Cisco Prime DCNM Release Notes, Release 7.1(1)

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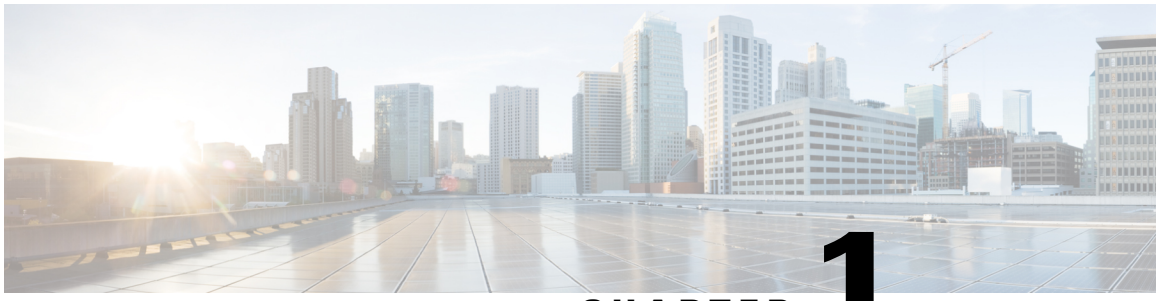


CHAPTER 1

Overview

Release Date: December 15, 2014
Part Number: OL-31385-01
Current Release: 7.1 (1)

Cisco Prime Data Center Network Manager (DCNM) is a management system for the for Cisco NX-OS based Unified Fabric, including LAN and Storage (SAN) functionality. It enables you to provision, monitor, and troubleshoot the data center network infrastructure. It provides visibility and control of the unified data center so that you can optimize for the quality of service (QoS) required to meet service-level agreements.

Cisco Prime DCNM, Release 7.1 (1) is a unified release for managing LAN, SAN and scalable fabrics, including scalable Data Center fabrics in the NX-OS driven Data Center environment.

This document provides the release notes for Cisco Prime Data Center Network Manager (DCNM), Release 7.1 (1). Use this document in combination with the documents listed in the Related Documentation section.

Note Release notes are sometimes updated with new information about restrictions and caveats. See the following website for the most recent version of the Cisco Prime DCNM Release Notes: Cisco DCNM Release Notes.

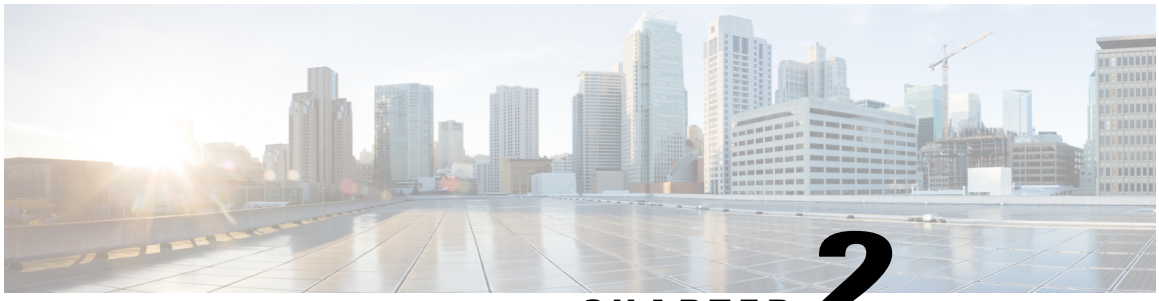
The following table shows the online change history for this document.

Table 1: Online History Change

Part Number	Revision	Date	Description
OL-31385-01	A0	December 19, 2014	Created release notes for Release 7.1.(1)

Software Download Site

To download the Cisco DCNM 7.x software, go to www.cisco.com/go/dcnm and click Download Software.



CHAPTER 2

System Requirements

This section lists the tested and supported hardware and software specifications for Cisco DCNM server and client architecture. The application has been tested in English locales only. This section includes:

- Java Requirements
- Server Requirements
- Client Requirements
- Host Requirements
- Browsers
- Other Supported Software

Java Requirements

Cisco DCNM Server is distributed with Java JRE 1.7.0_72 or higher. The DCNM installer installs JRE 1.7.0_72 to the following directory: `DCNM_root_directory/java/jre1.7`.

Cisco DCNM Client is distributed with Java JRE 1.7.0_55.

Server Requirements

Cisco Prime DCNM, Release 7.1(1) supports running the Cisco DCNM server on these operating systems:

- Microsoft Windows 2008 R2 SP2 (64-bit only)
- Microsoft Windows 2012 R2
- Red Hat Enterprise Linux Release 5.6, 5.7
- Red Hat Enterprise Linux Release 6.3 and 6.4 (64-bit)

Cisco DCNM Release 7.1(1) supports the following databases:

- Oracle 10g, Oracle11g Express (XE), Standard, and Enterprise Editions, and Oracle 11g Real Application Clusters (RAC)
- PostgreSQL 8.4
- Oracle 12c Enterprise Edition (Conventional)–Non-pluggable Installation

Note Cisco DCNM Release 7.1(1) does not support Oracle 12c pluggable database version installation.

- Oracle 12c RAC–Non-pluggable installation

Note Cisco does not recommend using Postgre SQL for production environments. Use PostgreSQL for small, non-production or lab environments only.

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

For deployment best practices, see the Deployment Best Practices.

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

Cisco Prime DCNM, Release 7.1(1) supports running the Cisco DCNM server on the following hypervisor:

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

Cisco DCNM Server resources for a LAN and SAN environment are summarized in the table below.

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**
Dual Core CPUs, 2 GHz (or faster)	Quad Core CPUs, 2 GHz (or faster)
8-GB memory, 80-GB free hard disk	• 12-GB memory, 100-GB free hard disk • 2 servers, LAN or SAN federation
Oracle 10g, Oracle11g Standard or Enterprise, Oracle 12c	Oracle11g Standard or Enterprise, Oracle 12c

Note Although it is not mandatory, we recommend that you register the server system with DNS servers.

Client Requirements

Cisco DCNM clients 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

Some Cisco DCNM features require a license. Before you can use the licensed features, you must install the Cisco DCNM license.

Note Ensure that you set the correct time zone value on the client system's clock (for example, UTC). Otherwise, Cisco DCNM-LAN cannot manage the switch properly.

Host Requirements

The following table lists the server resource requirements for deploying Cisco DCNM 7.1.x Virtual Appliance (OVA).

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 in case of thick provisioning	12-GB memory, 100 GB in case of thick provisioning

Browsers

Web browsers that support Adobe Flash 10 are qualified for use with Cisco DCNM. These include Internet Explorer, Firefox, and Safari.

Other Supported Software

The following table lists other software supported by Cisco DCNM Release 7.1.x.

Table 5: Database Server System Requirements

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 1.0 only.
DHCP Server	• Cisco Prime Network Registrar 8.2

In addition, Cisco DCNM supports the following types of events: EMC Call Home events, fabric change events, and events that are forwarded by traps and e-mail.

- Deployment Best Practices, page 6
- Installation Notes, page 7

Deployment Best Practices

Observe the following guidelines when deploying Cisco DCNM:

- 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.

- We recommend deploying Oracle11g or Oracle 12c for mission-critical production environments.

Note The password for the database expires after 180 days.

You must change this setting by using the following steps:

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 then 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 ms 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 one of the following conditions is met:
    - the switch count exceeds 150 switches, OR,
    - the port count exceeds 15,000 connected ports for every management server
- Windows Operating System
  - During the initial installation, disable all security and anti virus tools that are running on your Windows server.
  - 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.
  - When Cisco DCMM is deployed as a Virtual Machine, do not share the data store with other Virtual Machines.
  - CPU and Memory Resource must be reserved for Virtual Machines.

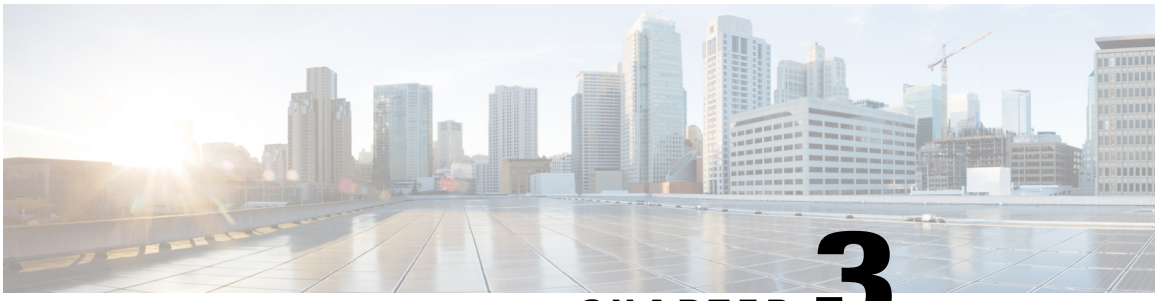
Installation Notes

The following installation notes apply to Cisco DCNM Release 7.1.x:

- The Cisco DCNM Installer includes the Cisco DCNM server and clients, Device Manager, SMI-S provider, PostgreSQL 8.4, and Strawberry Perl version 5.10.
- The Cisco DCNM virtual appliance includes the Cisco DCNM server and clients, Device Manager, PostgreSQL, Cisco XCP, OpenLDAP, RabbitMQ, DHCPD, all of which are installed on a 64-bit CentOS.
- The Cisco DCNM provides VxLAN Support for Cisco Nexus 6000 Series and Cisco 9000 Series switches. DCNM Release 7.1 (1) also supports GOLD enhancements and Configuration Archive Enhancements.
- Upgrade support is available from releases Cisco DCNM Release 6.3(2) and Cisco DCNM Release 7.0 (2) to Cisco DCNM Release 7.1 (1) .
- The SMI-S integration into DCNM is disabled for DCNM 7.1.1 Virtual Appliances (OVA and ISO images). However, it is available for RHEL and Windows DCNM 7.1.1 images.

  The SMI-S integration with storage arrays is available on all DCNM 7.1.1 images, including Open Virtual Appliances.

For information about installing Cisco DCNM Release 7.1 (1), see the Cisco DCNM Installation Guide. You can find this publication on Cisco.com at this location: Install and Upgrade Guides.



CHAPTER 3

New Features and Enhancements

Cisco DNCM Release 7.1(1) includes the new features, enhancements, and hardware support that are described in the following sections:

- New Features and Enhancements in Prime Cisco DCNM, Release 7.1(1), page 9

New Features and Enhancements in Prime Cisco DCNM, Release 7.1(1)

Cisco Prime DNCM Release 7.1(1) includes the new features, enhancements, and hardware support that are described in the following sections:

Border Leaf/Edge Router Auto-Configuration

This feature streamlines the Border Leaf/Edge Router auto-configuration. The auto-configuration automatically selects Border Leaf/Edge Router based on device pairing, load sharing algorithm and redundancy factor. The Border Leaf/Edge Router is notified after the pair is chosen and the partition extension configuration is available in network database. The POAP templates and Network profiles can be added. Border Leaf/Edge Router auto-configuration publishes the REST APIs orchestrator and third party application integration.

VxLAN Support for Nexus 6000 Series, Nexus 5600 Series, and Nexus 9000 Series Switches

Cisco Nexus 6000 Series and Nexus 9000 Series Switches (in standalone mode) can identify VxLAN topology by marking the VTEPs with a different icon. VxLAN support allows you to do the following:

- VxLAN topology visualization is available for Nexus 5600 Series, Nexus 6000 Series and Nexus 9000 Series switches (in standalone mode) – marking the VTEPs with different icon
- Search the VTEP devices based on VNI or multicast address
- Display VNI, multicast address, mapped VLAN, 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 VNI, multicast address, VNI status and mapped VLANs of the particular VTEP in switch inventory screen

Config sync on POAP

If you use POAP to configure the switches, this feature allows you to track the configuration changes made to the device after the initial POAP definition.

Multiple Orchestrators Support

From Cisco DCNM Web Client or using the REST API, this feature allows you to create a new Segment ID range, and provides the orchestrator ID. DCNM will associate the range with the specified orchestrator ID.

Auto- Configuration Deployment

This feature allows you to selectively push or clear configuration on devices for a network.

Three Tier Topology

DCNM supports the three-tier topology visualization for the Fabric dashboard consisting of super spines, spines and leaves.

Secure LDAP for Fabric

When you install DCNM ISO or OVA, the DCNM secure LDAP is configured during installation. By default, this supports LDAP (port 389), StartTLS (port 389) and LDAPS (port 636). Self-signed CA certificate and server certificate are generated with DCNM server name as CN (common name). No additional action is required to enable secure LDAP.

Multiple Mobility Domains with VLAN Translation

VLAN translation feature is a feature that upon ingress on a port, a user frame tagged with an original VLAN, also called “from” VLAN, will be mapped into a translated VLAN, also called “to” VLAN. The subsequent functionalities such as MAC learning and MAC lookup will be performed on the translated VLAN. On the other hand, a frame switched on the translated VLAN will be mapped to the original VLAN before egressing on a port. The VLAN translation is done on the per-port basis. When multiple mobility domains are supported on a leaf switch, in addition to leaf device-wide mobility domain, port level mobility domains are introduced. Each port can be configured with a mobility domain different from the device wide mobility domain.

DCNM ISO Packaging

The DCNM ISO virtual appliance has an operating system (CentOS 6.3) with DCNM. It also provides an option to install additional packages to manage scalable fabrics, including Cisco DFA on demand.

Advanced Feature Trial License

The Advanced Feature Trial License exists on the server after the initial installation and displays a filename and PID text of “30DayTrialLicense”. This provides 500 SAN and 500 advanced feature licenses without having to download or install a single file. This license will work for any licensable switch and expires after 30 days.

Config Archive Enhancement

This enhancement allows you to display a preview, show a configuration difference (diff) and add bookmarks for configuration differences.

Slow drain

DCNM provides an online slow drain diagnostics, and displays the list of devices with potential slow drain issues. The significance of the Slow Drain feature is as follows:

- Helps automate tedious manual troubleshooting. Troubleshooting that might have taken hours or days can be reduced to minutes.
- Automates collection/polling—On demand collection of slow drain related counters is available across Nexus and MDS Fibre Channel fabrics. The entire switch fabric data can be collected.
- Reduces false positives—The slow drain diagnostics fetches a list of host, storage, and switch ports, prioritized by slow drain severity by checking the rate of change in the counters.
- Visual representation—The statistics can be displayed in the bar chart format showing fluctuations in counters over the polling interval.
- User customizable—Provides symptom priority fields, that can be sorted to find specific devices.

EMC enhancement

DCNM enhances EMC call home messages and adds version specific information in call home message body.

Storage VDC for FCoE on Nexus 7706

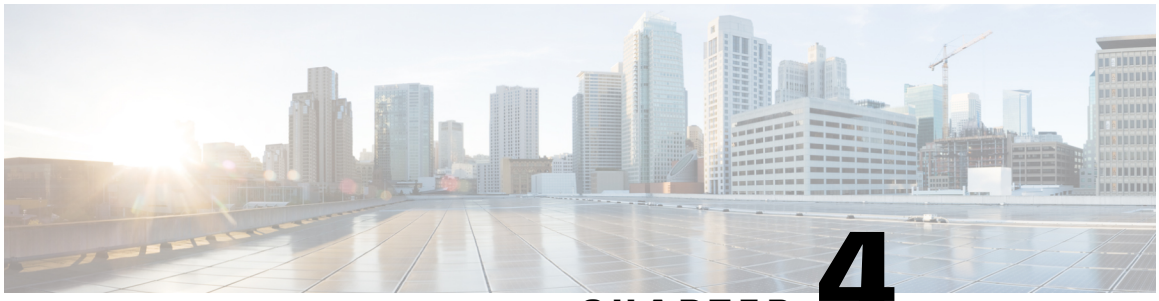
DCNM now supports Storage VDC on Nexus 7706 equipment. The Nexus 7706 FCoE support allows DCNM to discover Nexus 7706 Storage VDC as seed for SAN management. Nexus 7706 Storage VDC is managed as a fabric switch. After you install and enable the FCoE feature set, all the SAN management features are available from DCNM for Nexus 7706.

Orphan LUN

DCNM supports reporting a list of LUNs that are configured in the storage system, but not assigned any ports. After the initial storage discovery, you can navigate to the **Report Feature > Orphan LUN** to view the report. You can generate the adhoc reports or schedule to generate a recursive report at a specified time. The report can be exported as .html, .xls, or email formats for further analysis.

Storage System Capacity Trend

DCNM allows you to generate storage system capacity trend and storage pool level capacity trend. You can view the capacity trend for storage system on the Web Client, after the system collects data for more than two days.

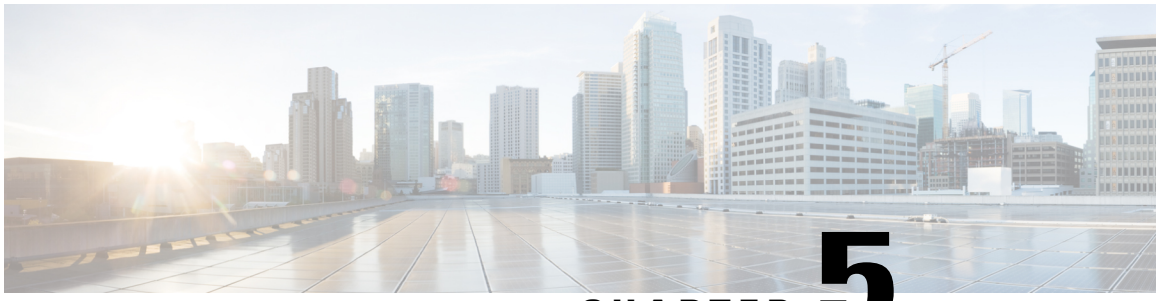


CHAPTER 4

Supported Cisco Platforms and Software Versions

For information about the software platforms and versions that Cisco DCNM supports, see the Cisco DCNM Release Compatibility Matrix.

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



CHAPTER 5

Hardware Supported

- Hardware Features Supported by Cisco DCNM Release 7.1 (1), page 15

Hardware Features Supported by Cisco DCNM Release 7.1 (1)

The following sections lists the products and components that Cisco DCNM Release 7.1 (1) supports.

- Cisco MDS 9000 Family, on page 15
- Cisco Nexus 9000 Series Switches, on page 17
- Cisco Nexus 7000 Series Switches, on page 18
- Cisco Nexus 6000 Series Switches, on page 20
- Cisco Nexus 5000 Series Switches, on page 20
- Cisco Nexus 4000 Series Switches, on page 21
- Cisco Nexus 3000 Series Fabric Extenders, on page 21
- Cisco Nexus 2000 Series Fabric Extenders, on page 21
- Cisco Nexus 1000V Series Switch, on page 22
- Catalyst 6500 Switches, on page 22

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

Product/Component	Part Number
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 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

Product/Component	Part Number
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
Cisco MDS 9513 Multilayer Director	DS-C9513
Cisco MDS 9706 Multilayer Director	DS-C9706
Cisco MDS 9710 Multilayer Director	DS-C9710 DS-9848-480-K9

Cisco Nexus 9000 Series Switches

Product/Component	Part Number
Nexus 9500 Modular Chassis	
Cisco Nexus 9504 Switch	N9k-C9504
Cisco Nexus 9508 Switch	N9k-C9508
Cisco Nexus 9516 Switch	N9k-C9516
Nexus 9000 Series 40GE Modules	
N9K 32p 40G Ethernet Module	N9K-X9432PQ
36p 40G ethernet module	N9K-X9636PQ
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
Nexus 9000 Series GEM Module	
N9K 40G Ethernet Expansion Module	N9k-M12PQ

Product/Component	Part Number
N9K 40G Ethernet Expansion Module	N9k-M6PQ
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

Cisco Nexus 7000 Series Switches

Product/Component	Part Number
Cisco Nexus 7000 1 F3 100G	N7K-F306CK-25
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 7000 F3-Series 6-Port 100G ethernet module	N7K-F306CK-25
Cisco Nexus 7004 chassis	N7K-C7004
Cisco Nexus 7000 F3-Series 12-Port 40G ethernet module	N7K-F312FQ-25
Cisco Nexus 7009 chassis	N7K-C7009
Cisco Nexus 7010 chassis	N7K-C7010
Cisco Nexus 7018 chassis	N7K-C7018
Cisco Nexus 7700 Supervisor 2 enhanced module	N77-SUP2E
Cisco Nexus 7706 chassis	N77-C7706-FAB2
Cisco Nexus 7710 chassis	N7K-C7710
Cisco Nexus 7718 chassis	N7K-C7718
Network Analysis Module NAM-NX1	N7K-SM-NAM-K9
Fabric module, Cisco Nexus 7009 chassis	N7K-C7009-FAB-2

Product/Component	Part Number
Fabric module, Cisco Nexus 7010 chassis	N7K-C7010-FAB-2
Fabric module, Cisco Nexus 7010 chassis	N7K-C7018-FAB-1
Fabric module, Cisco Nexus 7018 chassis	N7K-C7018-FAB-2
Fabric module, Cisco Nexus 7018 chassis	N7K-C7018-FAB-1
Cisco Nexus 7700 Enhanced 48-port 1/10 gigabit ethernet SFP+ I/O module (F2 Series)	N77-F248XP-23E
Fabric module, Cisco Nexus 7710 chassis	N77-C7710-FAB-2
Cisco Nexus 7700 F3-Series 48-Port Fiber 1 and 10G ethernet module	N77-F348XP-23
Cisco Nexus 7700 F3-Series 24-Port 40G Ethernet Module	N77-F324FQ-25
Fabric module, Cisco Nexus 7718 chassis	N77-C7718-FAB-2
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
8-Port 10-Gigabit Ethernet Module with XL Option (requires X2)	N7K-M108X2-12L
24-port 10-Gigabit Ethernet I/O module with XL option	N7K-M224XP-23L
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
6-port 40-Gigabit Ethernet I/O module with XL option	N7K-M206FQ-23L
2-port 100-Gigabit Ethernet I/O module with XL option	N7K-M202CF-22L
32-port 1- and 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 6000 Series Switches

Product/Component	Part Number
N6004X/5696 chassis **Note** This is re-branded to Nexus 5000 Series Switches Chassis (6004x re-branded)	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 EF CR Chassis	N6004X-M12Q
Cisco Nexus 6004 M20UP LEM	N6004X-M20UP
Cisco Nexus 6004P-96Q Switch	N6K-6004-96Q

Cisco Nexus 5000 Series Switches

Product/Component	Part Number
20 port UP LEM	N5696-M20UP
12 port 40G LEM	N5696-M12Q
4 port 100G LEM	N5696-M4C
N5000 1000 Series Module 6port 10GE	N5K-M1600(=)
N5000 1000 Series Mod 4x10GE 4xFC 4/2/1G	N5K-M1404=
N5000 1000 Series Module 8port 4/2/1G	N5K-M1008=
N5000 1000 Series Module 6port 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

Product/Component	Part Number
Version 2, Layer 3 daughter card	N55-D160L3-V2

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

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

Cisco Nexus 2000 Series Fabric Extenders

Product/Component	Part Number
Nexus 2348 Chassis	N2K-C2348TQ-10GE
Cisco Nexus 2000 IBM B22 Fabric Extender support	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

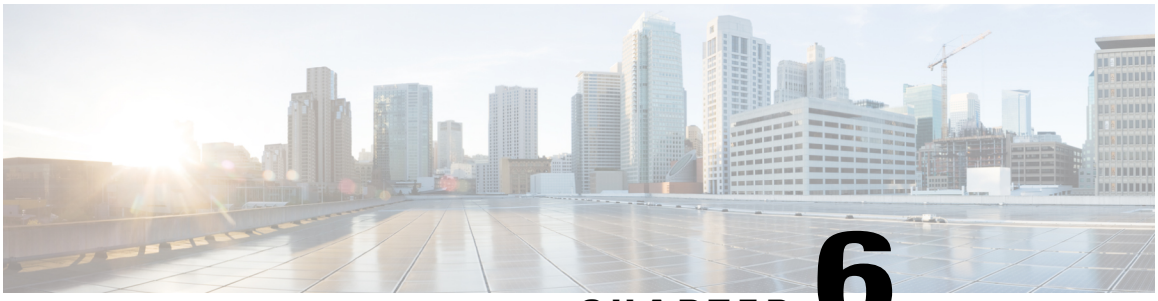
Product/Component	Part Number
Cisco Nexus 2248PQ Fabric Extender	N2K-C2248PQ-10GE
Cisco Nexus B22 Fabric Extender for HP	N2K-B22HP-P
Cisco Nexus B22 Fabric Extender for Fujitsu	N2K-B22FTS-P
Cisco Nexus B22 Fabric Extender for Dell	N2K-B22DELL-P

Cisco Nexus 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

Catalyst 6500 Switches

Product/Component	Part Number
Cisco Unified Computing System	UCS-6100



CHAPTER 6

Caveats

- Open and Resolved Bugs, page 23
- Using the Bug Search Tool, page 23
- Release 7.1(1) Caveats, page 25

Open and Resolved Bugs

Bugs describe unexpected behavior in Cisco IOS software releases. Severity 1 bugs are the most serious bugs; severity 2 bugs are less serious. Severity 3 bugs are moderate bugs, and only select severity 3 bugs are included in this section.

In this section, the following information is provided for each bug:

- Symptoms-A description of what is observed when the bug occurs.
- Conditions-The conditions under which the bug has been known to occur.
- Workaround-Solutions, if available, to counteract the bug.

Note If you have an account on Cisco.com, you can also use the Bug Toolkit to find select bugs of any severity. To reach the Bug Toolkit, log in to Cisco.com and go to https://tools.cisco.com/bugsearch/. (If the defect that you have requested cannot be displayed, this may be due to one or more of the following reasons: the defect number does not exist, the defect does not have a customer-visible description yet, or the defect has been marked Cisco Confidential.)

Using the Bug Search Tool

The Cisco Bug Search Tool enables you to filter the bugs so that you only see those in which you are interested. In addition to being able to search for a specific bug ID, or for all bugs in a product and release, you can filter the open and/or resolved bugs by one or more of the following criteria:

- Last modified date

- Status, such as fixed (resolved) or open
- Severity
- Support cases

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

Note You must have a Cisco.com account to log in and access the Cisco Bug Search Tool. if you do not have one, you can https://tools.cisco.com/RPF/register/register.do?locale=en_US for an account.

To use the Cisco Bug Search Tool:

1. In your browser, navigate to the Cisco Bug Search Tool.
2. If you are redirected to a Log In page, enter your registered Cisco.com username and password and then, click Log In.
3. To search for a specific bug, enter the bug ID in the Search For field and press Enter.
4. To search for bugs related to a specific software release, do the following:
   a. In the Product field, choose Series/Model from the drop-down list and then enter the product name in the text field. If you begin to type the product name, the Cisco Bug Search Tool provides you with a drop-down list of the top ten matches. If you do not see this product listed, continue typing to narrow the search results.
   b. In the Releases field, enter the release for which you want to see bugs. The Cisco Bug Search Tool displays a preview of the results of your search below your search criteria. You can mouse over bugs to see more content about a specific bug.
5. To see more content about a specific bug, you can do the following:
   - Mouse over a bug in the preview to display a pop-up with more information about that bug.
   - Click on the hyperlinked bug headline to open a page with the detailed bug information.
6. To restrict the results of a search, choose from one or more of the following filters:

Filter	Description
Modified Date	A predefined date range, such as last week or last six months.
Status	A specific type of bug, such as open or fixed.
Severity	The bug severity level as defined by Cisco. For definitions of the bug severity levels, see Bug Search Tool Help & FAQ.
Rating	The rating assigned to the bug by users of the Cisco Bug Search Tool.
Support Cases	Whether a support case has been opened or not.

Your search results update when you choose a filter.

Release 7.1(1) Caveats

Resolved Caveats—Cisco DCNM Release 7.1(1)

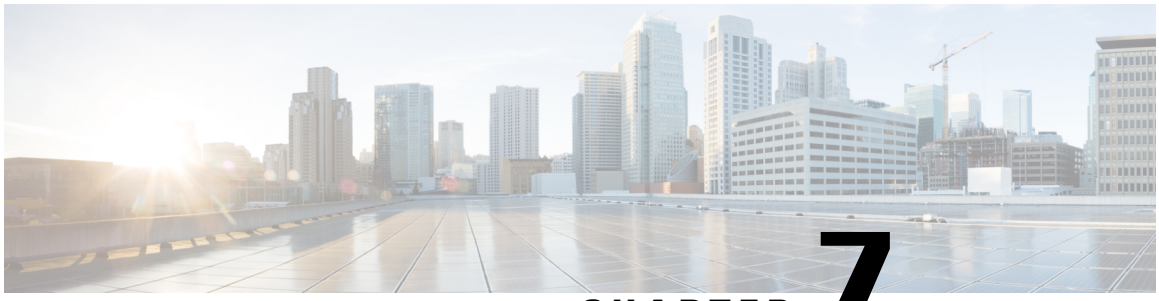
The following table lists the Resolved bugs for Cisco DCNM Release 7.1(1).

Record Number	Resolved Caveat Headline
CSCuf73759	discovering setup for two layer vpc one by one
CSCuo18159	NPV Setup Wizard shows error while enabling NPV
CSCup75509	TACACS & Radius auth for WebUI login failing, but LAN & SAN login working
CSCun86190	POAP template: modify value for array type parameter not taking effect
CSCur48635	Multi-role LDAP authentication on DCNM fails
CSCus00241	Cisco DCNM FileServlet Information Disclosure Vulnerability

Open Caveats—Cisco DCNM Release 7.1(1)

The following table lists the Resolved bugs for Cisco DCNM Release 7.1(1).

Record Number	Resolved Caveat Headline
CSCus02931	WebUI: Health->vpc displays n/a for vpc leg fex port channel
CSCus03320	SME Web Client Host Section Not Displaying Host Info Resulting Error
CSCuo31949	Admin >logs >web reports not showing logs for executed reports
CSCul88797	Connection between Fex and N1k not shown for 2 layer vPC
CSCuo15884	Topology view: Incorrect Discovery Port
CSCus22618	Secure LDAP option in POAP template will fail on Nexus switches.



CHAPTER 7

Related Documentation

This section contains information about the documentation available for Cisco DCNM and for the platforms that Cisco DCNM manages.

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.

- Cisco DCNM Documentation, page 27
- Platform-Specific Documents, page 28
- Obtaining Documentation and Submitting a Service Request, page 29

Cisco DCNM Documentation

The Cisco DCNM documentation is available at the following URL: http://www.cisco.com/c/en/us/support/cloud-systems-management/prime-data-center-network-manager/tsd-products-support-series-home.html

The documentation set for Cisco DCNM includes the following documents:

Release Notes

Cisco DCNM Release Notes, Release 7.1(1)

Installation and Licensing

Cisco DCNM Installation Guide, Release 7.1.x

Cisco DCNM Fundamentals Guide

Cisco DCNM Fundamentals Guide, Release 7.1.x

Cisco DCNM REST API Guide

Cisco Prime DCNM REST API Guide

Cisco DCNM Troubleshooting Guide

Cisco DCNM Troubleshooting Guide

Cisco DCNM for LAN Configuration Guides

FabricPath Configuration Guide, Cisco DCNM for LAN,

Cisco DCNM Interfaces Configuration Guide,

Cisco DCNM Layer 2 Switching Configuration Guide

Cisco DCNM Security Configuration Guide

Cisco DCNM System Management Configuration Guide

Cisco DCNM Unicast Routing Configuration Guide

Cisco DCNM Virtual Device Context Configuration Guide

Cisco DCNM Getting Started with Virtual Device Contexts

Cisco DCNM Web Services API Guide

Cisco DCNM for SAN Configuration Guides

System Management Configuration Guide, Cisco DCNM for SAN

Interfaces Configuration Guide, Cisco DCNM for SAN

Fabric Configuration Guide, Cisco DCNM for SAN

Quality of Service Configuration Guide, Cisco DCNM for SAN

Security Configuration Guide, Cisco DCNM for SAN

IP Services Configuration Guide, Cisco DCNM for SAN

Intelligent Storage Services Configuration Guide, Cisco DCNM for SAN

High Availability and Redundancy Configuration Guide, Cisco DCNM for SAN

Inter-VSAN Routing Configuration Guide, Cisco DCNM for SAN

SMI-S and Web Services Programming Guide, Cisco DCNM for SAN

Platform-Specific Documents

The documentation set for Platform-Specific Documents that DCNM manages includes the following documents:

Cisco Nexus 1000V Series Switch Documentation

The Cisco Nexus 1000V Series switch documentation is available at the following URL:

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

Cisco Nexus 2000 Series Fabric Extender Documentation

The Cisco Nexus 2000 Series Fabric Extender documentation is available at the following URL:

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

Cisco Nexus 3000 Series Switch Documentation

The Cisco Nexus 3000 Series switch documentation is available at the following URL:

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

Cisco Nexus 4000 Series Switch Documentation

The Cisco Nexus 4000 Series switch documentation is available at the following URL:

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

Cisco Nexus 5000 Series Switch Documentation

The Cisco Nexus 5000 Series switch documentation is available at the following URL:

http://www.cisco.com/en/US/products/ps9670/tsd_products_support_series_home.html

Cisco Nexus 6000 Series Switch Documentation

The Cisco Nexus 6000 Series documentation is available at the following URL:

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

Cisco Nexus 7000 Series Switch Documentation

The Cisco Nexus 7000 Series switch documentation is available at the following URL:

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

Cisco Nexus 9000 Series Switch Documentation

The Cisco Nexus 9000 Series switch documentation is available at the following URL:

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

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*, at: http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html.

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