



Cisco DCNM Release Notes, Release 10.0

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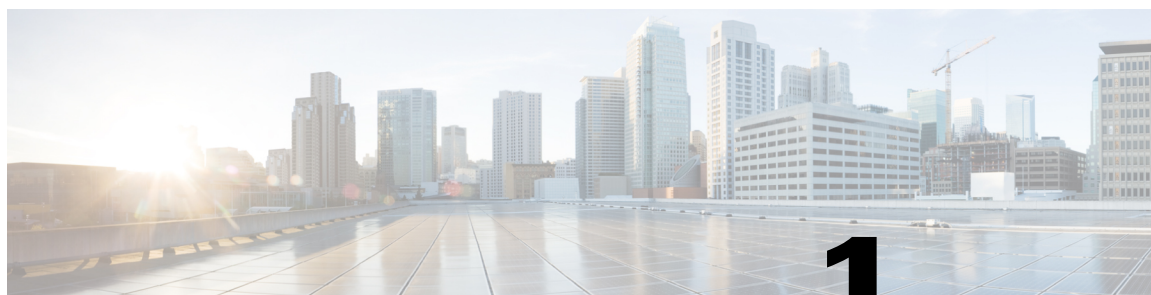
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CHAPTER 1

Overview of Cisco DCNM 10

First Published: May, 2016

Cisco® Data Center Network Manager (DCNM) 10 unifies and automates Cisco Nexus® and Cisco MDS 9000 Family multitenant infrastructure for data center management across Cisco Nexus 5000, 6000, 7000, and 9000 Series Switches in NX-OS mode using Cisco NX-OS Software as well as across Cisco MDS 9100 and 9300 Series Multilayer Fabric Switches, 9200 Series Multiservice Switches, and 9500 and 9700 Series Multilayer Directors. Cisco DCNM 10 lets you manage very large numbers of devices while providing ready-to-use management and automation capabilities plus Virtual Extensible LAN (VXLAN) overlay visibility into Cisco Nexus LAN fabrics.

DCNM 10 represents a significant infrastructure upgrade and departure from the earlier product release. Therefore, the Cisco DCNM Release numbering is advanced to 10.0(x) series from 7.2(x) series to signify this major update. The key aspects of this infrastructure update includes:

- HTML-5 based Graphical User Interface for the Cisco DCNM Web Client
- Built-in Database for Enterprise Deployments
- No Java Client dependency for LAN and LAN-fabric environments

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

Cisco DCNM provides a high level of visibility and control through a single web-based management console for Cisco Nexus Series Switches, Cisco MDS, and Cisco Unified Computing System (UCS) products. During the DCNM installation, you can choose install applications related to Unified Fabric only for Unified Fabric-mode installations. Cisco DCNM also includes Cisco DCNM-SAN client functionality. From Cisco DCNM Release 10.0(x), DCNM-LAN thick client is not supported. However, most of salient features are migrated and the operations can be performed from the Cisco DCNM Web Client.

From Cisco DCNM Release 10.0(1), Selective High Availability feature for DCNM appliances (OVA/ISO) is not supported. Instead, Cisco DCNM supports Native High Availability for DCNM appliances (OVA/ISO), a high availability solution for all the applications in the appliance without any need for external dependencies.

Cisco DCNM, Release 10.0(x), is a unified release for managing LAN, SAN, and scalable fabrics, including scalable data center 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 10.0(x). Use this document in combination with the documents listed in [Related Documentation](#), on page 33.

**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
May 2016	Published Release Notes for Cisco DCNM Release 10.0(1)



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, page 3](#)
- [Deployment Best Practices for Cisco DCNM, Release 10, page 6](#)
- [Deployment Best Practices for Cisco DCNM, Release 10.3\(1\), page 8](#)
- [Installation Notes for Cisco DCNM, Release 10, page 9](#)

System Requirements for Cisco DCNM, Release 10

This chapter includes the following sections:

Java Requirements

The Cisco DCNM Server is distributed with JRE 1.7.0_72 or later. The Cisco DCNM installer installs JRE 1.7.0_72 into the following directory:

```
DCNM_root_directory/java/jre1.7
```

Cisco DCNM SAN client and DM client is supported on JRE 1.7.0_76

Server Requirements

Cisco DCNM Release 10 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 6.3, 6.4, 6.6 and 7.0
- OVA and ISO with integrated operating system

Cisco DCNM Release 10 supports the following databases:

- Oracle 10g, Oracle 11g 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 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 and PostgreSQL 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 supports the running of the Cisco DCNM server on the following hypervisors:

- VMware ESXi 5.1
- VMware vCenter 5.1
- VMware ESXi 5.5
- VMware vCenter 5.5
- VMware ESXi 6.0
- VMware vCenter 6.0



Note vCenter server is mandatory to deploy the Cisco DCNM 10.1 OVA Installer.

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

Table 2: Server Resources for LAN 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
Dual-core CPUs, 2 GHz (or faster)	Quad-core CPUs, 2 GHz (or faster)	Quad-core CPU, 2 GHz, each core with two sockets
8-GB memory, 80-GB free hard disk	12-GB memory, 100-GB free hard disk 2 servers, LAN or SAN federation	12GB memory, 100-GB free hard disk 2 servers, Federation for SAN
Oracle 10g, Oracle11g Standard or Enterprise, Oracle 12c, PostgreSQL 9.4.5	Oracle11g Standard or Enterprise, Oracle 12c, PostgreSQL 9.4.5	Native-HA PostGreSQL, Oracle 11g standard or Enterprise, Oracle12c, 11g 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)	2 GB
CPU speed	2.16 GHz (or faster) with one dual-core processor or two single-core processors
Disk space (free)	4 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 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	12-GB memory, 100 GB

Browsers

Web browsers qualified for use with Cisco DCNM include Internet Explorer Version 11.0 and Firefox Version 38.0.

Other Supported Software

The following table lists other software supported by Cisco DCNM, Release 10.

Component	Minimum Requirements
Security	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Cisco Network Registrar 8.2
CentOS 6.6	OVA/ISO Installers

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

Deployment Best Practices for Cisco DCNM, Release 10

Keep the following guidelines in mind when deploying Cisco DCNM:

- If you deploy Oracle database:
 - Deploy an Oracle database on a separate server from the Cisco DCNM application server.

- Deploy an Oracle database when managing production or mission-critical environments.
- If you plan to use an Oracle 11g or Oracle 12c database, configure the Oracle database as follows:
 - Increase the number of sessions and processes to 150 each from the default of 50.
 - Increase the number of open cursors to 1000 from the default of 300.
- You must change the default setting by performing the following steps:



Note The password for the database expires after 180 days.

1 Log in to the Oracle database.

2 Enter the commands, as shown in this example:

```
SQL> GRANT CONNECT,RESOURCE,UNLIMITED TABLESPACE TO username IDENTIFIED by password;
Grant succeeded.
SQL> select username,password from dba_users where username='username';
SQL> ALTER PROFILE DEFAULT LIMIT
2 FAILED_LOG_ATTEMPTS UNLIMITED
3 PASSWORD_LIFE_TIME UNLIMITED;
Profile altered.
SQL> EXIT
```

- Network Time Protocol
 - We recommend that the Cisco DCNM server run the Network Time Protocol (NTP) to synchronize its clock with those of the managed devices.
- General Guidelines
 - Do not deploy Cisco DCNM when network latency is more than 50 ms from the switch management subnet to the Cisco DCNM server and Cisco DCNM database.
 - Deploy Cisco DCNM on high-performance tier storage (2 to 4 ms response time).
 - Create users with the same password digest and encryption algorithm in the device (for example, Digest, MD5) and encryption algorithm (for example, DES). Cisco DCNM will not authenticate the devices with different digest and encryption passwords.
 - Deploy Cisco DCNM-SAN in a federation configuration when either of the following conditions is met:
 - The switch count exceeds 150 switches
 - The port count exceeds 15,000 connected ports for every management server
- Windows Operating System
 - During the initial installation, disable all security and antivirus tools that are running on your Windows servers.
 - Do not run any other management applications on the Cisco DCNM server or the Cisco DCNM database server.
- Virtual Machines

- When Cisco DCNM is deployed as a virtual machine, do not share CPU and memory resources with other virtual machines on the virtual host, and the data store with other virtual machines.
- CPU and memory resource must be reserved for virtual machines.

Deployment Best Practices for Cisco DCNM, Release 10.3(1)

Keep the following guidelines in mind when deploying Cisco DCNM:

- If you deploy Oracle database:
 - Deploy an Oracle database on a separate server from the Cisco DCNM application server.
 - Deploy an Oracle database when managing production or mission-critical environments.
 - If you plan to use an Oracle 11g or Oracle 12c database, configure the Oracle database as follows:
 - Increase the number of sessions and processes to 150 each from the default of 50.
 - Increase the number of open cursors to 1000 from the default of 300.
- You must change the default setting by performing the following steps:



Note The password for the database expires after 180 days.

- 1 Log in to the Oracle database.
- 2 Enter the commands, as shown in this example:

```
SQL> GRANT CONNECT,RESOURCE,UNLIMITED TABLESPACE TO username IDENTIFIED by password;
Grant succeeded.
SQL> select username,password from dba_users where username='username';
SQL> ALTER PROFILE DEFAULT LIMIT
2 FAILED_LOG_ATTEMPTS UNLIMITED
3 PASSWORD_LIFE_TIME UNLIMITED;
Profile altered.
SQL> EXIT
```

- Network Time Protocol
 - We recommend that the Cisco DCNM server run the Network Time Protocol (NTP) to synchronize its clock with those of the managed devices.
- General Guidelines
 - Do not deploy Cisco DCNM when network latency is more than 50 ms from the switch management subnet to the Cisco DCNM server and Cisco DCNM database.
 - Deploy Cisco DCNM on high-performance tier storage (2 to 4 ms response time).
 - Create users with the same password digest and encryption algorithm in the device (for example, Digest, MD5) and encryption algorithm (for example, DES). Cisco DCNM will not authenticate the devices with different digest and encryption passwords.

- Deploy Cisco DCNM-SAN in a federation configuration when either of the following conditions is met:
 - The switch count exceeds 150 switches
 - The port count exceeds 15,000 connected ports for every management server
- Windows Operating System
 - During the initial installation, disable all security and antivirus tools that are running on your Windows servers.
 - Do not run any other management applications on the Cisco DCNM server or the Cisco DCNM database server.
- Virtual Machines
 - When Cisco DCNM is deployed as a virtual machine, do not share CPU and memory resources with other virtual machines on the virtual host, and the data store with other virtual machines.
 - CPU and memory resource must be reserved for virtual machines.

Installation Notes for Cisco DCNM, Release 10

The following installation notes apply to Cisco DCNM, Release 10:

- The Cisco DCNM Installer includes the Cisco DCNM server SAN client, Device Manager, SMI-S provider, PostgreSQL 9.4.5, and Strawberry Perl Version 5.10.
- The Cisco DCNM virtual appliance includes the Cisco DCNM server 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, 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>.



New Features and Enhancements

Cisco Data Center Network Manager (DCNM), Release 10.0(x) includes the new features, enhancements, and hardware support that are described in the following section:

- [New Features and Enhancements in Cisco DCNM, Release 10.0\(1\)ST\(1\), page 11](#)
- [New Features and Enhancements in Cisco DCNM, Release 10.0\(1\)DP1, page 12](#)
- [New Features and Enhancements in Cisco DCNM, Release 10.0\(1\), page 12](#)
- [Supported Upgrade Path to Cisco DCNM Release 10.0, page 15](#)

New Features and Enhancements in Cisco DCNM, Release 10.0(1)ST(1)

Cisco DCNM, Release 10.0(1)ST(1) is a POAP template (.zip) file release. You can download the Cisco-defined templates from <https://software.cisco.com/download/release.html>.

Cisco DCNM, Release 10.0(1)ST(1), includes the new features, enhancements, and hardware support that are described in the following section:

Cisco-defined DFA and VXLAN EVPN POAP Templates

From Cisco DCNM POAP Release 10.0(1)ST(1), Cisco-defined DFA and VXLAN POAP templates are provided as a separate download on the official Cisco website. These templates are compatible for use with the DCNM Virtual Appliance (OVA or ISO) for use with Nexus 2000, Nexus 5000, Nexus 6000, Nexus 7000, and Nexus 9000 Series switches.

You can download the Cisco-defined templates from <https://software.cisco.com/download/release.html>.

For instructions on how to download and install POAP templates, refer to *Cisco DCNM Installation Guide, Release 10.0(x)*.

New Features and Enhancements in Cisco DCNM, Release 10.0(1)DP1

Cisco DCNM, Release 10.0(1)DP1 is a device pack release. The device pack is a modular installation that can be applied on Cisco DCNM Release 10.0(1).

The device pack adds support for the following Cisco Nexus switches to DCNM 10.0(1).

Cisco Nexus 9000 Series Switches Chassis:

- N9236-C
- N9K-9372TX-E
- N9K-C92304QC

Cisco Nexus 9000 Series Switches Line Card:

- N9K-X9432C-S

For information about installing and uninstalling device packs for Cisco DCNM, refer to *Cisco DCNM Fundamentals Guide, Release 10*.

New Features and Enhancements in Cisco DCNM, Release 10.0(1)

Cisco DCNM, Release 10.0(1), includes the new features, enhancements, and hardware support that are described in the following section:

Native High Availability

From Release 10.0(1), Cisco DCNM appliances (OVA/ISO) allows you to manage Switches with an Active-Standby DCNM pair. This new form of high-availability mechanism leverages the replication capabilities of the built-in PostgreSQL database. At any given time, the DCNM runs only on the Active node. The Standby node synchronizes its database and file system at regular intervals. When the Active node fails, the Standby node becomes active. This HA mechanism also eliminates the external dependency on the Oracle database for enterprise setups.

Multi-fabric support

Cisco DCNM encapsulates and defines the properties of the Fabric, and binds all the Leaf/Spine/Border Leaf/Edge Router and other entities that fall into the purview of the Fabric. In Cisco DCNM Release 10.0(x), the multi-fabric feature is enabled for fabrics of different encapsulation types, such as FabricPath and VXLAN fabric. All the encapsulation types can exist together and the fabric-level consistency can be validated.

Web Client Interface on HTML 5

From Release 10.0(1), Cisco DCNM adapted HTML 5 for the Web Client. It also enables consolidated topology views and simplifies menus.

The new topology allows you to arrange the menu bar dynamically

VxLAN Support for Cisco Nexus

Cisco Nexus 5600 Series, Cisco 7000 Series and Cisco Nexus 9000 Series switches (in standalone mode) can be identified in a VxLAN topology by marking the VxLAN Tunnel End Point (VTEP) with a different icon. VxLAN support allows you to perform the following:

- Visualization of VxLAN topology. This is available for Cisco Nexus 5600 Series, Cisco 7000 Series and Cisco Nexus 9000 Series switches (in standalone mode). The VTEPs are marked with a different icon.
- Search the VTEP devices based on Visual Networking Index (VNI) or multicast address.
- Display VNI, multicast address, mapped VLAN and VNI status in tabular format for a given VNI or multicast address.
- Highlight mismatch in multicast address configuration for a given VNI.
- Display active peers of VTEP for a given VNI.
- Display all VNIs, multicast addresses, VNI statuses, and mapped VLANs of a particular VTEP in the switch inventory window.

Multi-Site Manager

From Cisco DCNM Release 10.0(1), Multi-Site Manager (MSM) feature allows you to perform the following:

- monitor the overall health of the switches (inside SAN and LAN Fabric) in each site
- identifies which DCNM Server (site) is managing a given switch
- identifies the upstream LAN switch of a given host/virtual machine
- identifies which LAN switches have active VxLAN segment

SAN Management

From Release 10.0(1), Cisco DCNM allows you to access the following SAN features from the Cisco DCNM Web Client.

- Zoning
- Device Alias
- Port Monitoring
- Switch Credentials Management

Config Archive

From Cisco DCNM Release 10.0(1), Cisco DCNM **Web Client > Configure > Backup > Switch Configuration > Archive Jobs > Archive Jobs** supports job scheduling for selected list of devices. You can archive the device configuration in the file server. Cisco DCNM allows you to copy and restore the configurations and supports Golden Backup.

PMon policy management for MDS9000 Series SAN Switch and Fabric

Cisco DCNM Release 10.0(1) provides five templates to customize and save user-defined policies—Normal, Aggressive, Most Aggressive, Default and Slowdrain. These policies will be saved in the DCNM database.

You can select the policy to push to the selected fabric or switch with desired port type. The system-defined templates cannot be modified. However, you can edit, save, and delete the user-defined policies.

vPC workflow

The virtual port channel (vPC) feature enables you to view the links that are physically connected to different devices as a single port channel. The Cisco DCNM Web Client helps you to configure and identify the inconsistent vPCs, and resolve the inconsistencies in each vPC.

From the Cisco DCNM **Web Client > Configure > Deploy > VPC** to configure the vPC.

From the Cisco DCNM **Web Client > Monitor > LAN > VPC > vPC Consistency** to view the vPC consistency status.

Image Management

From Release 10.0(1), Cisco DCNM allows you to manage the images on the switches through Cisco DCNM **Web Client > Configure > Image Management**.

You can perform the following:

- Upgrade [ISSU]
- Patch [SMU]
- Maintenance Mode [GIR]

You can also upload the images and save it on the Cisco DCNM **Web Client > Configure > Image Management > Repositories**.

Templates usage with JavaScript and Switch CLI output Parsing

In addition to the Java script functionality, Cisco DCNM Release 10.0(1) allows you to execute a CLI on the Switch. The CLI output is parsed to aid in automation of the common tasks such as:

- Generating IPv6 address- based on the allotted Ipv4 address range
- Substring search or matching
- Math and substring manipulations

To use JavaScript from within a template, append your custom java script function call to the already packaged JavaScript file (TemplateScripts.js). This file is available on the DCNM 10 Server in the template repository path under:

/usr/local/cisco/dcm/dcnm/data/templates/

Solution PoAP Templates for VXLAN and Fabricpath

From Cisco DCNM Release 10.0(1), Cisco provides you a set of defined templates to aid in POAP operations. You can download Cisco-defined templates from <https://software.cisco.com/download/release.html>.

For instructions on how to download and install POAP templates, refer to *Cisco DCNM Installation Guide, Release 10.0(x)*.

New Hardware Support

The following hardware are supported in Cisco DCNM Release 10.0(1).

Hardware	Part Number
92160YC-X—High performance 1RU box, 48 1/10/25-Gb host ports	N9K-C92160YC-X
9272Q—High-performance, 72-port/40-Gb fixed switching 2RU box. With 5.76 Tbps of bandwidth	N9K-C9272Q
9372-PXE—48 1/10-Gbps (SFP+) ports and 6 Quad SFP+ (QSFP+) uplink port, 1 RU box	N9K-C9372PX-E
8-port 100-Gigabit CFP2 I/O module	N9K-X9408PC-CFP2
100 Gigabit Ethernet uplink ports N9K-M4PC-CFP2	N9K-M4PC-CFP2

Supported Upgrade Path to Cisco DCNM Release 10.0

The following table lists the upgraded path supported on the Cisco DCNM Releases.

Table 5: Upgrade Path for Cisco DCNM, Release 10.0(1)

Cisco DCNM Installer version	Release from which you can upgrade
Cisco DCNM 10.0(1) ISO/OVA	<ul style="list-style-type: none"> • Cisco DCNM, Release 7.2(2) • Cisco DCNM, Release 7.2(2a) • Cisco DCNM, Release 7.2(3)
Cisco DCNM 10.0(1) EXE/BIN	<ul style="list-style-type: none"> • Cisco DCNM, Release 7.2(2) • Cisco DCNM, Release 7.2(2a) • Cisco DCNM, Release 7.2(3)



Supported Cisco Platforms and Software Versions

For information about the software platforms and versions that the Cisco Data Center Network Manager (DCNM) Release 10.0 supports, see the [Cisco DCNM Compatibility Matrix, Release 10.0](#).



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.



Supported Hardware

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

- [Hardware Supported in Cisco DCNM, Release 10.0\(1\), page 19](#)

Hardware Supported in Cisco DCNM, Release 10.0(1)

The following tables list the products and components supported in Cisco DCNM, Release 10.0(1).

Table 6: Cisco MDS 9000 Family

Product/Component	Part Number
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 32-Port 2-Gbps Fibre Channel Switching Module	DS-X9032
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

Product/Component	Part Number
Cisco MDS 9000 48-Port 8-Gbps Fibre Channel Switching Module	DS-X9248-96K9
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 48-Port 10-Gigabit Fibre Channel over Ethernet (FCoE) Module with SFP LC connectors	DS-X9848-480K9
Cisco MDS 9000 48-port 16-Gbps Fibre Channel Switching Module with SFP LC connectors	DS-X9448-768K9
Cisco MDS 9000 4/44-Port Host-Optimized 8-Gbps Fibre Channel Switching Module	DS-X9248-48K9
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 9000 Family 14-Port Fibre Channel and 2-port Gigabit Ethernet Module	DS-X9302-14K9
Cisco MDS 9000 Family 16-Port Storage Services Node (SSN-16)	DS-X9316-SSNK9
Cisco MDS 9000 32-Port Storage Services Module	DS-X9032-SSM
Cisco MDS 9000 18/4-Port Multiservice Module (MSM-18/4)	DS-X9304-18K9
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 9250i Multilayer Fabric Switch	DS-9250I-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 9500 Series Supervisor-1 Module	DS-X9530-SF1-K9
Cisco MDS 9506 Multilayer Director	DS-C9506
Cisco MDS 9509 Multilayer Director	DS-C9509

Product/Component	Part Number
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

Table 7: Cisco Nexus 9000 Series Switches

Product/Component	Part Number
92160YC-X - High performance 1RU box, 48 1/10/25-Gb host ports	N9K-C92160YC-X
9272Q - High-performance, 72-port/40-Gb fixed switching 2RU box, 5.76 Tbps of bandwidth	N9K-C9272Q
9372-PXE - 48 1/10-Gbps (SFP+) ports and 6 Quad SFP+ (QSFP+) uplink port, 1 RU box	N9K-C9372PX-E
Cisco Nexus 9500 Modular Chassis	
Cisco Nexus 9504 Switch	N9K-C9504
Cisco Nexus 9508 Switch	N9K-C9508
Cisco Nexus 9516 Switch	N9K-C9516
Cisco Nexus 9000 Series 40GE Modules	
N9K 32p 40G Ethernet Module	N9K-X9432PQ
36p 40G Ethernet Module	N9K-X9636PQ
Cisco Nexus 9000 Series 10GE Fiber and Copper Modules	
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
8-port 100-Gigabit CFP2 I/O module	N9K-X9408PC-CFP2
100 Gigabit Ethernet uplink ports	N9K-M4PC-CFP2
Cisco Nexus 9000 Series GEM Module	
N9K 40G Ethernet Expansion Module	N9K-M12PQ
N9K 40G Ethernet Expansion Module	N9K-M6PQ

Product/Component	Part Number
Cisco Nexus 9300 Fixed Switches	
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
Cisco Nexus 9332PQ Switch	N9K-C9332PQ
Cisco Nexus 93128TX Switch	N9K-C93128TX

Table 8: 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
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

Product/Component	Part Number
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
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

Product/Component	Part Number
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 9: 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 10: 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=

Product/Component	Part Number
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 11: 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 12: Cisco Nexus 3000 Series Fabric Extenders

Product/Component	Part Number
Nexus 3132 Chassis	N3K-C3132Q-40GX
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-T Switch	N3K-C3064TQ-10GT
Cisco Nexus 3064-X Switch	N3K-C3064PQ-10GX
Cisco Nexus 3132Q Switch	N3K-C3132Q-40GE
Cisco Nexus 3172PQ Switch	N3K-C3172PQ-10GE
Cisco Nexus 3548 Switch	N3K-C3548P-10G

Table 13: 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

Table 14: Cisco Nexus 1000V Series Switch

Product/Component	Part Number
Cisco Nexus 1010 Virtual Services Appliance	N1K-C1010
Cisco Nexus 1010-X Virtual Services Appliance	N1K-C1010-X
Cisco Nexus 1110-S Virtual Services Appliance	N1K-1110-S
Cisco Nexus 1110-X Virtual Services Appliance	N1K-1110-X



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 10.0\(1\)ST1, Caveats, page 27](#)
- [Cisco DCNM, Release 10.0\(1\), Caveats, page 30](#)

Cisco DCNM, Release 10.0(1)ST1, Caveats

Resolved Caveats

The following table lists the Resolved bugs for Cisco DCNM, Release 10.0(1)ST(1).

Caveat ID Number	Description
CSCuw69348	Need support for multiple NTP servers
CSCuy77200	'clock protocol ntp' cause parsing error
CSCuz03297	POAP templates do not set timezone
CSCuz04254	DCNM - Not allowed to select platform type
CSCuz39025	Inconsistent show vlans when doing "show run" leads to POAP diff
CSCuz40427	Vxlan IS-IS underlay: medium P2P missing on numbered links (Nexus 5K)
CSCuz40704	Vxlan IS-IS underlay: medium P2P missing on numbered links (Nexus 7K)
CSCuz44998	N7k BL and BS -L2 PO and L2 phy int port-l2dci cmd needs to be removed
CSCuz47423	IPFabric BorderPELeaf: provide option to set BFD for the MPLS global IGP
CSCuz50660	Diff Conformance: Interface loopback diff (shutdown)
CSCuz56420	IPFabric_VDC_BorderPELeaf_v02: Diff Conformance
CSCuz70502	Diff conformance for loopback interfaces on N56XX spine node (IP Fabric)
CSCuz71137	Remove Vpc peer-gateway
CSCuz79229	Boolean Mandatory values show red (mandatory) asterisk next to checkbox
CSCuz89145	Base_N7K_AdminVDC_10_0_1a copp policy
CSCuz89147	10.0.01a: questions on rmon event configuration
CSCuz89154	IPFabric_VDC_BorderPELeaf 1a -impacts N7K with MPLS handoff
CSCuz89427	"feature ISIS" enabled when OSPF is used
CSCuz89431	MTU qos policy "jumboAndFCOE" is not attached
CSCuz89435	vpc defintion and description inconsistency
CSCuz93328	Diff conformance for "no feature telnet"
CSCva17203	TME feedback page vpc defintion and description inconsistency
CSCva17210	Vxlan IS-IS underlay: medium P2P should always be there
CSCva32158	N6k: see diffs for loopback interfaces except loopback 0

Caveat ID Number	Description
CSCva40776	remove 'fabric forwarding port-l2dci' from IPFabric N6k templates
CSCva40777	POAP: "feature ospf" missing in templates
CSCva40837	POAP: "switchback" needs to be removed at the end of vrf-tenant-profile
CSCva42467	POAP: "VPC Keep-alive IP Netmask Length" field mandatory in vdc BS
CSCva55999	Fabric_N7K_BorderLeaf_10_0_1_ST_0_10 has two manageability tabs
CSCva56576	\$\$OU_BASE\$\$ missing in N7k POAP leaf templates
CSCva57692	Fabric Templates don't have triggers to enable/disable listed feature.
CSCva57886	N7K:CLI errors in backbone VLAN configs in Spine template
CSCva59810	N7k:NTP and AAA syntax error in POAP in FP
CSCva64316	Only single instance of router bgp config is required in 7K templates
CSCva65127	feature-set fabric, feature fabric forwarding missing on spine
CSCva70700	POAP: All interfaces of vdc Edge using default mtu
CSCva70913	POAP:- vdc BL template : BL-ER PC subintf cfigs error
CSCva74742	POAP: VDP configs on Leaf template
CSCva75563	Qos configs getting pushed for mentioned Fabric VDC POAP Templates.
CSCva83695	Username-Password syntax error in fabric BorderPE templates
CSCva88878	POAP: Add port number for vCenter connections
CSCva96771	POAP: switchport CLI need in some N9K

Open Caveats

The following table lists the Open bugs for Cisco DCNM, Release 10.0(1)ST(1).

Caveat ID Number	Description
CSCva24840	Extra exits showing up in diff file
CSCvb00853	Diff detected after POAP on N9K

Caveat ID Number	Description
CSCva70704	diff on DCNM for few vdc's showing error
CSCux96340	Checkpoint diff not working with FCOE on 5k, 6k and 7k switches.
CSCuz53425	DCNM POAP: Support for redundant AAA/DNS and Syslog
CSCva88878	POAP: Add port number for vCenter connections
CSCva32162	BGP configs in conformance diff after auto-config on fp/evpn leaves
CSCva30621	POAP: 1bzip Radius or TACACS config results in conformance diff
CSCuz39025	Inconsistent show vlans when doing "show run" leads to POAP diff
CSCva38833	vPC definition & description inconsistency between FP & EVPN templates
CSCva87665	AAA diff generated after POAP
CSCva89496	Backbone VLAN syntax errors with backbone mode BDI.
CSCva95275	N7k: FP templates missing power supply options.
CSCva85167	Inconsistent show vlans when doing "show run"
CSCva90627	vlan 1 is not allowed to be configured on Admin VDC

Cisco DCNM, Release 10.0(1), Caveats

Resolved Caveats

There are no resolved caveats in this release.

Open Caveats

The following table lists the Open bugs for Cisco DCNM, Release 10.0(1).

Bug ID	Headline
CSCul88797	Connection between Fex and N1k not shown for 2 layer vPC
CSCuo15884	Topology view: Incorrect Discovery Port
CSCux59690	DCNMP: Interfaces are not getting discovered in Hafinum switch

Bug ID	Headline
CSCuz30546	Upg: SAN reports missing from View page on upgraded setup
CSCuz35483	UI grayed out after adding a network without any Org or Parts
CSCuz40448	NVT: RP Array in n9k-spine template is not reflecting the change
CSCuz45124	Spine hostname and interface tab info missing in POAP definitions
CSCuz45415	ova upgrade:"error: cannot contact server\" on localtime for standby dcnm
CSCuz46501	Support for border-leaf and border-spine in Fabric Plan Provisioning
CSCuz48783	Top-Down: Populate Vlan operation picking from incorrect vlan pool
CSCuz49581	MSM: RBAC not supported for Def_SAN scope in MSM
CSCuz50440	Patch:After removal of patch, Unable to login to DCNM due to \□Auth Fail\□
CSCuz52758	DCNM (10.0): OU_BASE missing on templates after upgrade
CSCuz55165	Dashboard- >Compute/Storage topology print/export function broken.
CSCuz56719	Custom report generation using Visio topology throws exception.
CSCuz60513	DCNM 10.0(1): Import template does not set POAP and Publish option
CSCuz76124	DCNM-10.0:delete the template from GUI does not remove it in file system
CSCuz79229	Boolean Mandatory values show red (mandatory) asterisk next to checkbox
CSCuz99974	DCNM DB lost during upgrade with non-default install location
CSCva11032	EMC-ENTRANCE:Upgrade from 723 to 10x with postgres will fail on RHEL 6.4



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, page 33](#)
- [Platform-Specific Documents, page 34](#)
- [Documentation Feedback, page 35](#)
- [Obtaining Documentation and Submitting a Service Request, page 35](#)

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 15: 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)	<ul style="list-style-type: none">• 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)	<ul style="list-style-type: none"> • 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.

