
DELL(TM) MD STORAGE ARRAY MANAGEMENT PACK SUITE 4.0 FOR MICROSOFT(R) SYSTEM CENTER OPERATIONS MANAGER 2007 and MICROSOFT(R) SYSTEM CENTER ESSENTIALS 2007 - README

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This readme provides information on the Dell MD Storage Array Management Pack Suite version 4.0, which can be imported into Microsoft(R) System Center Operations Manager (SCOM) 2007 SP1/R2 and System Center Essentials (SCE) 2007 SP1.

This readme contains updated information for the Dell MD Storage Array Management Pack Suite Version 4.0 for Microsoft System Center Operations Manager 2007 and System Center Essentials User's Guide, and any other technical documentation included with the Dell Management Pack for Operations Manager. All references to Operations Manager are also applicable to System Center Essentials.

NOTE: You cannot apply Dell MD Storage Array Management Pack Suite 4.0 as an upgrade over Dell Management Pack 3.x or any other previous versions of Dell Management Pack. Importing the Dell MD Storage Array Management Pack version 4.0 over the Dell Management Packs version 3.x is not supported.

The Dell MD Storage Array Management Pack Suite v4.0 enables SCOM to discover and monitor the status of Dell PowerVault(TM) MD3000/MD3000i and PowerVault MD1000 Storage Arrays that are daisy chained to MD3000/MD3000i storage arrays, on a defined network segment. This improved representation, which includes the receipt of failure and pre-failure alerts, allows you to assess, respond to, and ensure the availability of Dell MD storage arrays monitored in the SCOM environment. In addition to improved availability, the management pack enhances the ability to monitor and manage the hardware in a single management solution.

This readme contains the following sections:

- * Criticality
- * Minimum Requirements
- * Release Highlights
- * Installation/Un-Installation

- * Operating System Support
- * Known Issues
- * Additional Information

- Recommended

This section provides information about the minimum requirements for installing and using the Dell MD Storage Array Management Pack Suite version 4.0 for Microsoft System Center Operations Manager SP1/R2 and System Center Essentials SP1.

Requirements

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* Controller Firmware : The recommended PowerVault MD3000/MD3000i Controller Firmware(CFW) version is 07.35.31.60. The supported firmware versions are:
* 07.35.31.60
* 07.35.22.61
* 06.70.17.60
* Storage Array Host Software :

Install the Modular Disk Storage Manager (MDSM) Client on the server that hosts the PowerVault MD3000/MD3000i storage arrays to discover the Dell storage device through in-band. The recommended version is - 03.35.36.49

Supported Dell Devices

* Supported Storage Arrays:

- MD3000
- MD3000i
- MD1000 when daisy chained to a MD3000 or MD3000i.

* To discover DellTM PowerVaultTM MD3000/ MD3000i storage arrays, and daisy chained PowerVault MD1000 storage arrays the Array Bridge Broker (ABB) is a prerequisite on the management server.

* Extract the contents of the Dell_MDStorageArray_ABB.exe to the default location C:\Dell_MDStorageArray_ABB. The Dell_MDStorageArray_ABB.exe file is part of the Dell_MD_StorageArray_Management_Pack_Suite v4.0_A00.exe file.

* Ensure that the default IP listing file Dell_MDStorageArray_ip.cfg is present in the C:\Dell_MDStorageArray_ABB folder. The default IP listing file Dell_MDStorageArray_ip.cfg is available on the management station where you extracted the Array Bridge Broker (ABB) files and the Auto Discovery utility. You can create an IP listing file with a different name and also save the file in a different folder location.For more information, see the the "Dell(TM) MD Storage Array Management Pack Suite Version 4.0 For Microsoft(R) System Center Operations Manager 2007 and System Center Essentials 2007 User's Guide"

* For Systems Center Operations Manager (SCOM) to run the DellABB.exe file, ensure that there is a minimum disk space of 1 GB on the management station in an environment where you are managing a large number of devices.

* Base folder utility, which holds the root folder for Dell hardware and views for other management packs to group under.

* The MD Storage Array management pack discovers storage arrays that contain firmware version, which supports IPv6 addresses.

* The management pack MP provides Recovery Guru information as a point of reference to assist in troubleshooting the MD Storage Array for the respective events.

* The MD storage arrays management pack suite includes the Dell Discovery utility that discovers the PowerVault MD3000/MD3000i devices in your network and creates an IP listing file with the IP addresses of the storage arrays. SCOM uses this IP listing file to discover and manage the storage arrays. The Dell Discovery utility supports both IPv4 and IPv6 addresses.

* The MD Storage Array management pack discovers storage arrays with IPv6 addresses.

* The Diagram view of the MD storage arrays displays realistic icons for the various components modeled by the MD Storage Array management pack.

Installation

For information on installing the Dell(TM) MD Storage Array Management Pack Suite version 4.0 for Microsoft (R) SCOM 2007 SP1/R2 and SCE 2007 SP1, see the "Dell(TM) MD Storage Array Management Pack Suite Version 4.0 For Microsoft(R) System Center Operations Manager 2007 and System Center Essentials 2007 User's Guide".

Un-Installation

For information on uninstalling the Dell MD Storage Array Management Pack version 4.0, see the "Dell[™] MD Storage Array Management Pack Version 4.0 For Microsoft(R) System Center Operations Manager 2007 and System Center Essentials 2007 User's Guide".

List of Operating Systems supported on the Management Station:

- Windows Server 2003 SP2, Standard x86 Edition
- Windows Server 2003 SP2, Standard x64 Edition
- Windows Server 2003 SP2, Enterprise x86 Edition
- Windows Server 2003 SP2, Enterprise x64 Edition
- Windows Server 2003 SP2, Datacenter x86 Edition
- Windows Server 2003 SP2, Datacenter x64 Edition
- Windows Server 2003 R2 SP2, Standard x86 Edition
- Windows Server 2003 R2 SP2, Standard x64 Edition
- Windows Server 2003 R2 SP2, Enterprise x86 Edition
- Windows Server 2003 R2 SP2, Enterprise x64 Edition
- Windows Server 2003 R2 SP2, Datacenter x86 Edition
- Windows Server 2003 R2 SP2, Datacenter x64 Edition
- Windows Server 2008, Standard x86 Edition
- Windows Server 2008, Standard x64 Edition
- Windows Server 2008, Enterprise x86 Edition
- Windows Server 2008, Enterprise x64 Edition
- Windows Server 2008, Datacenter x86 Edition
- Windows Server 2008, Datacenter x64 Edition
- Windows Server 2008 SP2, Standard x86 Edition
- Windows Server 2008 SP2, Standard x64 Edition
- Windows Server 2008 SP2, Enterprise x86 Edition
- Windows Server 2008 SP2, Enterprise x64 Edition
- Windows Server 2008 SP2, Datacenter x86 Edition

- Windows Server 2008 SP2, Datacenter x64 Edition
- Windows Server 2008 R2, Standard x64 Edition
- Windows Server 2008 R2, Enterprise x64 Edition
- Windows Server 2008 R2, Datacenter x64 Edition

* After you remove the management pack, you need to close and re-launch the SCOM console for a complete cleanup of the cache. (DF310069)

* The description under the Management Pack Properties tab contains unknown characters as separators. (DF325583)

* The tooltip for objects in the Diagram view of the SCOM Web console does not display any information related to attributes. This is a limitation in the SCOM Web console.

* The Display Name attribute for Dell PowerVault MD3000/MD3000i Array is not displayed in the SCOM Operations console. This is a limitation in the SCOM Operations console.

* MD Storage Array alerts are not displayed in the Alerts view of the SCOM Web console. This is a limitation in the SCOM 2007 SP1 Web console. (DF344591)

* The SCOM 2007 SP1 Web console displays only 15 objects in its Diagram view.When there are more than 15 objects in a group,the SCOM 2007 SP1 Web console displays only 15 objects. This is a limitation in the SCOM 2007 SP1 Web console.(DF345485)

*The Alert Details pane of the Alert View in the SCOM Operations console, does not display the Knowledge Resolutions. This is a limitation in SCOM 2007 SP1. (DF344587)

*An Invalid character is displayed in the Alert description field of Alert Properties pane. This is a limitation in SCOM 2007 SP1. (DF350178)

* When you remove IP addresses from the MD Array IP configuration file, their corresponding alerts are retained in SCOM console views. You must manually close the alerts on the SCOM console.(DF357269)

* Occasionally MD Storage arrays that you manage from SCOM could disappear from the console when the MD Arrays stop responding. The SCOM console displays a new alert provided by the Management Pack. You must take the corrective actions suggested in the alert to ensure that the storage arrays that have disappeared from the console start responding in the subsequent discovery cycles, and are displayed on the SCOM console.

* Management Pack scripts may generate "Script or Executable failed to Run" - warning alerts. After you take corrective actions suggested in the alert knowledge base, you must manually close the alert on the SCOM console.

* The "dell_MDStorageArray_ip.cfg" file contains sample IP addresses separated by semi-colons. Before importing the management pack, the operator needs to replace them with the set of MD IP addresses manually or use the output file of Dell Discovery Utility.

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