

Overview

The "Standard" Cisco Fabric Manager software that is included at no charge with the MDS switches provides basic switch configuration and troubleshooting capabilities. The Cisco Fabric Manager Server (FMS) Package extends Cisco Fabric Manager by providing historical performance data collection for network traffic hot-spot analysis, centralized management services and advanced application integration.

Feature List

- Centralized, Multiple physical fabric management
 - Fabric discovery services
 - Continuous MDS health and event monitoring
 - Long term historical Fibre Channel performance monitoring and reporting
 - Custom performance reports and charting for hotspot analysis
 - Historical Performance Monitoring
 - Performance prediction
 - Performance threshold monitoring
 - Fabric Manager Web Client for operational view
 - Fabric Manager server proxy services
 - Server performance summary report
 - Configurable RRD collection parameters
 - Data collection auto update
 - Event forwarding
 - Filtering by user-defined groups
 - Custom Reports Enhancements
 - Fabric Analysis Report
 - Threshold Configuration Flexibility
 - Web-based operational view
 - Roaming User Profiles
 - Traffic Analyzer for SCSI Flow Statistics
 - Fabric Manager Server federation
 - Performance statistics in web client
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Ordering Information

Cisco Fabric Manager	MDS Fabric Manager Server license for 1 MDS series switch for HP BladeSystem c-Class	TC316A
	MDS Fabric Manager Server & Enterprise Package license bundle for 1 MDS series switch for HP BladeSystem c-Class	TC318A
	MDS 9100 Fabric Manager Server license for 1 MDS 9100 series switch	A7512A
	MDS 9200 Fabric Manager Server license for 1 MDS 9200 series switch	A7513A
	MDS 9500 Fabric Manager Server license for 1 MDS 9500 series switch	A7514A

Customer Benefits

- Hot spots that can limit bandwidth performance within a fibre channel interconnect can be monitored.
 - Historical switch link performance data can be recorded for analysis. Action can be taken to limit bandwidth issues.
 - Fabric Management can be centralized.
 - Multiple clients can access the same management information.
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Features/Functionality

FC Statistics Monitoring	Performance statistics for inter-switch links (ISLs), host and storage device connections, and traffic between specific Fibre Channel sources and destinations (Route Flows) are monitored continuously with Cisco FMS.	
Reporting, Graphing	Historical performance reports and graphs over daily, weekly, monthly, and yearly intervals are available for network hot-spot analysis. Top 10 and daily summary reports for all ISLs, hosts and storage connections, and Route Flows present fabric wide statistics.	
Management Server	A management server can be set up to continuously run Fabric Manager services. Up to 8 clients (user interface) can access the management server.	
Multiple Fabric Management	Multiple fibre channel fabrics can be monitored by each management server. No need to open multiple copies of Fabric Manager for each fabric.	
Intelligent Setup	Wizards are provided to quickly select information to monitor, setup Route Flows and estimate performance database storage requirements. After initial configuration, host and storage device selections automatically adapt to switch port changes to maintain performance history continuity.	
Software Prerequisites	Cisco Fabric Manager	Refer to Cisco Fabric Manager Release Notes http://www.cisco.com/en/US/products/ps5989/prod_release_notes_list.html
	Java Virtual Machine	Refer to Cisco Fabric Manager Release Notes http://www.cisco.com/en/US/products/ps5989/prod_release_notes_list.html
	Windows®	Refer to Cisco Fabric Manager Release Notes http://www.cisco.com/en/US/products/ps5989/prod_release_notes_list.html
	Solaris	Refer to Cisco Fabric Manager Release Notes http://www.cisco.com/en/US/products/ps5989/prod_release_notes_list.html
	Red Hat Linux	Refer to Cisco Fabric Manager Release Notes http://www.cisco.com/en/US/products/ps5989/prod_release_notes_list.html
Hardware Prerequisites	Refer to Cisco Fabric Manager Release Notes http://www.cisco.com/en/US/products/ps5989/prod_release_notes_list.html	
Distribution Media	Cisco Fabric Manager Server Package is a firmware resident Java based application within an MDS 9000 series switch. The server portion of the application is installed from the switch to PC.	
Software Licensing	Cisco Fabric Manager Server Package is licensed per MDS 9000 series switch	

Service and Support, HP Care Pack and Warranty Information

Software Warranty

HP warrants that the software media will be free of physical defects for a period of 90 days from delivery.

HP Care Pack Services: Packaged server and storage services for increased uptime, productivity and ROI

When you buy HP 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 HP 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 HP Care Pack Services, helps reduce downtime risks and provides operational consistency for mission-critical and standard business computing.

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

HP 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 HP Proactive Select, you can acquire the specific proactive constancy and technical services. HP 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.

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

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

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

HP Care Pack Services are sold by HP and HP Authorized Service Partners:

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

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

HP Foundation Care 24x7 Service

HP Foundation Care 24x7 connects you to HP 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 HP Care Pack Service.

Product is customer installable

HP Assessment Service for SANs

Service and Support, HP Care Pack and Warranty Information

The HP Assessment Service for SANs offers customized technical and operational guidance to customers employing HP storage subsystems and the interconnecting storage area network (SAN) infrastructure. In a typical engagement, HP or one of our authorized business partners will perform a detailed discovery using HP'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 HP 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 HP SAN Assessment report, will be summarized by HP 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

<http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA1-2941ENW.pdf>

HP Enhanced Implementation Service for SANs

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

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

<http://h20195.www2.hp.com/v2/GetPDF.aspx/5981-8527EN.pdf>

eSupport

HP 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 HP 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 HP service agreement. To access the support portal, visit

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

Service and Support, HP Care Pack and Warranty Information

Customer Technical Training

HP 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, HP 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.

HP Services Awards

HP 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 HP ProLiant servers, HP BladeSystem servers and HP storage products, please contact your HP sales representative or HP Authorized Channel Partner. Or visit www.hp.com/services/proliant or www.hp.com/services/bladesystem or <http://www.hp.com/services/storage>

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