).

Table 5: Support for New Cisco Nexus 9000 Hardware

Hardware Description	Part Number
36 40/100G Ethernet module for Nexus 9500 series	N9K-X9736C-FX
64x100G QSFP28 + 2x10GSFP 1RU	N9K-C9364C
36x100G Ethernet module for Nexus 9000 series	N9K-X9636C-RX
48P 1/10/25G + 6x100G QSFP28 1RU	N3K-C36180YC-R

Support for New Cisco MDS Hardware

Cisco MDS 9132T Fibre Channel Switch—The Cisco MDS 9132T 32-Gbps 32-Port Fibre Channel Switch is a powerful compact one rack-unit (1RU) SAN fabric switch. Cisco DCNM 10.4(1) supports Cisco MDS Fibre Channel fixed switch, which provides an optional LEM (Linecard Expansion Module) containing additional 16 ports, while the fixed module has 16 port fixed 4/8/16/32G Fiber Channel. Cisco DCNM can recognize the optional LEM when plugged-in.

ISSU Enhancements for Cisco MDS Switches

Automatic file selection based on the current image selection—Cisco DCNM 10.4(1) enables can select the images automatically to devices of same platform types that support same images. In case of the Cisco Nexus devices the same image is applied for all the devices having same platform and the model number (first two letters of model number). In case of Cisco MDS devices, mapping is as follows:

Table 6: Cisco MDS Switches

Switch	System Image
MDS 9124/9134	m9100-s2ek9-mz.*
MDS 9148	m9100-s3ek9-mz.*
MDS 9216i/9216A	m9200-ek9-mz.*
MDS 9222i	m9200-s2ek9-mz.*
MDS 95xx with SUP1	m9500-sf1ek9-mz.*
MDS 95xx with SUP2/SUP2A	m9500-sf2ek9-mz.*
MDS 9250i	m9250-s5ek9-mz.*

Switch	System Image
MDS 9148S	m9100-s5ek9-mz.*
MDS 9396S	m9300-s1ek9-mz.*
MDS 97xx	m9700-sf3ek9-mz.*

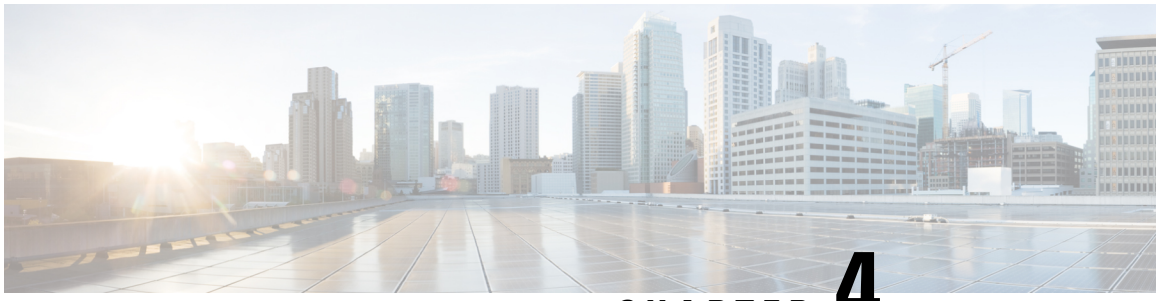
This mapping applicable for Cisco MDS 9120 and Cisco MDS 9140 switches as well.

Automatic file selection based on version and path—Cisco DCNM 10.4(1) enables you to select kickstart and system image automatically by providing the server details along with the image version and path. You can select the images automatically to devices of same platform types that support same images.

Support for FC-NPV on Cisco Nexus 9000 Series Switches

Fiber Channel over Ethernet (FCoE) N-port Virtulization (NPV) is an enhanced form of FCoE Initialization Protocol (FIP) snooping that provides a secure method to connect FCoE-capable hosts to an FCoE-capable FCoE forwarder (FCF) device.

With the FC-NPV feature on N9K, Cisco DCNM provides support to discover and manage Cisco Nexus 9000 Series Switches with FC-NPV mode and any port configured using the fc type. In addition, you can use Cisco DCNM-SAN NPV wizard to configure Cisco Nexus 9000 Series Switches with FC-NPV mode after FC-NPV mode is enabled on the switches.



CHAPTER 4

Upgrading Cisco DCNM

This chapter provides information about upgrading Cisco DCNM, and contains the following section:

Upgrading Cisco DCNM

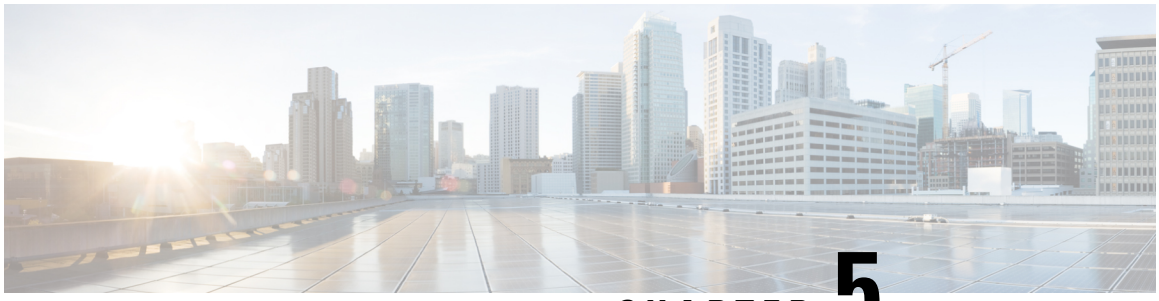
You can upgrade the following versions of Cisco DCNM directly to Cisco DCNM 10.4(1).

- Cisco DCNM 10.2(1)
- Cisco DCNM 10.3(1)

For more information about upgrading, see the "Upgrading Cisco DCNM" section of the *Cisco DCNM Installation Guide, Release 10.4(1)* at:

http://www.cisco.com/c/en/us/support/cloud-systems-management/prime-data-center-network-manager/products-installation-guides-list.html

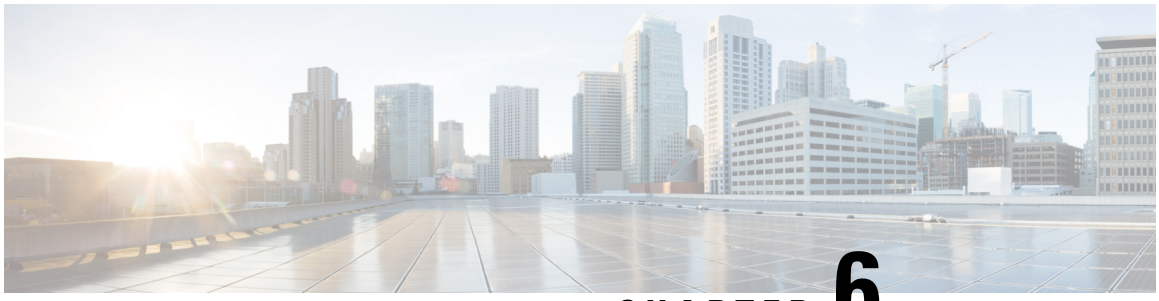
Upgrading Cisco DCNM



CHAPTER 5

Supported Cisco Platforms and Software Versions

For information about the software platforms and versions that the Cisco Data Center Network Manager (DCNM) Release 10.4(1) supports, see the Cisco DCNM Compatibility Matrix, Release 10.4(1).



CHAPTER 6

Supported Hardware

This chapter contains information about the products and components supported in Cisco Prime DCNM .

Hardware Supported in Cisco DCNM, Release 10.4(1)

The following tables list the products and components supported in Cisco DCNM, Release 10.4(1).

Table 7: Cisco MDS 9000 Family

Product/Component	Part Number
Cisco MDS 9700 48-Port 32-Gbps Fibre Channel Switching Module	DS-X9648-1536K9
Cisco MDS 9250i Multilayer Fabric Switch	DS-9250I-K9
Cisco MDS 9124 24-Port Multilayer Fabric Switch	DS-C9124-K9
Cisco MDS 9134 34-Port Multilayer Fabric Switch	DS-C9134-K9
Cisco MDS 9148 48-Port Multilayer Fabric Switch	DS-C9148-K9
Cisco MDS 9148 48-Port Multilayer Fabric Switch	DS-C9148S-K9
Cisco MDS 9216i Multilayer Fabric Switch	DS-C9216i-K9
Cisco MDS 9222i Multilayer Fabric Switch	DS-C9222i-K9
Cisco MDS 9506 Multilayer Director	DS-C9506
Cisco MDS 9509 Multilayer Director	DS-C9509
Cisco MDS 9513 Multilayer Director	DS-C9513
Cisco MDS 9706 Multilayer Director	DS-C9706
Cisco MDS 9710 Multilayer Director	DS-C9710
Cisco MDS 9718 Multilayer Director	DS-C9718
Cisco MDS 9000 32-Port 2-Gbps Fibre Channel Switching Module	DS-X9032

Product/Component	Part Number
Cisco MDS 9000 32-Port Storage Services Module	DS-X9032-SSM
Cisco MDS 9000 12-port 4-Gbps Fibre Channel Switching Module	DS-X9112
Cisco MDS 9000 12-port 4-Gbps Fibre Channel Switching Module	DS-X9112
Cisco MDS 9000 12-port 4-Gbps Fibre Channel Switching Module	DS-X9112
Cisco MDS 9000 24-port 4-Gbps Fibre Channel Switching Module	DS-X9124
Cisco MDS 9000 48-port 4-Gbps Fibre Channel Switching Module	DS-X9148
Cisco MDS 9000 24-Port 8-Gbps Fibre Channel Switching Module	DS-X9224-96K9
Cisco MDS 9000 32-port 8-Gbps Advanced Fibre Channel Switching Module	DS-X9232-256K9
Cisco MDS 9000 48-port 8-Gbps Advanced Fibre Channel Switching Module	DS-X9248-256K9
Cisco MDS 9000 4/44-Port Host-Optimized 8-Gbps Fibre Channel Switching Module	DS-X9248-48K9
Cisco MDS 9000 48-Port 8-Gbps Fibre Channel Switching Module	DS-X9248-96K9
Cisco MDS 9000 Family 14-Port Fibre Channel and 2-port Gigabit Ethernet Module	DS-X9302-14K9
Cisco MDS 9000 18/4-Port Multiservice Module (MSM-18/4)	DS-X9304-18K9
Cisco MDS 9000 4-port 1-Gbps IP Storage Module	DS-X9304-SMIP
Cisco MDS 9000 8-port 1-Gbps IP Storage Module	DS-X9308-SMIP
Cisco MDS 9000 Family 16-Port Storage Services Node (SSN-16)	DS-X9316-SSNK9
Cisco MDS 9000 Family 24/10 SAN Extension Module	DS-X9334-K9
Cisco MDS 9000 48-port 16-Gbps Fibre Channel Switching Module with SFP LC connectors	DS-X9448-768K9
Cisco MDS 9500 Series Supervisor-1 Module	DS-X9530-SF1-K9
Cisco MDS 9500 Series Supervisor-2 Module	DS-X9530-SF2-K9
Cisco MDS 9500 Series Supervisor-2A Module	DS-X9530-SF2A-K9
Cisco MDS 9000 Family 4-Port 10-Gbps Fibre Channel Switching Module	DS-X9704

Product/Component	Part Number
Cisco MDS 9000 8-port 10-Gbps Fibre Channel over Ethernet (FCoE) Module	DS-X9708-K9
Cisco MDS 48-Port 10-Gigabit Fibre Channel over Ethernet (FCoE) Module with SFP LC connectors	DS-X9848-480K9
Cisco MDS 9132T 1RU Switch 32x32G-FC	DS-C9132T

Table 8: Cisco Nexus 9000 Series Switches

Product/Component	Part Number
Cisco Nexus 9000 Series Switches	
48P 1/10/25G + 6x100G QSFP28 1RU	N3K-C36180YC-R
36 40/100G Ethernet module for Nexus 9500 series	N9K-X9736C-FX
64x100G QSFP28 + 2x10GSFP 1RU	N9K-C9364C
36x100G Ethernet module for Nexus 9000 series	N9K-X9636C-RX
1RU TOR, fixed module 48 100/1000Mbps + 4 25G SFP28 + 2 100G QSFP28	N9K-C9348GC-FXP
1RU TOR, fixed module 48 10/25G SFP28 + 6 40/100G QSFP28	N9K-C93180YC-FX
1RU TOR, fixed module for Nexus 9300 series 6 40G/100G QSFP28 + 48 10G BASE-T	N9K-C93108TC-FX
Broadwell CPU based Supervisor module for Nexus 9400 series	N9K-SUPA-PLUS
Broadwell CPU based Supervisor module for Nexus 9400 series	N9K-SUPB-PLUS
Nexus 9K Fixed with 48p 10G BASE-T and 6p 40G/100G QSFP28	N9K-C93108TC-EX
N9K-C92300YC-FixedModule	N9K-C92300YC
48-port 1/10/25 Gigabit Ethernet SFP+ and 4-port 40/100 Gigabit Ethernet QSFP line card	N9K-X97160YC-EX
Nexus N9K-C9232C Series fixed module with 32x40G/100G	N9K-C9232C
Nexus 9K Fixed with 48p 1/10G/25G SFP+ and 6p 40G/100G QSFP28	N9K-C93180YC-EX
Cisco Nexus 9000 Series 40GE Modules	
N9K 32p 40G Ethernet Module	N9K-X9432PQ

Product/Component	Part Number
36p 40G Ethernet Module	N9K-X9636PQ
Cisco Nexus 9000 Series 10GE Fiber and Copper Modules	
8-port 100-Gigabit CFP2 I/O module	N9K-X9408PC-CFP2
100 Gigabit Ethernet uplink ports	N9K-M4PC-CFP2
Cisco Nexus 9500 line card support	N9K-X9564PX
N9K 48x1/10G-T 4x40G Ethernet Module	N9K-X9464PX
Cisco Nexus 9500 line card support	N9K-X9564TX
N9K 48x1/10G SFP+ 4x40G Ethernet Module	N9K-X9464TX
Cisco Nexus 9000 Series GEM Module	
N9K 40G Ethernet Expansion Module	N9K-M12PQ
N9K 40G Ethernet Expansion Module	N9K-M6PQ
Cisco Nexus 9200 Switches	
Nexus 92160YC-X with High performance 1RU box, 48 1/10/25-Gb host ports	N9K-C92160YC-X
Nexus 9272Q with High-performance, 72-port\40-Gb fixed switching 2RU box, 5.76 Tbps of bandwidth	N9K-C9272Q
Nexus 9200 with 56p 40G QSFP+ and 8p 100G QSFP28	N9K-C92304QC
Nexus 9200 with 36p 40G 100G QSFP28	N9K-C9236C
Nexus 9200 with 48p 1/10G/25G SFP+ and 6p 40G QSFP or 4p 100G QSFP28	N9K-C92160YC-X
Nexus 9200 with 72p 40G QSFP+	N9K-C9272Q
Cisco Nexus 9300 Fixed Switches	
Nexus 9300 with 24p 40/50G QSFP+ and 6p 40G/100G QSFP28	N9K-C93180LC-EX
9372-PXE - 48 1/10-Gbps (SFP+) ports and 6 Quad SFP+ (QSFP+) uplink port, 1 RU box	N9K-C9372PX-E
Cisco Nexus 9396PX Switch	N9K-C9396PX
Cisco Nexus 9396TX Switch	N9K-C9396TX
Cisco Nexus 9372PX Switch	N9K-C9372TX
Cisco Nexus 9372PX Switch	N9K-C9372TX
Cisco Nexus 9372TX Switch	N9K-C9372TX
Cisco Nexus 9372TX Switch	N9K-C9372PX

Product/Component	Part Number
Cisco Nexus 9332PQ Switch	N9K-C9332PQ
Cisco Nexus 93128TX Switch	N9K-C93128TX
Nexus 9300 with 48p 1/10G-T and 6p 40G QSFP+	N9K-C9372TX-E
Cisco Nexus 9500 Modular Chassis	
New fabric module for the Cisco Nexus 9516 Switch chassis	N9K-C9516-FM-E
40/100G Ethernet Module for for Nexus 9500 series chassis	N9K-X9736C-EX
Cisco Nexus 9504 Switch	N9K-C9504
Cisco Nexus 9508 Switch	N9K-C9508
Cisco Nexus 9516 Switch	N9K-C9516
Nexus 9500 linecard, 32p 100G QSFP aggregation linecard	N9K-X9732C-EX
Nexus 9500 linecard, 32p 100G QSFP28 aggregation linecard (Linerate >250 Bytes)	N9K-X9432C-S
Cisco Nexus 9500 Fabric Modules	
Fabric Module for Nexus 9504 with 100G support, NX-OS and ACI spine	N9K-C9504-FM-E
Fabric Module for Nexus 9504 with 100G support, NX-OS only	N9K-C9504-FM-S
Fabric Module for Nexus 9508 chassis 100G support, NX-OS and ACI spine	N9K-C9508-FM-E
Fabric Module for Nexus 9508 chassis 100G support, NX-OS only	N9K-C9508-FM-S

Table 9: Cisco Nexus 7000 Series Switches

Product/Component	Part Number
Supported Chassis	
Cisco Nexus 7004 chassis	N7K-C7004
Cisco Nexus 7706 chassis	N77-C7706-FAB2
Cisco Nexus 7009 chassis	N7K-C7009
Cisco Nexus 7010 chassis	N7K-C7010
Cisco Nexus 7018 chassis	N7K-C7018
Cisco Nexus 7710 chassis	N7K-C7710

Product/Component	Part Number
Cisco Nexus 7718 chassis	N7K-C7718
Fabric module, Cisco Nexus 7009 chassis	N7K-C7009-FAB-2
Fabric module, Cisco Nexus 7010 chassis	N7K-C7010-FAB-1
Fabric module, Cisco Nexus 7010 chassis	N7K-C7010-FAB-2
Fabric module, Cisco Nexus 7018 chassis	N7K-C7018-FAB-1
Fabric module, Cisco Nexus 7018 chassis	N7K-C7018-FAB-2
Fabric module, Cisco Nexus 7710 chassis	N77-C7710-FAB-1
Fabric module, Cisco Nexus 7710 chassis	N77-C7710-FAB-2
Fabric module, Cisco Nexus 7718 chassis	N77-C7718-FAB-2
Supported Supervisor	
Cisco Nexus 7000 Supervisor 1 Module	N7K-SUP1
Cisco Nexus 7000 Supervisor 2 Module	N7K-SUP2
Cisco Nexus 7000 Supervisor 2 Enhanced Module	N7K-SUP2E
Cisco Nexus 7700 Supervisor 2 Enhanced Module	N77-SUP2E
Supported F Line Cards	
32-port 1/10 Gigabit Ethernet SFP+ I/O Module	N7K-F132XP-15
48-port 1/10 Gigabit Ethernet SFP+ I/O Module (F2 Series)	N7K-F248XP-25
48-port 1/10 Gigabit Ethernet SFP+ I/O Module (Enhanced F2 Series)	N7K-F248XP-25E
48-port 1/10 GBase-T RJ45 Module (Enhanced F2-Series)	N7K-F248XT-25E
Cisco Nexus 7700 Enhanced 48-port 1/10 Gigabit Ethernet SFP+ I/O Module (F2 Series)	N77-F248XP-23E
Cisco Nexus 7000 1 F3 100G	N7K-F306CK-25
Cisco Nexus 7000 F3-Series 6-Port 100G Ethernet Module	N7K-F306CK-25
Cisco Nexus 7000 F3-Series 12-Port 40G Ethernet Module	N7K-F312FQ-25
Cisco Nexus 7700 F3-Series 24-Port 40G Ethernet Module	N77-F324FQ-25
Cisco Nexus 7700 F3-Series 48-Port Fiber 1 and 10G Ethernet Module	N77-F348XP-23
Nexus 7000 F3-Series 48-Port Fiber 1 and 10G Ethernet Module	N7K-F348XP-25

Product/Component	Part Number
Supported M Line Cards	
8-port 10-Gigabit Ethernet Module with XL Option (requires X2)	N7K-M108X2-12L
32-port 10-Gigabit Ethernet SFP+ I/O Module	N7K-M132XP-12
32-port 10-Gigabit Ethernet SFP+ I/O Module with XL Option	N7K-M132XP-12L
48-port 10/100/1000 Ethernet I/O Module	N7K-M148GT-11
48-port 1-Gigabit Ethernet SFP I/O Module	N7K-M148GS-11
48-port 1-Gigabit Ethernet Module with XL Option	N7K-M148GS-11L
2-port 100-Gigabit Ethernet I/O Module with XL Option	N7K-M202CF-22L
6-port 40-Gigabit Ethernet I/O Module with XL Option	N7K-M206FQ-23L
24-port 10-Gigabit Ethernet I/O Module with XL Option	N7K-M224XP-23L
Network Analysis Module NAM-NX1	N7K-SM-NAM-K9

Table 10: Cisco Nexus 6000 Series Switches

Product/Component	Part Number
N6004X/5696 chassis **Note** This has been rebranded as Cisco Nexus 5000 Series Switches Chassis	N5K-C5696Q
Cisco Nexus 6001-64T Switch	N6K-C6001-64T
Cisco Nexus 6001-64P Switch	N6K-C6001-64P
Cisco Nexus 6004 EF Switch	N6K-C6004
Cisco Nexus 6004 module 12Q 40-Gigabit Ethernet Linecard Expansion Module/FCoE, spare	N6004X-M12Q
Cisco Nexus 6004 M20UP LEM	N6004X-M20UP
Cisco Nexus 6004P-96Q Switch	N6K-6004-96Q

Table 11: Cisco Nexus 5000 Series Switches

Product/Component	Part Number
Cisco Nexus 5648Q Switch is a 2RU switch, 24 fixed 40-Gbps QSFP+ ports and 24 additional 40-Gbps QSFP+ ports	N5K-C5648Q

Product/Component	Part Number
Cisco Nexus 5624Q Switch 1 RU, -12 fixed 40-Gbps QSFP+ ports and 12 X 40-Gbps QSFP+ ports expansion module	N5K-C5624Q
20 port UP LEM	N5696-M20UP
12 port 40G LEM	N5696-M12Q
4 port 100G LEM	N5696-M4C
N5000 1000 Series Module 6-port 10GE	N5K-M1600(=)
N5000 1000 Series Module 4x10GE 4xFC 4/2/1G	N5K-M1404=
N5000 1000 Series Module 8-port 4/2/1G	N5K-M1008=
N5000 1000 Series Module 6-port 8/4/2G	N5K-M1060=
Cisco Nexus 56128P Switch	N5K-C56128P
Cisco Nexus 5010 chassis	N5K-C5010P-BF
Cisco Nexus 5020 chassis	N5K-C5020P-BF N5K-C5020P-BF-XL
Cisco Nexus 5548P Switch	N5K-C5548P-FA
Cisco Nexus 5548UP Switch	N5K-C5548UP-FA
Cisco Nexus 5672UP Switch	N5K-C5672UP
Cisco Nexus 5596T Switch	N5K-C5596T-FA
Cisco Nexus 5596UP Switch	N5K-C5596UP-FA
Cisco Nexus 0296-UPT chassis and GEM N55-M12T support	N5K-C5596T-FA-SUP
16-port Universal GEM, Cisco Nexus 5500	N5K-M16UP
Version 2, Layer 3 daughter card	N55-D160L3-V2

Table 12: Cisco Nexus 4000 Series Switches

Product/Component	Part Number
Cisco Nexus 4001I Switch Module	N4K-4001I-XPX
Cisco Nexus 4005I Switch Module	N4K-4005I-XPX

Table 13: Cisco Nexus 3000 Series Fabric Extenders

Product/Component	Part Number
Cisco Nexus 3016 Switch	N3K-C3016Q-40GE
Cisco Nexus 3048 Switch	N3K-C3048TP-1GE

Product/Component	Part Number
Cisco Nexus 3064-E Switch	N3K-C3064PQ-10GE
Cisco Nexus 3064-X Switch	N3K-C3064PQ-10GX
Cisco Nexus 3064-T Switch	N3K-C3064TQ-10GT
Nexus 31108PC-V, 48 SFP+ and 6 QSFP28 ports	N3K-C31108PC-V
Nexus 31108TC-V, 48 10GBase-T RJ-45 and 6 QSFP28 ports	N3K-C31108TC-V
Cisco Nexus 3132Q Switch	N3K-C3132Q-40GE
Nexus 3132 Chassis	N3K-C3132Q-40GX
Cisco Nexus 3172PQ Switch	N3K-C3172PQ-10GE
Cisco Nexus 3548 Switch	N3K-C3548P-10G

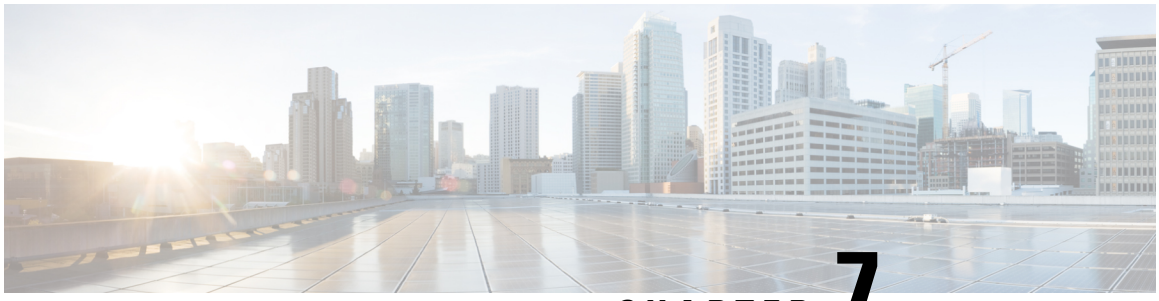
Table 14: Cisco Nexus 2000 Series Fabric Extenders

Product/Component	Part Number
Nexus 2348 Chassis	N2K-C2348TQ-10GE
Cisco Nexus 2348UPQ 10GE 48 x 1/10 Gigabit Ethernet and unified port host interfaces (SFP+) and up to 6 QSFP+ 10/40 Gigabit Ethernet fabric interfaces	N2K-C2348UPQ
Cisco Nexus 2148 1 GE Fabric Extender	N2K-C2148T-1GE
Cisco Nexus 2224TP Fabric Extender	N2K-C2224TP-1GE
Cisco Nexus 2232TM 10GE Fabric Extender	N2K-C2232TM-10GE
Cisco Nexus 2232TM 10GE Fabric Extender	N2K-C2232TM-E-10GE
Cisco Nexus 2232PP 10 GE Fabric Extender	N2K-C2232PP-10GE
Cisco Nexus 2248TP 1 GE Fabric Extender	N2K-C2248TP-1GE
Cisco Nexus 2248TP E GE Fabric Extender	N2K-C2248TP-E GE
Cisco Nexus 2248PQ Fabric Extender	N2K-C2248PQ-10GE
Cisco Nexus B22 Fabric Extender for HP	N2K-B22HP-P
Cisco Nexus B22 Fabric Extender for Fujitsu	N2K-B22FTS-P
Cisco Nexus B22 Fabric Extender for Dell	N2K-B22DELL-P
Cisco Nexus 2348TQ-E 10GE Fabric Extender	

Table 15: Cisco Nexus 1000V Series Switch

Product/Component	Part Number
Cisco Nexus 1110-S Virtual Services Appliance	N1K-1110-S

Product/Component	Part Number
Cisco Nexus 1110-X Virtual Services Appliance	N1K-1110-X



CHAPTER 7

Caveats

Caveats describe unexpected behavior in a product. The Open Caveats section lists open caveats that apply to the current release and may apply to previous releases. A caveat that is open for a prior release and is still unresolved applies to all future releases until it is resolved.

To view the details of the software bugs pertaining to your product, perform the following task:

- Click the Caveat ID/Bug ID number in the table.

The corresponding **Bug Search Tool** window is displayed with details of the Caveat ID/Bug ID.

The Bug Search Tool (BST), which is the online successor to the Bug Toolkit, is designed to improve the effectiveness in network risk management and device troubleshooting. The BST allows partners and customers to search for software bugs based on product, release, and keyword, and aggregates key data, such as bug details, product, and version. The tool has a provision to filter bugs based on credentials to provide external and internal bug views for the search input.

To view the details of a caveat whose ID you do not have, perform the following procedure:

1. Access the BST using your Cisco user ID and password at:

   https://tools.cisco.com/bugsearch/

2. In the **Bug Search** window that is displayed, enter the necessary information in the corresponding fields.

For more information about how to use the Cisco Bug Search Tool effectively, including how to set email alerts for bugs and to save bugs and searches, see Bug Search Tool Help & FAQ.

This chapter lists the Open and Resolved Caveats in Cisco DCNM, and contains the following section:

Cisco DCNM, Release 10.4(1)

Resolved Caveats

The following table lists the Resolved bugs for Cisco DCNM, Release 10.4(1).

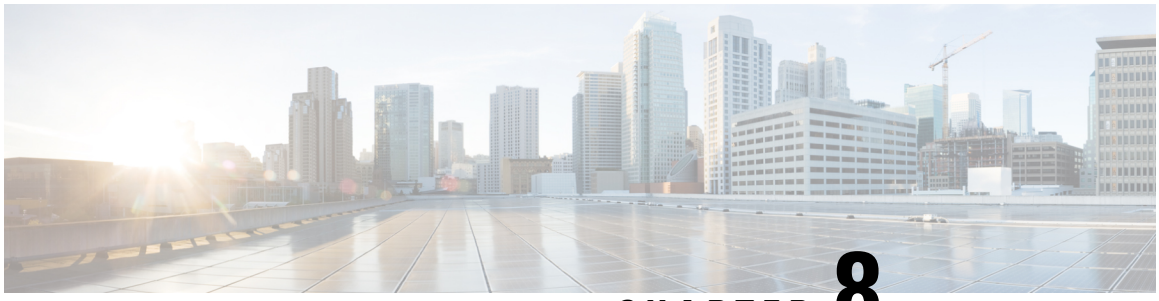
Caveat ID Number	Description
CSCvf22408	Inconsistency in the display of graph and table data in the Performance Monitoring pages.

Caveat ID Number	Description
CSCvf35701	Temperature report throws error when clicked on the email link that has csv format.
CSCvf39437	Issue with PM collection on OVA federated upgraded setup.
CSCvf41732	The Temperature screen times out after Endpoint Locator database clean up.
CSCve25345	Cisco DCNM password is visible in plain text.
CSCvf41787	VLAN reusability issue after DCNM restart.
CSCvf46667	The Partitions drop-down options are not sorted in the Configure > LAN Fabric Auto-Configuration > Networks list screen.

Open Caveats

The following table lists the Open bugs for Cisco DCNM, Release 10.4(1).

Caveat ID Number	Description
CSCvg39307	OIF is missing for most of the flows after rebooting Native-HA active node.
CSCvf94187	Sorting issue for Error Discard in the table of the Link Utilizations of ISLs.
CSCvg32790	Native HA validation for Active/Standby on different subnets.
CSCvg42974	When you log into the VMware vSphere Web Client, the Adobe Shockwave Flash crashes with the latest Google Chrome 62.0.3202.62 (64-bit), Mozilla Firefox 56.0.1 (64-bit) and Internet Explorer 8.0.7601.17514. Hence you cannot install Cisco DCNM on VMware ESX using VMware vSphere Web Client. This is a known issue with Adobe Shockwave Flash version 27.0.0.159.
CSCve22734	After performing POAP, the bootstatus is not updated with older images in the POAP tab.
CSCvg41098	Upgrading 10.2(1) OVA federation to 10.4(1)S18 -AMQP is not starting automatically or manually.
CSCvg51299	HTTP to HTTPS redirection is blocked in Cisco DCNM 10.4(1).
CSCvg51170	Temperature is not collected for large set up after upgrade on OVA image.



CHAPTER 8

Related Documentation

This chapter provides information about the documentation available for Cisco Data Center Network Manager (DCNM) and the platforms that Cisco DCNM manages, and includes the following sections:

Platform-Specific Documents

The documentation set for platform-specific documents that Cisco DCNM manages includes the following:

Cisco Nexus 2000 Series Fabric Extender Documentation

http://www.cisco.com/en/US/products/ps10110/tsd_products_support_series_home.html

Cisco Nexus 3000 Series Switch Documentation

http://www.cisco.com/en/US/products/ps11541/tsd_products_support_series_home.html

Cisco Nexus 4000 Series Switch Documentation

http://www.cisco.com/en/US/products/ps10596/tsd_products_support_series_home.html

Cisco Nexus 5000 Series Switch Documentation

https://www.cisco.com/c/en/us/support/switches/nexus-5000-series-switches/products-installation-and-configuration-guides-list.html

Cisco Nexus 6000 Series Switch Documentation

http://www.cisco.com/en/US/partner/products/ps12806/tsd_products_support_general_information.html

Cisco Nexus 7000 Series Switch Documentation

http://www.cisco.com/en/US/products/ps9902/tsd_products_support_series_home.html

Cisco Nexus 9000 Series Switch Documentation

http://www.cisco.com/c/en/us/support/switches/nexus-9000-series-switches/tsd-products-support-series-home.html

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- To find warranty information for a specific product or product family, access Cisco Warranty Finder.

Cisco Bug Search Tool

Cisco Bug Search Tool (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.