release notes

HP MPIO Full Featured DSM for MSA1000/1500 Disk Arrays 1.00.02

Part number: AA-RW8BC-TE
First edition: August 2007



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About this document

This document summarizes the most recent product information about HP MPIO Full Featured DSM for MSA1000/1500 Disk Arrays (called the "HP MPIO MSA DSM" throughout this guide), including:

- Release notes information
- Intended audience
- Accessing future product updates
- Other documentation

Release notes information

These release notes contain the following topic:

- HP MPIO Full Featured DSM for MSA1000/1500 Disk Arrays support
- Revision details

Intended audience

This document is intended for customers who have purchased the HP MPIO MSA DSM software.

Accessing future product updates

HP recommends that customers sign up online using the Subscriber's choice web site at http://www.hp.com/go/e-updates.

- Subscribing to this service provides you with e-mail updates on product enhancements, newer versions of drivers, and firmware documentation updates, as well as instant access to other product resources.
- After signing up, you can quickly locate your products by selecting **Business support** and then **Storage** under Product Category.

Other documentation

The HP MPIO MSA DSM kit also includes:

- *HP MPIO Full Featured DSM for MSA Disk Arrays installation and reference guide*

Additional documentation, including whitepapers and best-practices documents, is available at: http://www.hp.com.

HP MPIO Full Featured DSM for MSA1000/1500 Disk Arrays support

This section contains information about:

- Operating system requirements
- Supported storage systems
- Prerequisite drivers
- Configuration limits
- Installation kit components

Operating system requirements

Following are the operating system requirements for HP MPIO MSA DSM:

- Windows 2000 Server and Advanced Server with Service Pack 4
- Windows Server 2003 with Service Pack 2 (x86, IA64 and x64)
- Windows Server 2003 R2 with Service Pack 2 (x86 and x64)

Supported storage systems

The HP MPIO MSA DSM supports the following disk array:

- MSA1000/15000 with firmware version 6.x or above

Prerequisite drivers

HP StorageWorks RAID storage systems are generally installed with a Solution Software kit, such as the Fibre Channel Installation kit. These kits install or update certain drivers necessary for using HP StorageWorks products with Windows. For information about Host Bus Adapter (HBA) drivers, refer to the HP web site: http://www.hp.com/country/us/eng/prodserv/storage.html.

Configuration limits

Table 1 lists the configuration limits for the HP MPIO MSA DSM.

Table 1 Configuration limits

Feature	HP MPIO Full Featured DSM for Windows for MSA Disk Arrays
Maximum number of HBAs per host	8
Maximum number of paths per disk for MSA	32
Failback	Autofailback
Dynamic load balancing	Yes
User Interface	Yes
Coexistence with Secure Path on same server	Yes
Coexistence with HP MPIO Full Featured DSM for XP family of Disk Arrays on same server	Yes
Coexistance with HP MPIO Full Featured DSM for EVA4000/6000/8000 family of Disk Arrays on same server	Yes
Coexistence with HP MPIO Full Featured DSM for EVA3000/5000 VCS 4.xxx Disk Arrays on same server	Yes
Coexistence with HP MPIO basic failover for EVA arrays on same server	Yes
Coexistence with HP MPIO basic failover for XP arrays on same server	No
Coexistence with HP MPIO basic failover for MSA arrays on same server	No

Installation kit components

Table 2 lists the components that are supplied in this release of HP MPIO MSA DSM:

Table 2 Installation kit components

File	Windows 2000/ Windows Server 2003	Windows Server 2003 (IA64)	Windows Server 2003 x64 Edition
hpmaadsm.sys	1.0.2.180	1.0.4.180	1.0.5.180
mpio.sys	1.18.3790.1920	1.18.3790.1920	1.18.3790.1920
mpdev.sys	1.18.3790.1920	1.18.3790.1920	1.18.3790.1920
mpspfltr.sys	1.18.3790.1920	1.18.3790.1920	1.18.3790.1920
hpperfprov.dll	1.0.2.6/1.0.3.6	1.0.4.6	1.0.5.6
hpdsm.exe	2.0.2.11	2.0.4.11	2.0.5.11

Revision details

Version 1.00.02

- Updated to MPIO framework v1.18
- Added support for handling the HBA removals (performed either via hot-plug functionality or through Windows Device Manager).
- Addressed an issue specific to 64-bit platforms where the use of SQST load balancing policy did not always use all available paths.