

Overview

HP StorageWorks High Availability Fabric Manager Appliance (HAFM Appliance) is a comprehensive storage network management application that enables you to configure and manage your M-Series switches (i.e., Director and Edge Switch products). With its powerful configuration tools, you can control numerous M-Series directors and switches from a single console, simplifying the administration of your storage network infrastructure. HAFM maximizes the ability of your storage network and minimizes potential SAN downtime. With its real-time monitoring and notification capabilities, you can stay on top of critical events that could impact your storage network infrastructure. Proactive alerts like call home and e-mail notification keep you aware of the operational status of your SAN anytime and anywhere.

With version 8.02 of HAFM and later, there will be three complimentary software modules offered. They are Performance Monitoring, Event Management and SAN Planning. HAFM V7.02 was the first version of HAFM that requires an appliance/1U server. It is not supported on the laptop servers supported under earlier versions of HAFM.

HAFM can be purchased in 2 ways:

1. For first-time customers, HAFM should be purchased with the appliance server (HAFM Appliance).
2. For existing customers, an HAFM upgrade kit may be purchased (requires the previous purchase of the HAFM Appliance).

NOTE: HAFM is a requirement for the HP StorageWorks Director 2/64 and the HP StorageWorks Director 2/140. HAFM is optional for the HP StorageWorks Edge Switch 2/32, HP StorageWorks Edge Switch 2/24 and McDATA 4Gb SAN Switch for HP p-Class BladeSystem.

NOTE: To use HAFM to manage the HP StorageWorks Edge Switch 2/32, HP StorageWorks Edge Switch 2/24, or McDATA 4Gb SAN Switch for HP p-Class BladeSystem an Element Manager License for the particular switch must be in place. The Element Manager provides graphical views of hardware components and displays of component status.

What's New

HAFM 8.8 now offers:

- Integrated enterprise-level management support of McDATA 4Gb SAN Switch for p-Class BladeSystem via McDATA 4Gb SAN Switch for p-Class BladeSystem Element Manager. Manage M-Series directors and switches along with McDATA 4 Gb SAN Switch for p-Class BladeSystem from a single console

Models

High Availability	HA Fabric Manager Appliance FIS HAFM	A7489A
Fabric Manager	HAFM Fabric Manager Software Upgrade	A7490A
Models	HA Fabric Manager Appliance	A7509A

Features

Product Features

- Enables M-Series Fabric Management from a single console, an appliance
- Manages up to 48 McDATA Switches
- Delivers enterprise class scalability without compromising performance
- Offers complete zoning, diagnostics and even management tools
- Streamlines troubleshooting via proactive alerts with phone home, pager, and email notification

Overview

Optional Software Modules

- **SAN Planning:** Allows for the evaluation of the effects of a new device deployment or plan for a completely new storage network using a set of best practices configuration rules.
- **Performance Monitoring:** Allows for measuring and graphically displaying performance statistics, historic metrics and future trends of every switch port on your SAN.
- **Event Management:** Defines and monitors specific conditions and event within the fabric, and then triggers actions, such as report generation or pager alerts, when the conditions occur.

NOTE: Both the Performance Monitoring and Event Management Modules are issued licenses that support 512 ports. Incremental licenses to support additional 64 port increments are available. These modules are also offered as a bundle and at a reduced price.

Optional Management Software Licenses

Element Manager 2/24	A7496A
Element Manager 2/32	A7497A
McDATA 4Gb SAN Switch Element Manager	T4298A

Customer Benefits

Product improvements

- HAFM 8.8 enhances support of the enterprise SAN infrastructure by adding support for consistent, integrated management of the McDATA 4Gb SAN Switch for HP p-Class BladeSystem

Performance Monitoring

- Provides instant awareness of any storage degradation or failure.

Event Management

- Reduces manual intervention and helps make the most efficient use of your storage network. The automation of routine tasks allows you to focus on other important issues.

SAN Planning

- Helps you design a scalable cost effective storage network, verifies storage network models before you implement them, improving ROI.

Simplified Management

- Fewer dialogs to navigate. Better task flow. Much cleaner look and feel.

Role Based Access Control (RBAC)

- Better manage administrative workload by assigning responsibilities and areas of management to specific administrators/users

Improved Zoning

- Easier navigation, invocation and better user feedback

Improved Import/Export

- Allows user to take "snap-shot" of fabric for reporting and documentation purposes, or to convey SAN information to tech support for problem diagnosis

Software Support

Software Licenses License Entitlement Certificates will accompany each software offering

Distribution Media HAFM is distributed via CD and factory-installed on the HP StorageWorks HAFM Appliance.

Hardware Support

Hardware Pre-Requisites HAFM v7.02 and later require the HAFM Appliance

Supported Devices HAFM will support the following M-Series Switches:

- HP StorageWorks Director 2/140
- HP StorageWorks Director 2/64
- HP StorageWorks Edge Switch 2/32
- HP StorageWorks Edge Switch 2/24
- McDATA 4Gb SAN Switch for HP p-Class BladeSystem
- HP StorageWorks Edge Switch 2/16
- HP StorageWorks SAN Director 64
- HP SureStore Director fc-64

NOTE: HAFM does not support the HP StorageWorks Edge Switch 2/12.

NOTE: To be supported by HAFM, HP StorageWorks Edge Switch 2/32, HP StorageWorks Edge Switch 2/24 and McDATA 4Gb SAN Switch for HP p-Class BladeSystem require the purchase of an Element Manager license.

Service and Support Care Pack and Warranty Information

Warranty HP warrants only that the Software media will be free of physical defects for a period of ninety (90) days from delivery.
EXCLUSIVE REMEDY. The entire liability of HP and its suppliers and your exclusive remedy for Software that does not conform to this Limited Warranty shall be the repair or replacement of the defective media. This warranty and remedy are subject to your returning the defective media during the warranty period to HP in the country in which you obtained the Software.

Software Support Services Included with the Product Includes one year standard business hours, standard business days support (software technical support and software product and documentation updates).

Software Product Services One year of HP Software Support standard business hours/standard business days (includes software technical support and software product and documentation updates). With the HAFM product update, A7490A, telephone support and software product and documentation updates are available for purchase from HP Services, but are not included with the product.

Additional information about HP Care Pack Service features and benefits is available at <http://www.hp.com/hps/carepack/services/>

Hardware Product Services

- Installation services
- On-site maintenance (includes warranty support)
- Response time upgrades during the warranty period
- Post-warranty coverage
- RAID setup and performance consulting via statement of work

For additional hardware installation and maintenance information, please refer to the URL's listed below:
<http://h18005.www1.hp.com/services/carepaq/us/install/>
<http://h18005.www1.hp.com/services/carepaq/us/hardware/>

HP Care Pack Service and Warranty Upgrade Options Service offerings include a full range of Customer HP Care Pack services for both hardware and software services:

- Response - Upgrade on-site response from next business day to same day 4-hours
- Coverage - Extend hours of coverage from 5 days x 13 hours to 7 days x 24 hours
- Duration - Select duration of coverage for a period of 1, or 3 years

NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

HP Care Pack Information HP Care Pack is defined as an upgrade to the product warranty attribute, available for a specific duration and hours of coverage.

- HP Care Pack is not available for less than the product's warranty duration.
- HP Care Pack is available for sale anytime during the warranty period for most products, but the commencement date will be the same as the Warranty Start Date (delivery date to end user customer). Proof of purchase may be required.
- HP Care Pack services are prepaid.

For additional HP Care Pack (hardware & software) information, as well as orderable part numbers, please refer to the URL listed below:

<http://h18005.www1.hp.com/services/carepaq/index.html>

Service and Support Care Pack and Warranty Information

Components

The following brick level options/components do not have individual HP Care Pack Services. These items will be included in product HP Care Pack Services into which they are installed.

Disk Drives	Tape Drives	CD/DVD ROM	SCSI Hubs in SBBs	Adapters
Bus Converters	Backplane RAID Controllers	Power Supplies	Cabling	Fans

Optional Software

Optional Software Modules	Event Management	A7493A
	Performance Monitoring	A7492A
	Event Management/ Performance Monitoring Bundle	A7507A
	SAN Planning	A7491A
	Event Management 64 port Upgrade	A7495A
	Performance Monitoring 64 port Upgrade	A7494A
	Event Management/ Performance Monitoring 64 port Upgrade	A7508A

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