Doc type
Confidentiality

The bridge to possible

Cisco Nexus Dashboard Fabric Controller Release Notes

Release 12.0.1a

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

Note: Cisco Data Center Network Manager (DCNM) is renamed as Cisco Nexus Dashboard Fabric Controller (NDFC) from Release 12.0.1a.

Note: The documentation set for this product strives to use bias-free language. For this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation or language that is used by a referenced third-party product.

Overview

Cisco Nexus Dashboard Fabric Controller is the comprehensive management solution for all NX-OS deployments spanning LAN Fabric, SAN, and IP Fabric for Media (IPFM) networks in data centers powered by Cisco. Cisco Nexus Dashboard Fabric Controller also supports other devices, such as IOS-XE switches, IOS-XR routers, and non-Cisco devices. Being a multi-fabric controller, Cisco Nexus Dashboard Fabric Controller manages multiple deployment models like VXLAN EVPN, Classic 3-Tier, and Routed based fabrics for LAN while providing ready-to-use control, management, monitoring, and automation capabilities for all these environments. In addition, Cisco Nexus Dashboard Fabric Controller when enabled as a SAN Controller automates Cisco MDS Switches and Cisco Nexus Family infrastructure in NX-OS mode.

This document describes the features, bugs, and limitations for Cisco Nexus Dashboard Fabric Controller software. For more information about this product, see Related Content.

Nexus Dashboard Fabric Controller primarily focuses on Control and Management for three primary market segments:

- LAN networking including VXLAN, Multi-Site, Classic Ethernet, and External Fabrics supporting Cisco Nexus switches running standalone NX-OS, with additional support for IOS-XR, IOS-XE and adjacent Host, Compute, Virtual Machine, and Container Management systems.
- SAN networking for Cisco MDS and Cisco Nexus switches running standalone NX-OS, including support for integration with storage arrays and additionally Host, Compute, Virtual Machine, and Container Management systems.
- Media Control for Multicast Video production networks running Cisco Nexus switches operated as standalone NX-OS, with additional integrations for 3rd party media control systems.

Previously, DCNM was an application server running on a VM deployed via OVA or ISO, a physical appliance deployed via ISO, or software installed on a qualified Windows or Linux machine. Cisco Nexus Dashboard Fabric Controller, Release 12 is available as an application running exclusively on top of the Cisco Nexus Dashboard Virtual or Physical Appliance.

Virtual Nexus Dashboard deployment with OVA is also referred to as virtual Nexus Dashboard (vND) deployment, while the deployment of Nexus Dashboard on a physical appliance (Service Engine) is known as physical Nexus Dashboard (pND) deployment. To deploy Nexus Dashboard based on your requirement, refer to Cisco Nexus Dashboard Deployment Guide.

Beginning with Release 12.0.1a, Cisco Nexus Dashboard Fabric Controller has a single installation mode. It supports selection from multiple personas in a single installation. After the Nexus Dashboard Fabric Controller Release 12.0.1a is installed, you can choose from one of the following personas:

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

- **Fabric Discovery**—Discover, Monitor, and Visualize LAN Deployments.
- **Fabric Controller**—LAN Controller for Classic Ethernet (vPC), Routed, VXLAN, and IP Fabric for Media Deployments.
- **SAN Controller**—SAN Controller for MDS and Nexus switches. Enhanced SAN Analytics with streaming telemetry.

All features/services are modularized, broken into smaller microservices, and the required microservices are orchestrated based on the feature set or installation modes. Therefore, if any feature or microservice is down, only that microservice is restarted and recovered, resulting in minimal disruption.

In contrast to the previous DCNM Active-Standby HA model which did not utilize the resources of both servers effectively, Cisco Nexus Dashboard Fabric Controller introduces Active-Active HA deployment model utilizing all three nodes for deploying microservices. This has significant improvement in both latency and effective resource utilization.

For NDFC to run on top of the virtual Nexus Dashboard instance, you must enable promiscuous mode on port groups that are associated with interfaces where External Service IP addresses are specified. By default, for LAN deployments, 2 external service IP addresses are required for the Nexus Dashboard management interface subnet. Therefore, you must enable promiscuous mode for the associated port group. If inband management or EPL is enabled, you must specify External Service IP addresses in the Nexus Dashboard data interface subnet. The promiscuous mode also must be enabled for the Nexus Dashboard data/fabric interface port-group. For NDFC SAN Controller, promiscuous mode only must be enabled on the Nexus Dashboard data interface associated port-group.

For more information, see Cisco Nexus Dashboard Fabric Controller (Formerly DCNM).

Change History

The following table shows the change history for this document.

Date	Description
30 September 2021	Published Release Notes for Cisco Nexus Dashboard Fabric Controller Release 12.0.1a

Deployment Options

The following deployment options are available for Cisco Nexus Dashboard Fabric Controller:

- NDFC on Single node (non-HA Cluster)

  On Single node Nexus Dashboard, you can deploy NDFC with the following personas:

  - SAN Controller with SAN Insights
  - Fabric Controller for IP Fabric for Media (IPFM) deployments
  - Fabric Controller for lab/non-production environments (<= 25 switches)

- NDFC on a three-node Cluster (Active-Active HA mode)

  On 3-Node Nexus Dashboard, you can deploy NDFC with the following personas:

  - Fabric Discovery
  - Fabric Controller
  - SAN Controller with SAN Insights

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

Note: For NDFC deployments, the Nexus Dashboard node should have a different subnet on the management interface and the data/fabric interface. In addition, in a 3-node Nexus Dashboard cluster, all Nexus Dashboard nodes should be layer-2 adjacent. In other words, the 3 Nexus Dashboard nodes must all belong to the same management and data networks respectively.
In summary, Nexus Dashboard Fabric Controller is not supported on Nexus Dashboard nodes that are deployed with management and data networks using overlapping subnets.

In this deployment, all 3 ND nodes function as Masters. Three Node HA is an active-active solution, that is all nodes are utilized to run micro-services of Nexus Dashboard Fabric Controller. When a node fails, Nexus Dashboard Fabric Controller microservices running on the node that failed will be moved to the other two nodes. Nexus Dashboard Fabric Controller performs normally under one node failure condition, it is expected there will be a brief disruption to services that have to be migrated on node failure. But, once the migration of services is complete, the supported scale continues to function. But a system running with one failed node is not the desired situation and must be rectified as soon as possible. A three-node cluster cannot tolerate failure of two nodes and all Nexus Dashboard Fabric Controller services will be disrupted.

For virtual Nexus Dashboard OVA deployments on ESXi environments, it is imperative that promiscuous mode is enabled on the port-groups that are associated with Nexus Dashboard management and Nexus Dashboard data/fabric interface port-groups. Otherwise, some of the functionality such as SNMP trap, Image management, Endpoint Locator, SAN Insights and so on will not work.

Note that Cisco NDFC Release 12.0.1a and Release 12.0.2f cannot be cohosted with Nexus Dashboard Insights on Nexus Dashboard.

Note: Nexus Dashboard cluster federation is not supported with Nexus Dashboard Fabric Controller.

Deployment Profiles

While installing Cisco Nexus Dashboard Fabric Controller, based on the persona, you can choose a deployment profile. When deploying NDFC application, the Nexus Dashboard indicates the deployment profile that is chosen for the cluster form factor. This generally does not need to be overridden, unless explicitly stated below:

To choose an appropriate profile, refer to the following recommendations.

virtual-demo

This deployment profile must be selected for NDFC application running on a virtual Nexus Dashboard cluster that is deployed using the app OVA.

Note: You can override to this profile only when enabling NDFC application on Nexus Dashboard.

Supported deployment personas include-

- Fabric Discovery in single node
- Fabric Controller deployment in single node cluster
- Fabric Controller with IPFM in a single node cluster
- SAN Controller deployment with SAN Insights in a single node

Note: virtual-demo Profile is purely for demo purposes and not intended to be used for production environments.

© 2021 Cisco and/or its affiliates. All rights reserved.

virtual-app

This deployment profile must be selected for NDFC application running on a virtual Nexus Dashboard cluster that is deployed using the app OVA. By default, this profile is selected when the NDFC application is enabled on an app node virtual Nexus Dashboard.

Supported deployment personas include-

- Fabric Controller in 3 node cluster
- Fabric Controller with IPFM in single or 3 node cluster
- SAN Controller in single or 3 node cluster

Note: SAN Insights is not supported with this deployment profile.

virtual-data

This deployment profile must be selected for NDFC application running on a virtual Nexus Dashboard cluster that is deployed using the data OVA. This profile should be used for the SAN Controller persona with SAN Insights. By default, this profile will be selected when the NDFC application is enabled on a data node virtual Nexus Dashboard.

Supported deployment personas include-

- SAN Controller in single or 3 node cluster

Note: SAN Insights is supported with this deployment profile in single or 3 master cluster node

physical

This deployment profile must be selected for NDFC application running on a physical Nexus Dashboard cluster. By default, this profile will be selected when the NDFC application is enabled on a physical Nexus Dashboard.

Supported deployment personas include-

- Fabric Controller in 3 node cluster
- Fabric Controller with IPFM in single or 3 node cluster
- SAN Controller in single or 3 node cluster

Note: SAN Insights is supported with this deployment profile.

System Requirements

This chapter lists the tested and supported hardware and software specifications for Cisco Nexus Dashboard Fabric Controller architecture. The application is in English locales only.

The following sections describe the various system requirements for the proper functioning of your Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.

Note: We recommend that you do not upgrade any underlying third-party software separately. All the necessary software components will be updated during the inline upgrade procedure. Upgrading the components outside of Nexus Dashboard Fabric Controller upgrade causes functionality issues.

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

Cisco Nexus Dashboard Version Compatibility

Cisco Nexus Dashboard Fabric Controller (NDFC) requires Nexus Dashboard version 2.1(1e) or higher. If you try to upload NDFC 12.0.1a on a Nexus Dashboard version earlier than 2.1(1e), you will not be allowed to upload the NDFC application. To download the correct version of Nexus Dashboard, visit Software Download – Nexus Dashboard.

Nexus Dashboard Server Resource (CPU/Memory) Requirements

The following table provides information about Server Resource (CPU/Memory) Requirements to run NDFC on top of Nexus Dashboard.

Deployment Type	Node Type	CPUs	Memory	Storage (Throughput: 40-50MB/s)
Fabric Discovery	Virtual Node (vND) – app OVA	16vCPUs	64GB	550GB SSD
	Physical Node (pND) (PID: SE-NODE-G2)	2x 10-core 2.2G Intel Xeon Silver CPU	256 GB of RAM	4x 2.4TB HDDs 400GB SSD 1.2TB NVME drive
Fabric Controller	Virtual Node (vND) – app OVA	16vCPUs	64GB	550GB SSD
	Physical Node (pND) (PID: SE-NODE-G2)	2x 10-core 2.2G Intel Xeon Silver CPU	256 GB of RAM	4x 2.4TB HDDs 400GB SSD 1.2TB NVME drive
SAN Controller	Virtual Node (vND) – app OVA (without SAN Insights)	16vCPUs	64GB	550GB SSD
	Data Node (vND) – Data OVA (with SAN Insights)	32vCPUs	128GB	3TB SSD
	Physical Node (pND) (PID: SE-NODE-G2)	2x 10-core 2.2G Intel Xeon Silver CPU	256 GB of RAM	4x 2.4TB HDDs 400GB SSD 1.2TB NVME drive

Nexus Dashboard Networks

When first configuring Nexus Dashboard, you must provide two IP addresses for the two Nexus Dashboard interfaces—one connected to the Data Network and the other to the Management Network. The data network is used for the nodes' clustering and Cisco fabrics traffic. The management network is used to connect to the Cisco Nexus Dashboard Web UI, CLI, or API.

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

The Management and Data Interfaces within a node must be in different subnets for Nexus Dashboard Fabric Controller. The interfaces between the nodes must be within the same Layer-2 Network (or same Layer-3 subnet).

Connectivity between the nodes is required on both networks with the round trip time (RTT) not exceeding 150ms for Nexus Dashboard Fabric Controller. Other applications running in the same Nexus Dashboard cluster may have lower RTT requirements and you must always use the lowest RTT requirement when deploying multiple applications in the same Nexus Dashboard cluster. Refer to the Cisco Nexus Dashboard Deployment Guide for more information.

When Nexus Dashboard Fabric Controller is deployed on Nexus Dashboard, it uses each of the two networks for different purposes as shown in the following table:

Node Type	Storage (Throughput: 40-50MB/s)
Any traffic to and from Cisco Nexus Dashboard Fabric Controller	Data network
Intra-cluster communication	Data network
Audit log streaming (Splunk/syslog)	Management network
Remote backup	Management network
Virtual Node (vND) – app OVA (without SAN Insights)	550GB SSD

The following table provides information about network requirements for NDFC on Nexus Dashboard.

Management Interface	Data Interface	Persistent IPs	Support for Data and Management in the same subnet
Layer 2 adjacent	Layer 2 adjacent	One of the following: • 2 IPs in the management network if using the default LAN Device Management Connectivity setting • 2 IPs in the data network if setting LAN Device Management Connectivity to Data Plus 1 IP per fabric for EPL in the data network	Not supported

Supported Latency

As Cisco Nexus Dashboard Fabric Controller is deployed atop Cisco Nexus Dashboard, the latency factor depends on Cisco Nexus Dashboard. Refer to the Cisco Nexus Dashboard Deployment Guide for information about latency.

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

Supported Web Browsers

Cisco Nexus Dashboard Fabric Controller is supported on the following web browsers:

- Google Chrome version: 92.0.4515.159
- Mozilla Firefox version: 91.0.2 (64-bit)
- Microsoft Edge version: 92.0.902.84

Other Supported Software

The following table lists the other software that is supported by Cisco Nexus Dashboard Fabric Controller Release 12.0.1a.

Component	Features
Security	• ACS versions 4.0, 5.1, 5.5, and 5.8 • ISE version 2.6 • ISE version 3.0 • Telnet Disabled: SSH Version 1, SSH Version 2, Global Enforce SNMP Privacy Encryption. • Web Client: HTTPS with TLS 1, 1.1 and 1.2 • TLS 1.3

New Software Features

Cisco Nexus Dashboard Fabric Controller Release 12.0.1a includes new features, enhancements, and hardware support. The following sections include information about the new features, enhancements, and hardware support introduced in the Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.

You can also watch the video What's New in Cisco NDFC, Release 12.0.1a.

Infrastructure Enhancements

The following infrastructure features are new in Cisco NDFC Release 12.0.1a.

Feature	Description
New User Interface	NDFC implements a new look and feel with an intuitive React JavaScript GUI that aligns with Nexus Dashboard GUI and supports modernized topology views. Various dashboards are introduced at the global, fabric, and device levels, with up-to-date health scores and performance summary.
Microservices architecture	NDFC embraces a complete Kubernetes-based microservices architecture on Nexus Dashboard. By moving away from a monolithic infrastructure to a containerized and modular infrastructure, IT can leverage this new model to enable elastic scale and improve performance and reliability.
Three-node Active-Active Cluster support	NDFC supports Active-Active high availability (HA) with a 3 node ND cluster. The Nexus Dashboard nodes must be Layer-2 adjacent to the management and data interfaces. Layer 3 reachability among Nexus Dashboard nodes will be introduced in future releases.

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

Feature	Description
Single Installation mode with Feature Enabler	NDFC uses a run-time feature enabler. This feature management capability allows you to enable or disable different features and feature-sets (personas) including Fabric Controller (LAN), SAN Controller, IP Fabric for Media (IPFM), and Fabric Discovery. Depending on what features/feature-sets are enabled or disabled, the menus are dynamically updated with appropriate parent or sub-options for improved user experience.
Granular RBAC Model	NDFC supports the fine-grained Role Based Access Control (RBAC) offered by the Nexus Dashboard platform. A user can be assigned different roles in different fabrics/sites that they have access to. For this purpose, one can create different security domains on the Nexus Dashboard, associate appropriate NDFC sites/fabrics to those security domains and then indicate which user has what roles in what security domains. In summary, a user can have different roles on different ND security domains. By default, all NDFC sites are part of an 'all' domain unless they are moved to a user-defined security domain.
Email Programmable Reports	Beginning with Release 12.0.1a, you can configure NDFC to receive programmable reports over email.
User Feedback	From Release 12.0.1a, you can provide feedback on the application through the Cisco Nexus Dashboard Fabric Controller Web UI. You can ask for new features/enhancements using this feature. The request is sent to Cisco Nexus Dashboard Fabric Controller marketing team, who evaluate the requirement so that they can be included as features or enhancements in the upcoming releases.
Tech-Support and Backup & Restore	All NDFC operations including tech-support collection, scheduled backups, and restore operations are now supported via an intuitive GUI-based workflow. The same process can be used to restore a DCNM 11.x backup (aka upgrade) or a NDFC 12.0.1a backup on a new NDFC installation.
Visualize Templates usage	From Release 12.0.1a, a column on **Operations > Templates** displays the number of times the template is used in the Reference Count column.
Smart Licensing using Policy	Beginning with Cisco Nexus Dashboard Fabric Controller Release 12.0.1a, you can use the Smart Licensing feature to manage licenses at device-level and renew them if necessary. Cisco Smart Licensing Using Policy aims to increase ease of use by enforcing fewer restrictions with the goal of not interrupting the operations of customer networks.

Fabric Controller Enhancements

The following features are new in Cisco NDFC Release 12.0.1a for the Fabric Controller.

Feature	Description
Easy Fabric Support for Cisco Catalyst Switches	The Fabric Builder functionality has been enhanced in release 12.0.1a, to support a new fabric template Easy_Fabric_IOS_XE that allows full configuration automation of a VXLAN EVPN fabric for Catalyst 9000 IOS-XE switches.
Easy Fabric Support for Cisco Catalyst Switches	The Fabric Builder functionality has been enhanced in release 12.0.1a, to support a new fabric template Easy_Fabric_IOS_XE that allows full configuration automation of a VXLAN EVPN fabric for Catalyst 9000 IOS-XE switches.

© 2021 Cisco and/or its affiliates. All rights reserved.

Feature	Description
Managed Support for IOS-XR Devices	In NDFC12.0.1a, Cisco IOS-XR devices such as ASR-9000, NCS-5500, and Cisco 8000 (preview feature) series routers can be managed in External Fabrics in managed mode. NDFC packages several best-practice configuration templates for IOS-XR systems to support various use cases related to edge router and core router scenarios. In managed mode, Configuration Compliance is enabled for all Cisco devices in External Fabrics including IOS-XR devices.
Configuring Overlay VRFs/Networks in Easy Fabrics using CLI or Configuration Profiles	In DCNM 11.x release, in Easy Fabric based VXLAN EVPN deployments, overlay configuration intent was created and deployed on Nexus switches using configuration profiles. Now with NDFC 12.0.1a release, one can configure overlays using either vanilla CLIs or using configuration profiles. The user can make this choice on a per fabric basis where a configuration knob has been provided to select the desired overlay mode.
Bulk Import of Network Attachments	For quick overlay provisioning, NDFC 12.0.1a supports a CSV import/export option that allows bulk attach/detach of multiple networks on multiple switches at one go.
Changing Switch management IP address	After importing and management of NX-OS device via its seed IP address, now can you change the seed IP address of a switch on the NDFC in a nondisruptive manner without requiring the device to be deleted and reimported. This ensures that all state about that device is maintained on the NDFC during this entire transition.
New view for All Fabrics	For quick overlay provisioning, NDFC 12.0.1a supports importing or exporting (in .csv format) that allows bulk attaching or detaching of multiple networks on multiple switches at one go.

Fabric Controller with IP for Media (IPFM) Enhancements

The following features are new in Cisco NDFC Release 12.0.1a for the Fabric Controller for IPFM Fabrics.

Feature	Description
Easy Fabric for IP for Media Network underlay	From Release 12.0.1a, you can configure IP for Media (IPFM) fabrics using the new IPFM fabric templates and policies. Two new templates, namely IPFM_Classic and Easy_Fabric_IPFM, allow you to easily provision the underlay network for the IPFM fabrics. This allows closed-loop automation of IPFM networks with the built-in Fabric Builder functionality of Fabric Controller deployments. **IPFM_Classic** template supports IPFM_Classic and Generic_Multicast mode. **Easy_Fabric_IPFM** template supports Greenfield deployments only.
Support for EDI monitoring	From Release 12.0.1a, Cisco NDFC allows you to view all the active RTP streams along with the existing EDI streams on the RTP/EDI Flow Monitor tab in IPFM Fabric Overview.
Multi-tenancy at VRF level for IPFM fabric	By configuring IPFM VRF and related attributes, you can manage and monitor VRF-specific host/flow policies, endpoints, and flows. Also, VRF aware flow visibility for Generic Multicast Fabric is also supported.
IPFM dashboard	Endpoints/Hosts and Flows cards display details about IPFM fabrics on **Fabrics > Fabric Overview > Overview** tab for the selected IPFM Fabric. Hosts card displays details such as host role and count. Flows card displays Multicast flow class and count.

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

SAN Controller Enhancements

The following features are new in Cisco Nexus Dashboard Fabric Controller Release 12.0.1a for the SAN Controller.

Feature	Description
Topology Enhancements	From Release 12.0.1a, NDFC displays information about the following on Web UI > Topology. • VSANs • Zones • Hosts • Storage • Last Poll Metric
SAN Insights Enhancements	You can configure SAN fabrics on the topology page and on the fabric listing page. The new SAN Insights Anomaly policy enables you to create customized alarms to identify issues in fabric using SAN Insight data. You can create an alarm policy based on specific flows to retain per interval data for analysis. You can view the metric charts and dashlets for this policy. Scale Enhancements: Three node virtual Nexus Dashboard supports 150,000 ITLs/ITNs.
Zoning	From SAN Controller Release 12.0.1a, Regular zones and IVR zones are merged into a single zoning page. Enhanced Zoning and FC Alias features are supported for regular zones. CFS feature is supported for IVR zones.
Port Monitoring	New port monitoring policy fabricmon_edge_policy is introduced. You can change the required port type for the selected policy, apart from the predefined port. New port guards FPIN, DIRL, and cong-isolate-recover are added for edge port type only. Dynamic Ingress Rate Limiting (DIRL) allows you to automatically limit the rate of ingress commands and other traffic to reduce or eliminate the congestion that is occurring in the egress direction. DIRL Congestion is a preview feature in SAN Controller Release 12.0.1a. Don't use this feature in your production environment.
Monitor Optics Metrics	You can view optic metric information for devices that are connected to FC ports. You can view the top ten worst optic dashlets on the Dashboard.
Rename Device Alias	From NDFC Release 12.0.1a, you can edit and modify the device aliases.

New Hardware Features

The following new hardware is supported from Cisco Nexus Dashboard Fabric Controller Release 12.0.1a.

- 36x100G Ethernet module for Nexus 9000 Series—N9K-X9636C-R
- Cisco Nexus 9000 Series 24-port 400/100 Gigabit Ethernet QSFP-DD line card—N9K-X9624D-R2
- Fabric Module for Cisco Nexus 9508 R2-Series line cards—N9K-C9508-FM-R2
- Cisco Nexus 9332D-GX2B Switch with 32p 400/100-Gbps QSFP-DD ports and 2p 1/10 SFP+ ports—N9K-C9332D-GX2B

© 2021 Cisco and/or its affiliates. All rights reserved.

- Cisco Nexus 9364D-GX2A Switch with 64p 400/100-Gbps QSFP-DD ports and 2p 1/10 SFP+ ports—N9K-C9364D-GX2A
- Cisco MDS 9000 64-Gbps 48-port Fibre Channel—DS-X9748-3072K9

Upgrade Paths

The following table summarizes the type of upgrade that you must follow to upgrade to Release 12.0.1a.

Go to Software Download to download the Upgrade Tool scripts.

Current Release Number	Deployment Type	Upgrade type when upgrade to Release 12.0.1a
11.5(3)	All	Not Supported
11.5(2)	SAN Deployment on Windows and Linux	Backup using **DCNM_To_NDFC_Upgrade_Tool_LIN_WIN.zip** Restore on Nexus Dashboard Fabric Controller **Web UI > Operations > Backup & Restore**
	SAN Deployment on OVA/ISO/SE	Backup using **DCNM_To_NDFC_Upgrade_Tool_OVA_ISO.zip** Restore on Nexus Dashboard Fabric Controller **Web UI > Operations > Backup & Restore**
	LAN Fabric Deployment on OVA/ISO/SE	Backup using **DCNM_To_NDFC_Upgrade_Tool_OVA_ISO.zip** Restore on Nexus Dashboard Fabric Controller **Web UI > Operations > Backup & Restore**
11.5(1)	SAN Deployment on Windows and Linux	Backup using **DCNM_To_NDFC_Upgrade_Tool_LIN_WIN.zip** Restore on Nexus Dashboard Fabric Controller **Web UI > Operations > Backup & Restore**
	SAN Deployment on OVA/ISO/SE	Backup using **DCNM_To_NDFC_Upgrade_Tool_OVA_ISO.zip** Restore on Nexus Dashboard Fabric Controller **Web UI > Operations > Backup & Restore**
	LAN Fabric Deployment on OVA/ISO/SE	Backup using **DCNM_To_NDFC_Upgrade_Tool_OVA_ISO.zip** Restore on Nexus Dashboard Fabric Controller **Web UI > Operations > Backup & Restore**
	Media Controller Deployment on OVA/ISO	Backup using **DCNM_To_NDFC_Upgrade_Tool_OVA_ISO.zip** Restore on Nexus Dashboard Fabric Controller **Web UI > Operations > Backup & Restore**

Persona Compatibility for Upgrade

By using the appropriate Upgrade Tool, you can restore data that is backed up from DCNM release 11.5(1) or release 11.5(2) on a newly deployed Cisco Nexus Dashboard Fabric Controller for the personas as mentioned in the following table:

© 2021 Cisco and/or its affiliates. All rights reserved.

Backup from DCNM 11.5(x)	Persona Enabled in NDFC 12.0.1a after Upgrade
DCNM 11.5(x) LAN Fabric Deployment on OVA/ISO/SE	Fabric Controller + Fabric Builder
DCNM 11.5(x) PMN Deployment on OVA/ISO/SE	Fabric Controller + IP Fabric for Media (IPFM)
DCNM 11.5(x) SAN Deployment on OVA/ISO/SE	SAN Controller
DCNM 11.5(x) SAN Deployment on Linux	SAN Controller
DCNM 11.5(x) SAN Deployment on Windows	SAN Controller

Feature Compatibility Post Upgrade

The following table lists caveats associated with features that are restored from DCNM 11.5(x) backup after upgrade to NDFC, Release 12.0.1a.

Feature in DCNM 11.5(x)	Upgrade Support
Multi-Site Orchestrator configured	Not supported
Nexus Insights configured	Not supported
Preview features configured	Not supported
LAN switches in SAN installations	Not supported
Switches discovered over IPv6	Not supported
Container Orchestrator feature	Not supported
vCenter Compute feature	Not supported
DCNM Tracker	Not supported
SAN CLI templates	Not carried over from 11.5(x) to 12.0.1a
Switch images/Image Management data	Not carried over from 11.5(x) to 12.0.1a
Slow drain data	Not carried over from 11.5(x) to 12.0.1a
Infoblox configuration	Not carried over from 11.5(x) to 12.0.1a
Endpoint Locator configuration	You must reconfigure Endpoint Locator (EPL) post upgrade to Release 12.0.1a. However, historical data is retained up to a maximum size of 500 MB.
Alarm Policy configuration	Not carried over from 11.5(x) to 12.0.1a
Performance Management data	CPU/Memory/Interface statistics up to 90 days is restored post-upgrade.

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

Supported Cisco Platforms and Software Versions

Compatibility Matrix for Fabric Controller

Fabric Type	Supported Releases	Recommended Releases
Newly provisioned VXLAN fabrics N9000, N9000v	7.0(3)I7(9), 7.0(3)I7(10), 9.3(3), 9.3(4), 9.3(5), 9.3(6), 9.3(7), 9.3(7a), 9.3(8), 10.1(1), 10.1(2), 10.2(1)F	9.3(8)
Newly provisioned VXLAN fabrics N3600	9.3(3), 9.3(4), 9.3(5), 9.3(6), 9.3(7), 9.3(7a), 9.3(8), 10.1(1), 10.1(2), 10.2(1)F	9.3(8)
Brownfield deployment for N9000	7.0(3)I7(9), 7.0(3)I7(10), 9.3(3), 9.3(4), 9.3(5), 9.3(6), 9.3(7), 9.3(7a), 9.3(8), 10.1(1), 10.1(2), 10.2(1)F	9.3(8)
Brownfield deployment for N3600	9.3(3), 9.3(4), 9.3(5), 9.3(6), 9.3(7), 9.3(7a), 9.3(8), 10.1(1), 10.1(2), 10.2(1)F	9.3(8)
External/LAN Classic Fabric N3000/3100/3500	7.0(3)I7(9), 7.0(3)I7(10), 9.3(3), 9.3(4), 9.3(5), 9.3(6), 9.3(7), 9.3(7a), 9.3(8), 10.1(1), 10.1(2), 10.2(1)F	9.3(8)
External/LAN Classic Fabric N3600	9.3(3), 9.3(4), 9.3(5), 9.3(6), 9.3(7), 9.3(7a), 9.3(8), 10.1(1), 10.1(2), 10.2(1)F	9.3(8)
External/LAN Classic Fabric N5000/5600/6000	7.3(9)N1(1), 7.3(10)N1(1)	7.3(9)N1(1)
External/LAN Classic Fabric N7000/7700	7.3(8)D1(1), 8.2(7a), 8.4(4), 8.4(4a), 8.4(5)	7.3(8)D1(1), 8.2(7a)
External/LAN Classic/LAN Monitor Fabric N9000, N9000v	7.0(3)I7(9), 7.0(3)I7(10), 9.3(3), 9.3(4), 9.3(5), 9.3(6), 9.3(7), 9.3(7a), 9.3(8), 10.1(1), 10.1(2), 10.2(1)F	9.3(8)
Easy Fabric for IOS XE [1]	IOS XE 17.03.03	
External Fabric for Non-Nexus Devices [2]	IOS XE 17.03.03 IOS XR 6.7.1 EOS 4.23.4.2M	
IPFM Fabric	9.3(5), 9.3(6), 9.3(7), 9.3(8), 10.1(1), 10.1(2), 10.2(1)F	9.3(8), 10.1(1), 10.1(2), 10.2(1)F

[1] Only Catalyst 9K series supported. For qualified models, refer to the Supported Hardware section in Cisco NDFC Release Notes.

[2] ASR 1K, ASR 9K, Catalyst 9K, CSR 1KV, NCS 5500, Arista DCS series supported. For qualified models, refer to the Supported Hardware section in Cisco NDFC Release Notes.

Compatibility Matrix for SAN Controller

Switches	Supported Switch Releases
Cisco MDS 9100	9.2(1), 8.4(2c), 8.5(1), 6.2(33), 8.4(2b), 8.1(1b), 6.2(31), 6.2(29), 8.4(2a), 8.4(2), 8.4.(1a), 6.2(29), 8.4(1), 6.2(27), 8.3(2), 8.3(1), 8.2(2), 8.2(1), 8.1(1a), 7.3(1)DY(1), 7.3(1)D1(1), 7.3(0)DY(1), 7.3(0)D1(1), 6.2(25), 6.2(23), 6.2.(21), 6.2(19), 6.2(17), 6.2(15), 6.2(13b), 6.2(13a), 6.2(13), 6.2(11c), 6.2(11b), 6.2(11), 6.2(9c), 6.2(9b), 6.2(9a), 6.2(9), 6.2(7), 6.2(5a), 6.2(5), 6.2(3), 6.2(1), 5.2(8i), 5.2(8h), 5.2(8g) , 5.2(8f), 5.2(8e), 5.2(8d), 5.2(8c)

© 2021 Cisco and/or its affiliates. All rights reserved.

Switches	Supported Switch Releases
Cisco MDS 9200	8.5(1), 8.3(2), 8.3(1), 7.3(1)DY(1), 7.3(1)D1(1), 7.3(0)DY(1), 7.3(0)D1(1), 6.2(25), 6.2(23), 6.2.(21), 6.2(19), 6.2(17), 6.2(15), 6.2(13b), 6.2(13a), 6.2(13), 6.2(11c), 6.2(11b), 6.2(11), 6.2(9c), 6.2(9b), 6.2(9a), 6.2(9), 6.2(7), 6.2(5a), 6.2(5), 6.2(3), 6.2(1), 5.2(8h), 5.2(8c), 5.2(8d), 5.2(8e), 5.2(8f), 5.2(8g)
Cisco MDS 9250i	9.2(1), 8.4(2c), 8.5(1), 8.4(2b), 8.4(2a), 8.4(2), 8.1(1b), 8.4.(1a), 6.2(31), 6.2(29), 8.4(1), 6.2(27), 8.3(2), 8.3(1), 8.2(2), 8.2(1), 8.1(1a), 7.3(1)DY(1), 7.3(1)D1(1), 7.3(0)DY(1), 7.3(0)D1(1), 6.2(25), 6.2(23), 6.2.(21), 6.2(19), 6.2(17), 6.2(15), 6.2(13b), 6.2(13a), 6.2(13), 6.2(11c), 6.2(11b), 6.2(11), 6.2(9c), 6.2(9b), 6.2(9a), 6.2(9), 6.2(7), 6.2(5a), 6.2(5)
Cisco MDS 9220i	9.2(1), 8.5(1)
Cisco MDS 9300	9.2(1), 8.4(2c), 8.5(1), 6.2(33), 8.4(2b), 8.1(1b), 6.2(31), 6.2(29), 8.4(2a), 8.4(2), 8.4(1a), 6.2(29), 8.4(1), 6.2(27), 8.3(2), 8.3(1), 8.2(2), 8.2(1), 8.1(1a), 8.1(1), 7.3(1)DY(1), 7.3(1)D1(1), 7.3(0)DY(1), 7.3(0)D1(1), 6.2(25), 6.2(23), 6.2.(21), 6.2(19), 6.2(17), 6.2(15), 6.2(13b), 6.2(13a), 6.2(13)
Cisco MDS 9500	9.2(1), 8.4(2c), 8.5(1), 6.2(33), 7.3(1)DY(1), 7.3(1)D1(1), 7.3(0)DY(1), 7.3(0)D1(1), 6.2(31), 6.2(29), 6.2(25), 6.2(23), 6.2.(21), 6.2(19), 6.2(17), 6.2(15), 6.2(13b), 6.2(13a), 6.2(13), 6.2(11c), 6.2(11b), 6.2(11), 6.2(9c), 6.2(9b), 6.2(9a), 6.2(9), 6.2(7), 6.2(5a), 6.2(5), 6.2(3), 6.2(1), 5.2(8h), 5.2(8c), 5.2(8d), 5.2(8e), 5.2(8f), 5.2(8g)
Cisco MDS 9700	9.2(1), 8.4(2c), 8.5(1), 6.2(33), 8.4(2b), 8.1(1b), 6.2(31), 6.2(29), 8.4(2a), 8.4(2), 8.4(1a), 6.2(29), 8.4(1), 6.2(27), 8.3(2), 8.3(1), 8.2(2), 8.2(1), 8.1(1a), 8.1(1), 7.3(1)DY(1), 7.3(1)D1(1), 7.3(0)DY(1), 7.3(0)D1(1), 6.2(25), 6.2(23), 6.2.(21), 6.2(19), 6.2(17), 6.2(15), 6.2(13b), 6.2(13a), 6.2(13), 6.2(11c), 6.2(11b), 6.2(11), 6.2(9c), 6.2(9b), 6.2(9a), 6.2(9), 6.2(7), 6.2(5a), 6.2(5), 6.2(3), 6.2(1)
Cisco Nexus 9000 Series	10.2(1)F, 7.0(3)I7(10), 9.3(8), 10.1(2), 10.1(1), 9.3(7), 9.3(6), 7.0(3)I7(9), 9.3(5), 9.3(4), 7.0(3)I7(8), 9.3(3), 7.0(3)I7(7), 9.3(2), 9.2(4), 9.3(1), 9.2(3), 7.0(3)I4(9), 7.0(3)I7(6), 9.2(2), 9.2(1), 7.0(3)I7(5), 7.0(3)I7(4), 7.0(3)I7(3), 7.0(3)I7(2), 7.0(3)I7(1), 7.0(3)I4(8), 7.0(3)I4(7), 7.0(3)I4(6), 7.0(3)I4(5), 7.0(3)I4(4), 7.0(3)I4(3), 7.0(3)I4(2), 7.0(3)I4(1), 7.0(3)F3(2), 7.0(3)F3(1), 7.0(3)F1(2), 7.0(3)I6(2), 7.0(3)I6(1), 7.0(3)F2(1), 7.0(3)F1(1), 7.0(3)I2(4), 7.0(3)I2(5), 7.0(3)I5(2), 7.0(3)I5(1), 7.0(3)I3(2), 7.0(3)I3(1), 7.0(3)I2.3, 7.0.3.I2.2c, 7.0(3)I2.2a, 7.0(3)I2.1, 7.0(3)I1.3, 7.0(3)I1.2, 6.2(9), 6.1(2)I3.4, 6.1(2)I3.2, 6.1(2)I3(1), 6.1(2)I2(1), 6.1(2)I1(2), 6.1(2)I1(1)
Cisco Nexus 7000 Series	8.4(5), 8.4(4a), 7.3(8)D1(1), 8.2(7a), 6.2(26), 8.4(4), 7.3(7)D1(1), 8.2(6), 8.4(3), 8.4(2), 7.3(6)D1(1), 6.2(24), 8.2(5), 7.3(5)D1(1), 8.4(1), 8.2(4), 7.3(4)D1(1), 6.2(22), 8.3(2), 8.3(1), 8.2(3), 8.2(2), 8.2(1), 8.1(2), 8.1(1), 8.0(1), 7.3(3)D1(1), 7.3(2)D1(3), 7.3(2)D1(2), 7.3(2)D1(1), 7.3(1)D1(1), 7.3(0)D1(1), 7.2(2)D1(4), 7.2(2)D1(2), 7.2(2)D1(1), 7.2(1)D1(1), 7.2(0)D1(2), 7.2(0)D1(1) , 6.2(24a), 6.2(20), 6.2(18), 6.2(16), 6.2(14), 6.2(10), 6.2(8), 6.2(6a), 6.2(6), 6.2(2a), 6.2(2)
Cisco Nexus 7700 Series	8.4(5), 8.4(4a), 7.3(8)D1(1), 8.2(7a), 6.2(26), 8.4(4), 7.3(7)D1(1), 8.2(6), 8.4(3), 8.4(2), 7.3(6)D1(1), 6.2(24a), 6.2(24), 8.2(5), 7.3(5)D1(1), 8.4(1), 8.2(4), 7.3(4)D1(1), 6.2(22), 8.3(2), 8.3(1), 8.2(3), 8.2(2), 8.2(1), 8.1(2), 8.1(1), 8.0(1), 7.3(3) D1(1), 7.3(2)D1(3), 7.3(2)D1(2), 7.3(2)D1(1), 7.3(1)D1(1), 7.3(0)DX(1), 7.3(0)D1(1), 7.2(2)D1(4), 7.2(2)D1(2), 7.2(2)D1(1), 7.2(1)D1(1), 7.2(0)D1(2), 7.2(0)D1(1) , 6.2(24a), 6.2(20), 6.2(18), 6.2(16), 6.2(14), 6.2(10), 6.2(8), 6.2(6a), 6.2(6), 6.2(2a), 6.2.2
Cisco Nexus 6000/5600 Series	7.3(10)N1(1), 7.3(9)N1(1), 7.3(8)N1(1), 7.3(7)N1(1b), 7.3(7)N1(1a), 7.3(7)N1(1), 7.3(6)N1(1), 7.3(5)N1(1), 7.1(5)N1(1b), 7.3(4)N1(1), 7.3(3)N1(1), 7.3(2)N1(1e), 7.3(2)N1(1), 7.3(1)N1(1), 7.3(0)N1(1), 7.2(1)N1(1), 7.1(5)N1(1), 7.2(0)N1(1), 7.1(5)N1(1), 7.1(4)N1(1), 7.1(3)N1(2), 7.1(3)N1(1), 7.1(2)N1(1), 7.1(1)N1(1), 7.1(0)N1(1), 7.0(8)N1(1), 7.0(7)N1(1), 7.0(6)N1(1), 7.0(5)N1(1), 7.0(4)N1(1), 7.0(3)N1(1), 7.0(2)N1(1), 7.0(1)N1(1), 6.0(2)N2(7), 6.0(2)N2(2), 6.0(2)N2(1), 6.0(2)N1(2)
Cisco Nexus 5000 Series	7.3(10)N1(1), 7.3(9)N1(1), 7.3(8)N1(1), 7.3(7)N1(1b), 7.3(7)N1(1a), 7.3(7)N1(1), 7.3(6)N1(1), 7.3(5)N1(1), 7.1(5)N1(1b), 7.3(4)N1(1), 7.3(3)N1(1), 7.3(2)N1(1e), 7.3(2)N1(1), 7.3(1)N1(1), 7.3(0)N1(1), 7.2(1)N1(1), 7.2(0)N1(1), 7.1(5)N1(1), 7.1(4)N1(1), 7.1(3)N1(2), 7.1(3)N1(1), 7.1(2)N1(1), 7.1(1)N1(1), 7.1(0)N1(1), 7.0(8)N1(1), 7.0(7)N1(1), 7.0(6)N1(1), 7.0(5)N1(1), 7.0(4)N1(1), 7.0(3)N1(1), 7.0(2)N1(1), 7.0(1)N1(1), 6.0(2)N2(7), 6.0(2), 5.2(1)N1(9a), 5.2(1)N1(9), 5.2(1), 5.1(3), 5.0(3), 5.0(2), 4.2(1), 4.1(3)

© 2021 Cisco and/or its affiliates. All rights reserved.

Switches	Supported Switch Releases
UCS Infrastructure and UCS Manager Software	4.2(1d), 4.0.4g, 4.1.1a, 3.2.3n, 4.0.4, 4.0.1, 3.2(3k), 2.2.5a

Note: The Cisco NX-OS version of the Cisco Nexus 2000 Series Fabric Extenders will be the same as the NX-OS version of the supported Nexus switch (that is, Cisco Nexus 5000, Cisco Nexus 7000, or Cisco Nexus 9000).

Compatibility Matrix for Cisco Nexus Dashboard and Applications

Cisco Nexus Dashboard and Services compatibility information for specific Cisco Nexus Dashboard, services, and fabric versions. See Cisco Nexus Dashboard and Services Compatibility Matrix.

For recommendation on Nexus Dashboard cluster sizing for co-hosting services, see the Nexus Dashboard Capacity Planning tool instead.

Supported Hardware

UCS Fabric Interconnect Integration

The following tables list the products and components that are supported in the Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.

Product/Component	Part Number
Cisco UCS Unified Computing System 6454 1RU In-Chassis FI with 36x10G/25G + 4x 1G/10G/25G + 6x40G/100G + 8 UP Ports	UCS-FI-6454-U
Cisco UCS Unified Computing System 6332 1RU In-Chassis FI with 16UP + 24x40G Fixed Ports	UCS-FI-6332-16UP
Cisco UCS Unified Computing System 6332 1RU In-Chassis FI with 32x40G Fixed Ports	UCS-FI-6332
Cisco UCS Unified Computing System 6324 In-Chassis FI with 4UP, 1x40G Exp Port	UCS-FI-M-6324
Cisco UCS Unified Computing System 6296UP 96-Unified Port Fabric Interconnect	UCS-FI-6296UP
Cisco UCS Unified Computing System 6248UP 48-Unified Port Fabric Interconnect	UCS-FI-6248UP

Cisco MDS 9000 Series Switches Family

The following tables list the products and components that are supported in the Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.

Product/Component	Part Number
Cisco MDS 9718 Supervisor-1E Modules	DS-X97-SF1-K9
Cisco MDS 9710 Crossbar Fabric-3 Switching Module	DS-X9710-FAB3
Cisco MDS 9700 Series Supervisor-4 Module	DS-X97-SF4-K9
MDS 9706 Crossbar Switching Fabric-3 Module	DS-X9706-FAB3

© 2021 Cisco and/or its affiliates. All rights reserved.

Product/Component	Part Number
Cisco MDS 9396T 32 Gbps 96-Port Fibre Channel Switch	DS-C9396T-K9
Cisco MDS 9148T 32 Gbps 48-Port Fibre Channel Switch	DS-C9148T-K9
Cisco MDS 9700 48-Port 32-Gbps Fibre Channel Switching Module	DS-X9648-1536K9
Cisco MDS 9700 64-Gbps 48-port Fibre Channel Switching Module	DS-X9748-3072K9
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 9220i Intelligent Fabric switch chassis, 12X32G FC+6IPS	DS-C9220I-K9
Cisco MDS 9506 Multilayer Director	DS-C9506
Cisco MDS 9509 Multilayer Director	DS-C9509
Cisco MDS 9513 Multilayer Director	DS-C9513
Cisco MDS 9706 Multilayer Director	DS-C9706
Cisco MDS 9710 Multilayer Director	DS-C9710
Cisco MDS 9718 Multilayer Director	DS-C9718
Cisco MDS 9000 32-Port 2-Gbps Fibre Channel Switching Module	DS-X9032
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

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

Product/Component	Part Number
Cisco MDS 9000 48-port 8-Gbps Advanced Fibre Channel Switching Module	DS-X9248-256K9
Cisco MDS 9000 4/44-Port Host-Optimized 8-Gbps Fibre Channel Switching Module	DS-X9248-48K9
Cisco MDS 9000 48-Port 8-Gbps Fibre Channel Switching Module	DS-X9248-96K9
Cisco MDS 9000 Family 14-Port Fibre Channel and 2-port Gigabit Ethernet Module	DS-X9302-14K9
Cisco MDS 9000 18/4-Port Multiservice Module (MSM-18/4)	DS-X9304-18K9
Cisco MDS 9000 4-port 1-Gbps IP Storage Module	DS-X9304-SMIP
Cisco MDS 9000 8-port 1-Gbps IP Storage Module	DS-X9308-SMIP
Cisco MDS 9000 Family 16-Port Storage Services Node (SSN-16)	DS-X9316-SSNK9
Cisco MDS 9000 Family 24/10 SAN Extension Module	DS-X9334-K9
Cisco MDS 9000 48-port 16-Gbps Fibre Channel Switching Module with SFP LC connectors	DS-X9448-768K9
Cisco MDS 9500 Series Supervisor-1 Module	DS-X9530-SF1-K9
Cisco MDS 9500 Series Supervisor-2 Module	DS-X9530-SF2-K9
Cisco MDS 9500 Series Supervisor-2A Module	DS-X9530-SF2A-K9
Cisco MDS 9000 Family 4-Port 10-Gbps Fibre Channel Switching Module	DS-X9704
Cisco MDS 9000 8-port 10-Gbps Fibre Channel over Ethernet (FCoE) Module	DS-X9708-K9
Cisco MDS 48-Port 10-Gigabit Fibre Channel over Ethernet (FCoE) Module with SFP LC connectors	DS-X9848-480K9
Cisco MDS 9132T 32-Gbps 32-Port Fibre Channel Switch	DS-C9132T-K9

Cisco Nexus 9000 Series Switches

The following tables list the products and components that are supported in the Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.

Product/Component	Part Number
Cisco Nexus 9000 Series Switches	
32P 40/100G QSFP28, 2P 1/10G SFP	N9K-C9332C
1RU 48x1/10GT + 6x40G/100G Ethernet Ports	N9K-C93180TC-FX
Cisco Nexus 7700 F4 40G Line card	Cisco Nexus 7700 F4 40G Line card
Cisco Nexus 9336C-FX2, 1RU, fixed-port switch	N9K-C9336C-FX2

© 2021 Cisco and/or its affiliates. All rights reserved.

Product/Component	Part Number
Cisco Nexus 9000 Fixed with 48p 1/10G/25G SFP and 12p 40G/100G QSFP28	N9K-C93240YC-FX2
32-port 100Gigabit EthernetQuad Small Form-Factor Pluggable 28 (QSFP28) line card	N9K-X9732C-FX
48-port 1 and 10GBASE-T plus 4-port 40/100Gigabit Ethernet QSFP 28 line card	N9K-X9788TC-FX
48-port 1 and 10GBASE-T plus 4-port 40/100Gigabit Ethernet QSFP 28-line card (BMA)	N9K-X9788TC2-FX
FabricModule for Nexus 9516 chassis 100G support (100G/flow), NX-OS and ACI Spine	N9K-C9516-FM-E2
FabricModule for Nexus 9504 R-Series LC, NX-OS only	N9K-C9504-FM-R
Fretta 48p 1/10/25G + 4p 100G Line card	N9K-X96160YC-R
100-Gigabit N9K-C9508-FM-E2 Fabric Module	N9K-C9508-FM-E2
48P 1/10/25G + 6x100G QSFP28 1RU	N3K-C36180YC-R
36 40/100G Ethernet module for Nexus 9500 Series	N9K-X9736C-FX
64x100G QSFP28 + 2x10GSFP 1RU	N9K-C9364C
36x100G Ethernet module for Nexus 9000 Series	N9K-X9636C-RX
1RU TOR, fixed module 48 100/1000Mbps + 4 25G SFP28 + 2 100G QSFP28	N9K-C9348GC-FXP
1RU TOR, fixed module 48 100/1000Mbps + 4 25G SFP28 + 2 100G QSFP28 (BMA)	N9K-C9348GC2-FXP
1RU TOR, fixed module 48 10/25G SFP28 + 6 40/100G QSFP28	N9K-C93180YC-FX
1RU TOR, fixed module 48 10/25G SFP28 + 6 40/100G QSFP28 (BMA)	N9K-C93180YC2-FX
1RU TOR, fixed module for Nexus 9300 Series 6 40G/100G QSFP28 + 48 10G BASE-T	N9K-C93108TC-FX
1RU TOR, fixed module for Nexus 9300 Series 6 40G/100G QSFP28 + 48 10G BASE-T (BMA)	N9K-C93108TC2-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-Fixed Module	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

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

Product/Component	Part Number
Cisco Nexus 9000 Series 40GE Modules	
N9K 32p 40G Ethernet Module	N9K-X9432PQ
36p 40G Ethernet Module	N9K-X9636PQ
36-port 40/100 Gigabit Ethernet QSFP28 line card	N9K-X9636C-R
24-port 400/100 Gigabit Ethernet QSFP-DD line card	N9K-X9624D-R2
Fabric Module for Cisco Nexus 9508 R2-Series line cards – Cisco NX-OS only	N9K-C9508-FM-R2
Cisco Nexus 9364D-GX2A Switch with 64p 400/100-Gbps QSFP-DD ports and 2p 1/10 SFP+ ports	N9K-C9364D-GX2A
Cisco Nexus 9332D-GX2B Switch with 32p 400/100-Gbps QSFP-DD ports and 2p 1/10 SFP+ ports	N9K-C9332D-GX2B
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

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

Product/Component	Part Number
Cisco Nexus 9300 Fixed Switches	
Nexus 9300 with 1-rack unit (RU), switch with following fixed ports: • 48 100M/1/10/25-Gigabit Ethernet SFP28 ports (ports 1-48). • 6 10/25/40/50/100-Gigabit QSFP28 ports (ports 49-54) • One management port (one 10/100/1000BASE-T port) • One console port (RS-232) • 1 USB port	N9K-C93180YC-FX3
Nexus 9300 with 48p 10G BASE-T and 6p 40G/100G QSFP28, MACsec capable	N9K-C93108TC-FX3P
Nexus 9300 with 48p 1/10G/25G SFP and 6p 40G/100G QSFP28, MACsec, and Unified Ports capable	N9K-C93180YC-FX3S
Nexus 9K Fixed with 96p 1/10G/25G SFP and 12p 40G/100G QSFP28	N9K-C93360YC-FX2
96p 100M/1/10GBASE-T and 12p 40G/100G QSFP28	N9K-C93216TC-FX2
Nexus 9200 with 48p 100M/1G Base-T ports and 4p 1/10/25G SPF28 and 2p 40/100G QSFP28	N9K-C92348GC-X
Nexus 9316D Spine and Leaf switch with 28p 100/40G QSFP28 and 8p 400/100G QSFP-DD	N9K-C93600CD-GX
Cisco Nexus 9364C ACI Spine Switch with 64p 40/100G QSFP28, 2p 1/10G SFP	N9K-C9364C-GX
Nexus 9316D Spine switch with 16p 400/100G QSFP-DD	N9K-C9316D-GX
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, 1RU box	N9K-C9372PX-E
Cisco Nexus 9396PX Switch	N9K-C9396PX
Cisco Nexus 9396TX Switch	N9K-C9396TX
Cisco Nexus 9372PX Switch	N9K-C9372TX
Cisco Nexus 9372PX Switch	N9K-C9372TX
Cisco Nexus 9372TX Switch	N9K-C9372TX
Cisco Nexus 9372TX Switch	N9K-C9372PX
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

© 2021 Cisco and/or its affiliates. All rights reserved.

Product/Component	Part Number
Cisco Nexus 9500 Modular Chassis	
New fabric module for the Cisco Nexus 9516 Switch chassis	N9K-C9516-FM-E
40/100G Ethernet Module 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 chassis	N9K-C9504-FM-G
Fan tray for Nexus 9504 chassis	N9K-C9504-FAN2
Fabric Module for Nexus 9504 with 100G support, NX-OS only	N9K-C9504-FM-S
Fan tray for Nexus 9508 chassis	N9K-C9508-FAN2
Fabric Module for Nexus 9508 chassis 100G support, NX-OS, and ACI spine	N9K-C9508-FM-E
Fabric Module for Nexus 9508 chassis	N9K-C9508-FM-G
Fabric Module for Nexus 9508 chassis 100G support, NX-OS only	N9K-C9508-FM-S
Cisco Nexus 9500 16p 400G QSFP-DD cloud-scale line card	N9K-X9716D-GX

Cisco Nexus 7000 Series Switches

The following tables list the products and components that are supported in the Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.

Product/Component	Part Number
Supported Chassis	
CiscoNexus7702 chassis	N77-C7702
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

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

Product/Component	Part Number
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
Cisco Nexus 7700 Supervisor 3	N77-SUP3E
Supported F Line Cards	
Cisco Nexus 7700 Fabric module 3	N77-C7706-FAB-3, N77-C7710-FAB-3
LC, N77, FANGIO CB100, 30PT, 40GE, zQFSP+	N77-F430CQ-36
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

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

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

Cisco Nexus 6000 Series Switches

The following tables list the products and components that are supported in the Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.

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

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Nexus 5000 Series Switches

The following tables list the products and components that are supported in the Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.

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 1RU, -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

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

Cisco Nexus 3000 Series Switches

The following tables list the products and components that are supported in the Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.

Product/Component	Part Number
Quad Small Form-Factor Pluggable – Double Density (QSFP-DD) switch with 32 ports	N3K-C3432D-S
Nexus 3408-S switch with 32 ports of QSFP-DD	N3K-C3408-S
1RU 48 x SFP+/SFP28 and 6 x QSFP+/QSFP28	N3K-C34180YC
Cisco Nexus 34200YC-SM Switch with top-of-rack, Layer 2 and 3 switching	N3K-C34200YC-SM
1RU 32-Port QSFP28 10/25/40/50/100 Gbps	N3K-C3132C-Z
Nexus 3548-XL Switch, 48 SFP+	N3K-C3548P-XL
Nexus 3264C-E switch with 64 QSFP28	N3K-C3264C-E
Cisco Nexus 3132Q Switch	N3K-C3132C-Z
Cisco Nexus 3132Q-V Switch	N3K-C3132Q-V
Nexus 34180YC programmable switch, 48 10/25G SFP, and 6 40/100G QSFP28 ports	N3K-C34180YC
Cisco Nexus 3464C Switch, 64 x QSFP+/QSFP28 ports and 2 x SFP+	N3K-C3464C
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-10GX
Cisco Nexus 3636C-R Switch	N3K-C3636C-R

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential

Cisco Nexus 2000 Series Fabric Extenders

The following tables list the products and components that are supported in the Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.

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

Supported Non-Nexus Devices

- Cisco ASR 1001-X
- Cisco ASR 1002-HX
- Cisco ASR-9001
- Cisco Catalyst 9300-48U
- Cisco Catalyst 9300-24T
- Cisco Catalyst 9300-48P
- Cisco Catalyst 9500-48YC
- Cisco Catalyst 9500-32C
- Cisco CSR 1000v
- Cisco NCS 5501
- Arista DCS-7050SX3-48YC12

© 2021 Cisco and/or its affiliates. All rights reserved.

Supported IBM Directors and Switches

- IBM SAN192C-6 8978-E04 (4 Module) SAN Director
- IBM SAN384C-6 8978-E08 (8 Module) SAN Director
- IBM SAN768C-6 8978-E16 (16 Module) SAN Director
- IBM SAN50C-R 8977-R50 50-Port SAN Extension Switch
- IBM SAN32C-6 8977-T32 32X32G FC SAN Switch
- IBM SAN48C-6 8977-T48 48X32G FC SAN Switch
- IBM SAN96C-6 8977-T96 96X32G FC SAN Switch
- IBM SAN16C-R 8977-R16 SAN Switch

Resolved Issues

There are no Resolved Caveats for Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.

Open Issues

The following table lists the Open bugs for Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a. Click the bug ID to access the Bug Search tool and see additional information about the caveat.

Bug ID	Description
CSCvw79080	Traffic loss observed on manual RMA after deploy of pending configs to the replacement device
CSCvy36545	Overlay mode CLI: Preview config for multiple networks are clubbed based on parent command
CSCvz37763	Persistent diffs generated when route-map is added under ipv4 address-family in the VRF freeform
CSCvz39076	Extra space generated on network attachment post upgrade to NDFC 12
CSCvz59677	Diffs seen on save and deploy after BF import
CSCvz62500	Infra: SAN Insights feature is stopped, related pods are still running
CSCvz64869	Fabric validation in network/VRF Import
CSCvz67646	[PMN Soln] proper error message when the switch bootflash is full
CSCvz70009	NDFC Sanity: Pending Config After deletion of Port-channels in IOSXE and External Fabric
CSCvz70302	Enable Smart licensing is taking more time than expected in VND/PND Setup
CSCvz73059	Regression EPL: upon resync, RR disconnect notification is not cleared with RR connect notification
CSCvz76845	NDFC Sanity: ST, AA FEX ICONS in Topology Screen after restore
CSCvz78566	In the topology when we search in the filter, the menu bar is stuck
CSCvz78604	NDFC Sanity: Network Status is pending after network deployment in eBGP Routed Fabric
CSCvz78690	SAN-Restore: Fabric missing in SAN-Fabrics post Restore from 11.5. Shows up in Topology.

© 2021 Cisco and/or its affiliates. All rights reserved.

Bug ID	Description
CSCvz79870	Edit of VRF Post-upgrade to 12.0 fails if the custom template has parameters issue

Related Content

The Cisco Nexus Dashboard Fabric Controller documentation can be accessed from the following website:

https://www.cisco.com/c/en/us/support/cloud-systems-management/nexus-dashboard-fabric-controller-12/model.html

Navigating the Cisco Nexus Dashboard Fabric Controller Documentation

The following table describes and provides links to the user documentation available for Cisco Nexus Dashboard Fabric Controller. To find a document online, use one of the links in this section.

Document Title	Description
Cisco Nexus Dashboard Fabric Controller Release Notes, Release 12.0.1a	Provides information about the Cisco Nexus Dashboard Fabric Controller software release, open caveats, and workaround information.
Cisco Nexus Dashboard Fabric Controller Compatibility Matrix, Release 12.0.1a	Lists the Cisco Nexus and the Cisco MDS platforms and their software releases that are compatible with Cisco Nexus Dashboard Fabric Controller.
Cisco Nexus Dashboard Fabric Controller Verified Scalability Guide, Release 12.0.1a	Lists the supported scalability parameters for Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.
Cisco Nexus Dashboard Fabric Controller Configuration Guides	These configuration guides provide conceptual and procedural information on the Cisco Nexus Dashboard Fabric Controller Web GUI. • Cisco Nexus Dashboard LAN Fabric Controller Configuration Guide, Release 12.0.x • Cisco Nexus Dashboard SAN Fabric Controller Configuration Guide, Release 12.0.x
Cisco Nexus Dashboard Fabric Controller Installation Guide, Release 12.0.1a	These documents guide you to plan your requirements and deployment of the Cisco Nexus Dashboard Fabric Controller.
Software Upgrade Paths for Cisco Nexus Dashboard Fabric Controller 12.0.1a	Lists the software upgrade paths that are supported for Cisco Nexus Dashboard Fabric Controller.
Cisco Nexus Dashboard Fabric Controller Open Source Licensing, Release 12.0.1a	Provides information about the Cisco Nexus Dashboard Fabric Controller Open Source Licensing, Release 12.0.1a.

Platform-Specific Documents

The documentation set for platform-specific documents that Cisco Nexus Dashboard Fabric Controller manages includes the following:

Cisco Nexus 2000 Series Fabric Extender Documentation

https://www.cisco.com/c/en/us/products/switches/nexus-2000-series-fabric-extenders/index.html

Cisco Nexus 3000 Series Switch Documentation

https://www.cisco.com/c/en/us/support/switches/nexus-3000-series-switches/series.html

© 2021 Cisco and/or its affiliates. All rights reserved.

Cisco Nexus 4000 Series Switch Documentation

https://www.cisco.com/c/en/us/support/switches/nexus-4000-series-switches/series.html

Cisco Nexus 5000 Series Switch Documentation

https://www.cisco.com/c/en/us/support/switches/nexus-5000-series-switches/series.html

Cisco Nexus 6000 Series Switch Documentation

https://www.cisco.com/c/en/us/support/switches/nexus-6000-series-switches/series.html

Cisco Nexus 7000 Series Switch Documentation

https://www.cisco.com/c/en/us/support/switches/nexus-7000-series-switches/series.html

Cisco Nexus 9000 Series Switch Documentation

https://www.cisco.com/c/en/us/support/switches/nexus-9000-series-switches/series.html

Cisco Nexus Dashboard and Services Documentation

- Cisco Nexus Dashboard User Guide, Release 2.1.1
- Cisco Nexus Dashboard Deployment Guide, Release 2.1.1
- Cisco Nexus Dashboard Capacity Planning
- Cisco Nexus Dashboard and Services Compatibility Matrix

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.

You can also use the feedback form available in the right pane of every online document. We appreciate your feedback.

Legal Information

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: http://www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

© 2021 Cisco Systems, Inc. All rights reserved.