

Overview

HPE StoreFabric Data Center Network Manager (DCNM)

HPE StoreFabric Data Center Network Manager (DCNM) is designed to help you efficiently implement, visualize, and manage C-series Fabrics. It includes a comprehensive feature set, along with a customizable dashboard that provides enhanced visibility and automated fabric provisioning of dynamic data centers. DCNM is the recommended management system for C-series. It helps customers provision, monitor, and troubleshoot data center network infrastructure. It provides visibility and control of the unified data center enabling service providers and IT departments to optimize for the quality of service (QoS) required to meet service-level agreements (SLAs) for internal and external customers.

DCNM increases overall data center infrastructure uptime and reliability, hence improving business continuity. Focused on supporting efficient operations and management of virtual machine-aware (VM-aware) fabrics, DCNM provides a robust framework and comprehensive feature set that meets the routing, switching, and storage administration needs of present and future virtualized data centers. DCNM streamlines the provisioning the unified fabric and proactively monitors the SAN and LAN components. Offering an exceptional level of visibility and control through a single management console, or "single pane of glass," for C-series product families.

Feature List

- **Event Management**
 1. Provides real-time network health summary with detailed view of individual network components, enabling operations staff to respond quickly to events based on their severity
 2. Ability to Acknowledge working on the alert and when resolved delete it
 - o Forward syslog alerts based on monitored facility
- **Web Templates**
 1. Pre-built Templates for provisioning LAN and SAN components
 2. Pre-built Template deployment scheduler and rollback mechanism
 3. Customizable Templates with conditional statements
 4. Create new templates using template editor
 5. Import configuration script and turn it into Template
- **Dashboards**
 1. Provides operational monitoring views of SAN, LAN and Server environments
 2. Domain driven dashboards for host, storage and switch
 3. Context driven searches launch within domain dashboards
- **Performance and Capacity**
 1. Provides detailed visibility into real-time and historical performance statistics in the data center
 2. Provides insight into port and bandwidth utilization, error count, traffic statistics, etc.
 3. Includes scheduled custom reports that can be offloaded for post processing
- **Capacity Manager**
 1. Track port utilization by port tier and predict when an individual tier pool will be consumed
 2. Chart view of port consumption based on custom groupings
- **VMpath Analysis for LAN and SAN**
 1. Provides view of virtual machine path through physical network to storage array and to the data store
 2. Provides capability to view performance for every switch hop all the way to the individual VMware ESX server and virtual machine
- **Topology Views**
 1. Displays real-time operationally focused topology of the data center infrastructure
 2. Offers Layer 2 overlay topology maps to streamline the troubleshooting process and reduce the mean time to repair; roll the cursor over the topology to view detailed information about paths and switch attributes
- **Reports**
 1. Let you build custom reports from predefined templates
 2. Provides easy-to-schedule reports that can be exported for post processing or sent by email

Overview

- **Automated Discovery**
 1. Using automated network discovery, provides up-to-date physical and logical inventory information
 2. Tracks inventory and performance information in real time; information can be used as a source of truth for asset tracking or as a data source for a configuration management database (CMDB)
- **Configuration and Change Management**
 1. Provides pre-deployment validation of configuration changes, reducing opportunities for human error
 2. Using historical configuration archive coupled with configuration comparison, enables you to identify the last-known good state if configuration problems occur
 3. Provides capability to back up configuration files from all switches
- **Image Management**
 1. Enables easy-to-perform, non-disruptive (In-Service Software Upgrade [ISSU]) mass deployment of Cisco NX-OS Software images, which can be scheduled or run on demand

Ordering Information

HPE StoreFabric Data Center Network Manager	HP StoreFabric SN6000C Data Center Network Manager LTU	TC364A
	HP StoreFabric SN6500C Data Center Network Manager LTU	TC365A
	HP StoreFabric SN8000C Data Center Network Manager LTU	TC368A
	HP StoreFabric SN8500C Data Center Network Manager LTU	TC470A
	HP StoreFabric Data Center Network Manager BladeSystem LTU	TC367A

Applicable Switch Model	Description	HPE P/N
MDS9124, MDS9134, MDS9148, MDS9148S	HP StoreFabric SN6000C Data Center Network Manager LTU	TC364A
HPE MDS9222i , MDS9250i	HP StoreFabric SN6500C Data Center Network Manager LTU	TC365A
MDS9506, MDS9509, MDS9513	HP StoreFabric SN8000C Data Center Network Manager LTU	TC368A
MDS9706, MDS9710	HP StoreFabric SN8500C Data Center Network Manager LTU	TC470A
HPE MDS 8/12c & 8/24c BladeSystem Fabric Switch	HP StoreFabric Data Center Network Manager BladeSystem LTU	TC367A

Customer Benefits

- Offers intuitive, large-scale fabric visualization along with domain views
- Provides cable plan validation and detection
- Features a centralized image and configuration repository
- Helps you resolve problems faster.

Service and Support, HPE Care Pack and Warranty Information

Software Prerequisites	Cisco Data Center Network Manager	Refer to Cisco Data Center Network Manager Release Notes http://www.cisco.com/en/US/products/ps5989/prod_release_notes_list.html
	Java Virtual Machine	Refer to Cisco Data Center Network Manager Release Notes http://www.cisco.com/en/US/products/ps9369/prod_release_notes_list.html
	Windows®	Refer to Cisco Data Center Network Manager Release Notes http://www.cisco.com/en/US/products/ps9369/prod_release_notes_list.html
	Red Hat Linux	Refer to Cisco Data Center Network Manager Release Notes http://www.cisco.com/en/US/products/ps9369/prod_release_notes_list.html

Hardware Prerequisites Refer to Cisco Data Center Network Manager Release Notes
http://www.cisco.com/en/US/products/ps9369/prod_release_notes_list.html

Software Licensing Data Center Network Manager is licensed per MDS 9000 series switch. DCNM licenses are hosted on the server and not the switch. All prior Cisco Fabric Manager licenses will be accepted for this model, and customers do not need to order or deploy any additional licenses to manage their existing Cisco MDS 9000 Family switches with Fabric Manager licenses.

For the latest support details for DCNM and NX-OS, refer to the HPE Single Point of Connectivity Knowledge (SPOCK) website at: <http://www.hp.com/storage/spock>. You must sign up for an Hewlett Packard Enterprise Passport to be granted access.

Software Warranty Hewlett Packard Enterprise warrants that the software media will be free of physical defects for a period of 90 days from delivery.

HPE Care Pack Services: Packaged server and storage services for increased uptime, productivity and ROI. When you buy HPE server and storage products and solutions, it's also a good time to think about what levels of support you may need. Our portfolio of service options reduce deployment and management worries while helping you get the most out of your server and storage investments. We take a holistic approach to your environment, bridging servers, blades, storage, software and network infrastructures with our packaged HPE Care Pack Services for servers and storage.

Protect your business beyond warranty

When it comes to robustness and reliability, standard computing equipment warranties have matured along with technology. Good news that can also create problems stemming from depending on standard warranties designed to only protect against product defects and some downtime causes. Using a standard approach to warranty uplifts, such as HPE Care Pack Services, helps reduce downtime risks and provides operational consistency for mission-critical and standard business computing.

HPE Care Pack Services: Upgrading or extending standard server and storage warranties cost effectively

HPE Care Pack Services offer a standard reactive hardware and software support services suite sold separately, or combined with our Support Plus and Support Plus 24 services. The portfolio also provides a combination of integrated proactive and reactive services, such as Proactive 24 Service and Critical Service. In addition with HPE Proactive Select, you can acquire the specific proactive constancy and technical services. HPE Proactive Select menu offers a broad set of service options that you can mix and match depending on your specific requirements. Proactive service options include offers for server, storage, network, SAN device, software, environment and education services.

HPE server and storage lifecycle support services offers a full spectrum of customer care-from technology support to complex migrations to complete managed services. HPE Factory Express provides customization, integration and deployment services for turnkey solutions. HPE Education Services offer flexible, comprehensive training on to help your IT staff get the most out of your server and storage investments. HPE Financial solutions extend innovative financing and cost-effective asset management

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programs-from purchase to equipment retirement.

Learn more: <http://www.hp.com/services/servers> and <http://www.hp.com/services/storage>

NOTE: Care Pack Services availability may vary by product and country.

HPE Care Pack Services are sold by HPE and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find HPE Care Pack Services at: <http://www.hp.com/go/lookuptool>

Recommended HPE Care Pack Services for optimal satisfaction with your HPE product.

HPE Foundation Care 24x7 Service

HPE Foundation Care 24x7 connects you to Hewlett Packard Enterprise 24 hours a day, seven days a week for assistance on resolving issues - hardware onsite response within four hours and software call back within two hours after opening your case. Three years' coverage recommended with HPE Care Pack Service.

Product is customer installable

HPE Assessment Service for SANs

The HPE Assessment Service for SANs offers customized technical and operational guidance to customers employing HPE storage subsystems and the interconnecting storage area network (SAN) infrastructure. In a typical engagement, HPE or one of our authorized business partners will perform a detailed discovery using HPE's proprietary toolset to gain an understanding of the configuration of your storage devices and SAN topology.

The findings from this process will be compared to HPE best practices and industry standards as defined by IT Service Management (ITSM) disciplines. The results of the evaluation will be quickly and efficiently processed into information you can leverage. This information, in the form of a comprehensive HPE SAN Assessment report, will be summarized by HPE or one of our authorized business partners with recommendations that are intended to improve availability levels and ongoing management of your storage and SAN environment.

- Recommendations to optimize your customer's SAN based on comprehensive discovery information
- Decrease the potential for unplanned downtime and encourage higher productivity by exposing single points of failure and other potential SAN configuration issues
- Clear documentation allows for optimal SAN management, more efficient future SAN implementations and lower IT staff involvement
- Service requires no SAN downtime and is easily adapted as a periodic review to help keep SANs performing efficiently as business evolves

<https://www.hpe.com/h20195/v2/getpdf.aspx/4aa1-2941enw.pdf>

Optional HPE Care Pack Services that will enhance your HPE product experience.

5-Year HPE Support Plus 24

As an alternative to our recommended support level, for customers who need to improve uptime with responsive 24x7 product support:

HPE Support Plus 24 helps you increase performance and availability with comprehensive, consistent hardware and software services. Working with your IT team, HPE Services engineers deliver onsite hardware support and over-the-phone software support around-the-clock 365 days per year. Service coverage encompasses Hewlett Packard Enterprise products and selected multivendor hardware and software.

In addition, this convenient HPE Care Pack packaged service makes software updates available to you at substantial savings.

Service and Support, HPE Care Pack and Warranty Information

Choose Support Plus 24 when you need to:

- Improve uptime with responsive hardware and software services available anytime
- Cost-effectively obtain expert 24x7 multivendor hardware and software support
- Enjoy consistent service coverage across geographically dispersed sites
- Update HPE and selected third-party software at a predictable cost
- Take advantage of subscription savings on software updates

<https://www.hpe.com/h20195/v2/getpdf.aspx/5981-6638en.pdf>

HPE Enhanced Implementation Service for SANs

For customers who are building a new or expanding an existing Fibre Channel, FCOE, FCIP, SAS or iSCSI SAN:

HPE Enhanced Implementation Service for SANs - For customers who are building a new SAN or expanding their existing one, we offer the HPE Enhanced Implementation Service for SANs. This provides complete design and implementation services for Fibre Channel, FCOE, FCIP, SAS and iSCSI SAN connectivity components.

<https://www.hpe.com/h20195/v2/getpdf.aspx/5981-8527en.pdf>

eSupport

HPE eSupport is a portfolio of technology-based services that assist you with managing your business environment - from the desktop to the data center.

Support Portal

The HPE support portal provides one-stop access to the information, tools and services you need to manage the daily operations of your IT environment.

Features include:

- Access to self-solve tools (including search technical knowledge base)
- Efficient logging and tracking of support cases
- Collaboration with other business and IT professionals
- Download of patches and drivers
- Access to diagnostic tools
- Proactive notification of relevant information

Access to certain features of the support portal requires an HPE service agreement. To access the support portal, visit

<http://www.hp.com/support>

Customer Technical Training

HPE Education Services

In today's cost-conscious business environment, IT professionals, developers, consultants and users face an interesting challenge: how to keep up with the latest technologies and expand important skills while delivering profitable results on current projects. To help address this challenge, Hewlett Packard Enterprise offers innovative training solutions that help keep you up-to-date on virtualization, server, storage, Insight Control, Citrix, Microsoft® and open source/Linux-related topics-while spending less time away from business-critical activities.

HPE Services Awards

HPE Technology Services continues to be recognized for service and support excellence by customers, partners, industry organizations and publications around the world. Recent honors and award reflect our services team's dedications, technical expertise, professionalism and uncompromising commitment to customer satisfaction.

Additional Services Information

To learn more on HPE ProLiant servers, HPE BladeSystem servers and HPE storage products, please contact your Hewlett Packard

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Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Or visit

<http://www.hp.com/services/proliant> or <http://www.hp.com/services/bladesystem> or <http://www.hp.com/services/storage>

Summary of Changes

Date	Version History	Action	Description of Change
14-Oct-2016	From version 3 to 4	Changed	Rebranding edition
10-Jul-2015	From Version 2 to 3	Changed	Included MDS9250i and MDS9706 switches, Update SKUs descriptions
09-May-2014	From Version 1 to 2	Changed	Recommended HPE Care Pack Services was revised.



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