Cisco DCNM Release Notes, Release 10.3(1)

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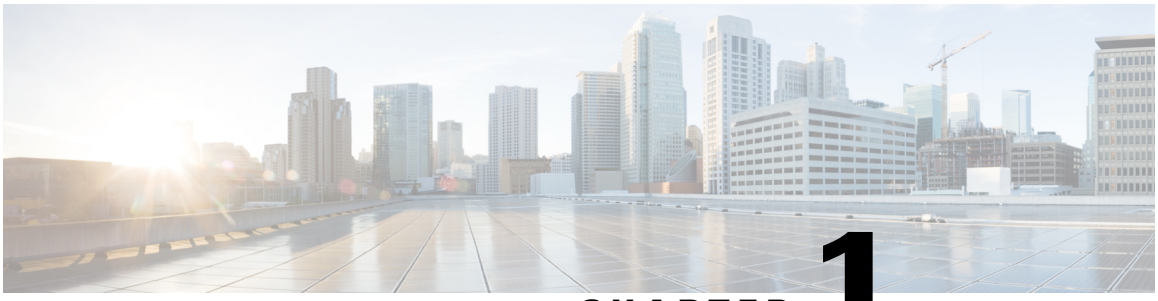


CHAPTER 1

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 10.3(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**.

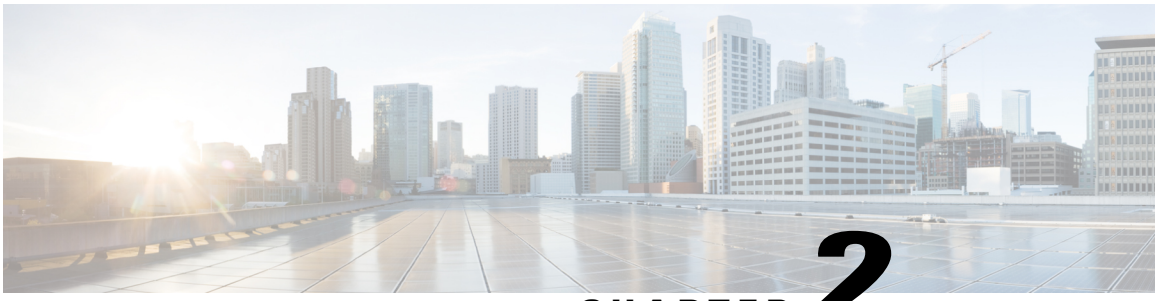
This document provides the Release Notes for Cisco DCNM, Release 10.3(1). Use this document in combination with the documents listed in Related Documentation, on page 27.

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
June 2017	Published Release Notes for Cisco DCNM Release 10.3(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 10.3(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 10.3(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
- OVA and ISO with integrated operating system

Cisco DCNM Release 10.3(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 10.3(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 10.3(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 10.3(1) supports the running of the Cisco DCNM server on the following hypervisors:

- VMware ESXi 6.0
- VMware ESXi 6.5
- VMware vCenter 6.0

Note vCenter server is mandatory to deploy the Cisco DCNM OVA Installer.

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)

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
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 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 10.3(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 10.3(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.

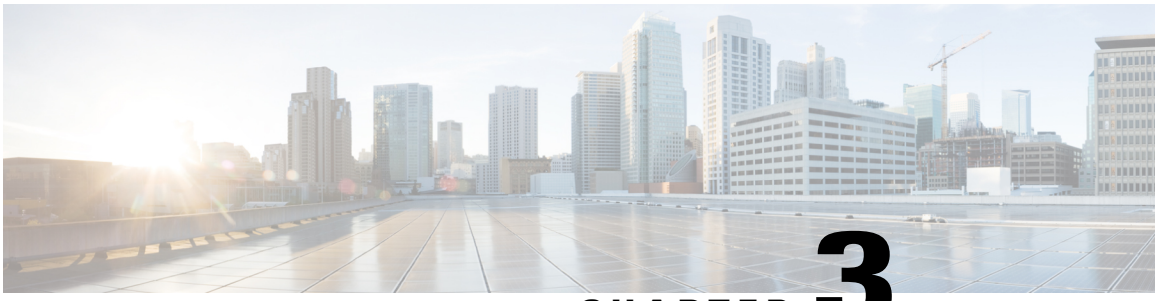
Installation Notes for Cisco DCNM, Release 10.3(1)

The following installation notes apply to Cisco DCNM, Release 10.3(1):

- The Cisco DCNM Installer includes the Cisco DCNM server SAN client, Device Manager, SMI-S provider, PostgreSQL 9.4.5.
- The Cisco DCNM virtual appliance includes the Cisco DCNM serve and SAN client, Device Manager, PostgreSQL, Cisco XCP, OpenLDAP, RabbitMQ, DHCPD, all of which are installed on a 64-bit CentOS.
- On the Cisco DCNM Web Client, clicking the Evaluation License URL on Cisco DCNM **Web Client Administration > DCNM Server > License** tab results in an ***Invalid Referrer*** error message being displayed. This occurs if you have not signed out correctly during the previous instance. To resolve this, highlight the URL address in the web browser menu bar and press the **Return** key. Clear the web browser cache for the URL to work.

For information about installing Cisco DCNM Release 10.3(1), see the corresponding version of the *Cisco DCNM Installation Guide* at:

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



CHAPTER 3

New Features and Enhancements

Cisco Data Center Network Manager (DCNM), Release 10.3(1) includes the new features, enhancements, and hardware support that are described in the following section:

New Features and Enhancements in Cisco DCNM, Release 10.3(1)

This section includes information about the new features, enhancements, and hardware support for Cisco DCNM, Release 10.3(1).

Enhanced Performance and Event Management

Tag User for Event Acknowledgement—The **Ack User** column displays the name of user who acknowledged the event.

Event Forwarder Scopes for LAN and Port Group—This Release enables you to specify the Data Center scope for all managed network devices. In the **Forwarding Scope** field of the Forwarding page (**Administration > Event Setup > Forwarding**), choose the **Fabric/LAN** or **Port Groups** for notification.

Event Forwarder Event Count Filter—In the **Event Count Filter** field (**Administration > Event Setup > Forwarding**), you can add a filter for event count to event forwarder. The forwarding action stops forwarding an event if the event count exceeds the limit specified by the event count filter. In this field you can specify a count limit. Before an event can be forwarded, Cisco DCNM checks if its occurrence exceeds the count limit. If it does, the event will not be forwarded.

Last Seen and First Seen information—The **Count** column **(Monitor > Switch > Events)** displays the number of times the same event has occurred during the time period that is shown in the **Last Seen** and **First Seen** columns.

Viewing Switch Temperature

Cisco DCNM includes module temperature sensor monitoring whereby you can view sensor temperature. You can choose an interval that filters the sensor list. The default interval is Last Day. Only sensors that have historical temperature data will be shown in the list. You can choose between the Last 10 Minutes, Last Hour, Last Day, Last Week, and Last Month. To view the switch temperature details, choose choose **Monitor > Switch > Temperature**. You can enable temperature monitoring using the **Administration > Performance Setup > LAN Collections** screen. When you enable the temperature monitoring feature in the LAN Collections screen, the feature is enabled on both LAN and SAN switches.

It is not necessary to configure the LAN or SAN credentials under the **Configure > Credentials Management > LAN Credentials** screen to fetch the temperature monitoring data from the switches.

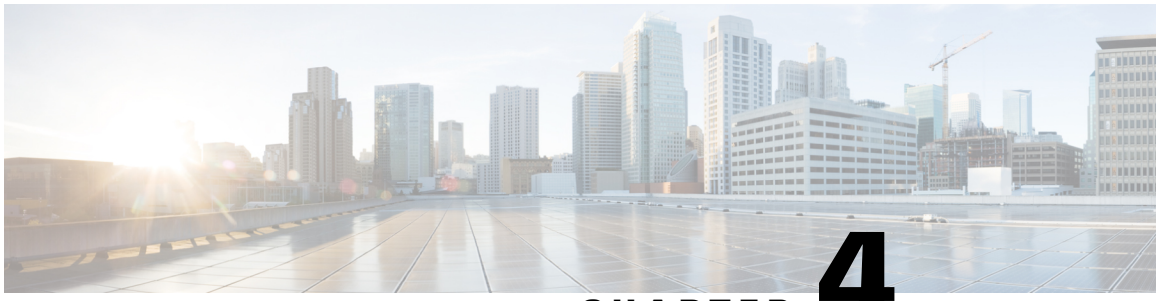
Support for VMware 6.5

Cisco DCNM 10.3(1) supports VMware 6.5.

Support for New Cisco Nexus 9000 Hardware

The following is a list of hardware supported in Cisco DCNM Release 10.3(1).

Hardware Description	Part Number
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



CHAPTER 4

Upgrading Cisco DCNM

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

Upgrading Cisco DCNM

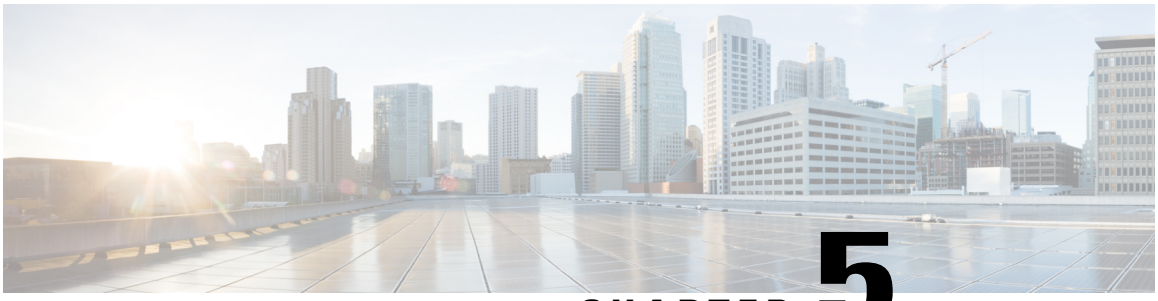
You can upgrade the following versions of Cisco DCNM directly to Cisco DCNM 10.3(1).

- Cisco DCNM 10.2(1)

For more information about upgrading, see the "Upgrading Cisco DCNM" section of the *Cisco DCNM Installation Guide, Release 10.3(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

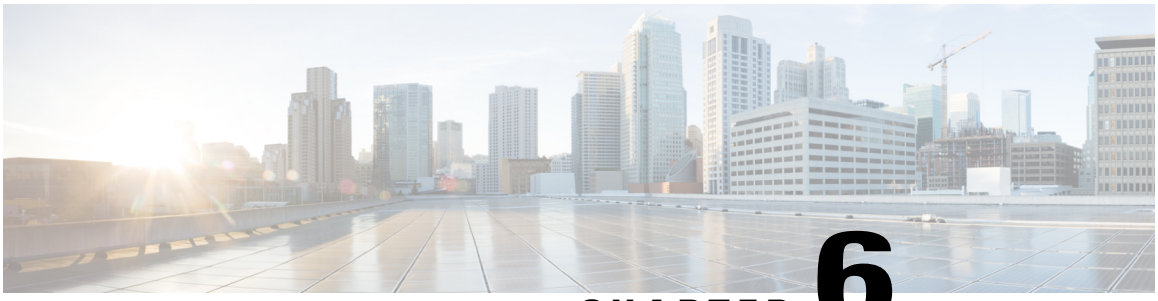


CHAPTER 5

Supported Cisco Platforms and Software Versions

For information about the software platforms and versions that the Cisco Data Center Network Manager (DCNM) Release 10.3(1) supports, see the Cisco DCNM Compatibility Matrix, Release 10.3(1).

Note For compatibility reasons, we recommend that you run the same version (or a later version) of Cisco DCNM as the Cisco NX-OS software.



CHAPTER 6

Supported Hardware

This chapter contains information about the products and components supported in Cisco Prime DCNM Release 10.3(1).

Hardware Supported in Cisco DCNM, Release 10.3(1)

The following tables list the products and components supported in Cisco DCNM, Release 10.3(1).

Table 5: 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

Product/Component	Part Number
Cisco MDS 9718 Multilayer Director	DS-C9718
Cisco MDS 9000 32-Port 2-Gbps Fibre Channel Switching Module	DS-X9032
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

Product/Component	Part Number
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
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

Table 6: Cisco Nexus 9000 Series Switches

Product/Component	Part Number
Cisco Nexus 9000 Series Switches	
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	

Product/Component	Part Number
N9K 32p 40G Ethernet Module	N9K-X9432PQ
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

Product/Component	Part Number
Cisco Nexus 9372TX Switch	N9K-C9372TX
Cisco Nexus 9372TX Switch	N9K-C9372PX
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 7: Cisco Nexus 7000 Series Switches

Product/Component	Part Number
Supported Chassis	
Cisco Nexus 7004 chassis	N7K-C7004
Cisco Nexus 7706 chassis	N77-C7706-FAB2

Product/Component	Part Number
Cisco Nexus 7009 chassis	N7K-C7009
Cisco Nexus 7010 chassis	N7K-C7010
Cisco Nexus 7018 chassis	N7K-C7018
Cisco Nexus 7710 chassis	N7K-C7710
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

Product/Component	Part Number
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
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 8: 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

Product/Component	Part Number
Cisco Nexus 6004 M20UP LEM	N6004X-M20UP
Cisco Nexus 6004P-96Q Switch	N6K-6004-96Q

Table 9: 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
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 10: 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 11: Cisco Nexus 3000 Series Fabric Extenders

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

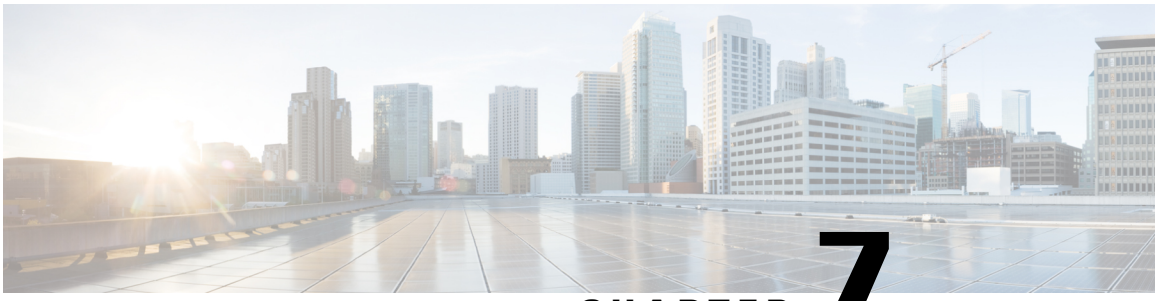
Table 12: Cisco Nexus 2000 Series Fabric Extenders

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

Product/Component	Part Number
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 13: Cisco Nexus 1000V Series Switch

Product/Component	Part Number
Cisco Nexus 1110-S Virtual Services Appliance	N1K-1110-S
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 10.3(1)

Resolved Caveats

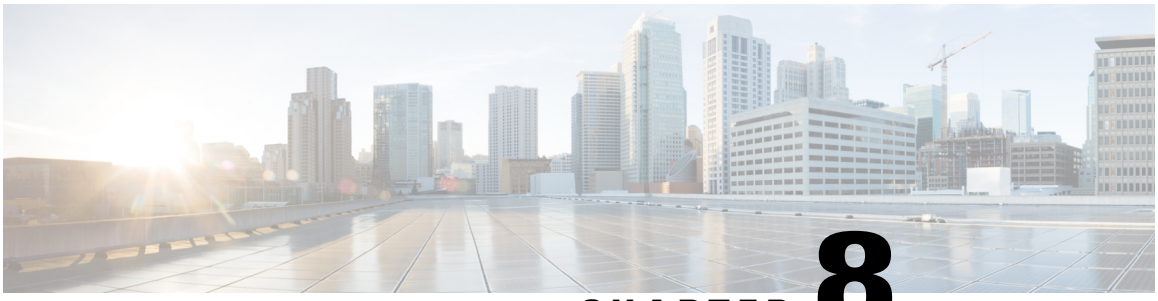
The following table lists the Resolved bugs for Cisco DCNM, Release 10.3(1).

Caveat ID Number	Description
CSCvd73750	Performance data is not shown for HIF interfaces.
CSCve06563	The **appmgr restore all** command is not restoring the webUI Media Controller menus.
CSCve14402	The voap.py script is getting replaced with the file that is there in backup file with upgrade.

Open Caveats

The following table lists the Open bugs for Cisco DCNM, Release 10.3(1).

Caveat ID Number	Description
CSCvf22408	Inconsistency in the display of graph and table data in the Performance Monitoring pages.
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.
CSCvf39678	The OVA upgrade script will not terminate normally; it gets stuck on error.
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.
CSCvf66656	Unable to start the Endpoint Locator feature for fabric switch sending color characters



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:

Cisco DCNM Documentation Roadmap

This section describes and provides links to the user documentation available for Cisco Data Center Network Manager (DCNM), Release 10.4(2). To find a document online, use one of the links in this section

Table 14: Cisco DCNM 10.4(2) Documentation Roadmap

Document Title	Description
Cisco DCNM Release Notes, Release 10.4(2)	Provides information about the Cisco DCNM software release, open caveats and workaround information.
Cisco DCNM Fundamentals Guide, Release 10.4(2)	• Use Roles of Cisco DCNM • Features of Cisco DCNM Web Client • Descriptions of GUI and capabilities of Cisco DCNM-SAN. • Monitoring network and performance.
Cisco DCNM Online Help	Provides Cisco DCNM Web Client user interface and field descriptions.

Document Title	Description
Cisco DCNM Installation Guide, Release 10.4(2)	• System requirements. • Pre-installation tasks. • Installing Cisco DCNM. • Upgrading Cisco DCNM.
Cisco DCNM Licensing Guide, Release 10.x	Describes the procedure used to generate, install, and assign a Cisco Data Center Network Manager (DCNM) license.
Software Upgrade Matrix for Cisco DCNM	Lists the software upgrade paths that are supported for DCNM.
Cisco DCNM Compatibility Matrix, Release 10.4(2)	Lists the Cisco Nexus and the Cisco MDS platforms and their software releases that are compatible with Cisco DCNM.
Cisco DCNM API Reference	Provides information about the Media Controller APIs on Cisco DevNet.
Cisco Data Center Network Manager Open Source Licensing, Release 10.4(2)	Provides information about the Cisco Data Center Network Manager Open Source Licensing, Release 10.4(2).

Platform-Specific Documents

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

Cisco Nexus 1000V Series Switch Documentation

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

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

http://www.cisco.com/en/us/products/ps9670/tsd_products_support_series_home.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

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to:

dcnm-docfeedback@cisco.com.

We appreciate your feedback.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see What's New in Cisco Product Documentation.

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the What's New in Cisco Product Documentation RSS feed. RSS feeds are a free service.