

DELL(TM) MANAGEMENT PACK 2.1 FOR MICROSOFT(R) OPERATIONS MANAGER 2005 SP1 and MICROSOFT OPERATIONS MANAGER 2005 WORKGROUP EDITION SP1 README

NOTE: This readme provides information for Dell Management Pack for Microsoft Operations Manager (MOM) version 2.1. Dell OpenManage Connection for Microsoft Operations Manager is hereafter referred to as the Connection.

This file contains updated information for your "Dell Management Pack for Microsoft Operations Manager User's Guide" and any other technical documentation included with the Dell Management Pack for MOM.

You can access the documentation from the Dell Support website at "support.dell.com".

The Dell Management Pack for MOM enables the Microsoft Operations Manager to accurately depict the status of Dell systems on a defined network segment. This improved representation, which includes the receipt of failure and pre-failure alerts, allows Dell customers to assess, respond to, and ensure the availability of Dell systems monitored in the MOM environment. In addition to improved availability, the Management Pack enhances the ability to monitor and manage the hardware in a single management solution. In short, the Dell Management Pack integrates with MOM to aid the discovery and status management of Dell systems.

This file contains the following sections:

- * Criticality
- * Minimum Requirements
- * Release Highlights
- * Installation/Upgrade
- * User Notes
- * Known Issue
- * History

2 - Recommended

This section provides information about the minimum requirements for installing and using the Dell Management Pack for Microsoft Operations Manager.

Managed System Software Requirements

* Operating system support: Microsoft Windows(R) 2000 Server (SP4 or later), Windows 2000 Advanced Server (SP4 or later), Windows Server(TM) 2003 (Standard, Web, and Enterprise Edition), Windows Server 2003 SP1 (Standard, Web, and Enterprise Edition), Windows Server 2003 SP1 x64 (Standard, Web, and Enterprise Edition), Windows Server 2003 R2 (Standard and Enterprise Edition), Windows Server 2003 R2 x64 (Standard and Enterprise Edition), Windows Server 2003 R2 x64 (Standard and Enterprise Edition), Windows Server 2003 R2 x64 (Standard and Enterprise Edition), Windows Server

* Dell OpenManage(TM) Server Administrator version: 1.6–5.0

* Dell OpenManage Storage Management Service version 1.0–2.0

* Dell OpenManage Array Manager version: 3.4–3.7 NOTE: For receiving alerts from the storage subsystem, you must install either Array Manager or the enhanced Storage Management Service.

* Browser support for Server Administrator-managed systems: For information on browser support for Server Administrator-managed systems, see the Server Administrator "readme.txt" file.

NOTE: If the "Launch Server Administrator" Task gives you a "Page cannot be displayed" error, ensure that there is network connectivity from the Dell server.

NOTE: If any of the Remote power control or LED Identification control tasks give you errors, ensure that there is network connectivity from the BMC NIC of the Dell server and the BMC is configured with a valid IP Address and is IPMI-enabled. For IPMI Shell errors, refer "Dell OpenManage Baseboard Management Utilities User's Guide" from the Dell OpenManage "Systems Management Consoles CD" for details.

NOTE: If you have a Dell Remote Access Controller (DRAC) installed, you must install the DRAC agent using the "Dell OpenManage Systems Management" CD for Server Administrator versions 1.6 - 1.9 or the "Dell PowerEdge Installation and Server Management" CD for Server Administrator version 2.0 - 5.0. During installation, select "Managed Node"-> "DRAC Agent."

- NOTE: If the DRAC Console Launch gives you a "Page cannot be displayed" error, ensure that there is network connectivity from the DRAC card, and that the DRAC is configured with a valid IP address.
- NOTE: If tooltips are not populated for Dell Servers, ensure the CIM Dell namespace is not corrupted and Dell Services are not down. Restart the Dell managed node or Re-install Server Administrator to correct the CIM behavior.

MOM Management Console Requirements

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- * Microsoft Operations Manager (MOM) 2005 with Service Pack 1 must be installed and running.
- * MOM agent software must be installed on all Dell-managed systems either remotely from the management station or manually on the managed system.
- * For discovered systems to be recognized as Dell devices in the MOM environment, Server Administrator 1.6-5.0 must be installed on all Dell-managed systems.
- * The "MOM Management Server Action Account" must have local Admin privileges on all the agent-managed systems.
- * To run remote power control or LED Identification control tasks on Dell-managed systems, BMC Management Utility 2.0 must be installed on the Management Server. BMC Management Utility 2.0 is available on the Dell OpenManage 5.0 "System Management Consoles" CD.

NOTE: When Usernames, passwords or KGKeys for the BMC are changed, the BMC login details of the corresponding server should also be manually updated in the "Individual_BMC_Authentication_Credentials" section of the "%Management_Group_Name%_bmcServers.xml" file, which is present in the ipmish binary directory on the management server.

By default, individual BMC username, password, and KGKey will be used by the Remote power control and LED Identification control tasks. Global BMC Authentication Credentials are disabled when either BMC_UserName or BMC_Password or BMC_KGKey of the Global Credential section is set to -1 in the XML file.

For enabling the use of Global BMC Authentication Credentials (that is, one global BMC_UserName, BMC_Password, and BMC_KGKey for BMCs of all Dell systems), replace the -1 value with the exact login credentials for the BMC_UserName, BMC_Password, and BMC_KGKey in the Global BMC Authentication Credentials Section. BMC_KGKey entered in the XML file should be a valid hexadecimal.

- NOTE: The component name in Dell Services in the Dell State View reflects the corresponding Dell OpenManage Service name for releases prior to Dell OpenManage version 5.0:
 - * DSM SA Shared Services Dell OpenManage Common Services
 - * DSM SA Connection Service Secure Port Server
 - * DSM SA Data Manager Systems Management Data Manager
 - * DSM SA Event Manager Systems Management Event Manager
- NOTE: Remote Power control tasks, LED Identification control tasks and Clear Agent ESM Log will function only for Dell systems on which a Dell Agent is installed.
- NOTE: Remote Power control tasks and LED identification control tasks will provide IPMI Shell Task output only on Dell systems with IPMI capability and with Server Administrator installed.

- * Support for Dell OpenManage Server Administrator version 5.0.
- * Support for enhanced Storage Management Service version 2.0.
- * Support for Dell OpenManage Array Manager version 3.7.
- * Remote power control (Power On, Power Off (graceful and enforced), Power Reset, Power Cycle, and Power Status) and LED Identification On/Off tasks for Dell systems with BMC Hardware and Server Administrator installed.
- * Support for new events in Storage Management and battery events in Server Administrator.
- * State View with Dell OpenManage Services along with Dell hardware agents' status.
- * Additional classification for Dell systems without Server Administrator and a Warning alert for Dell systems where Server Administrator is required to be installed.
- * Additional tooltips for Dell Computers Server Administrator version, BMC IP Address, IPMI Version, BIOS Version, and RAC Web address.
- * Task to Clear Agent ESM Log.
- * Task to update State Views Dell Services and Dell Hardware agents' status.

* Update of Dell Knowledge Base information to support new event processing rules of Server Administrator (including the Storage Management) and Array Manager.

Installation

This section describes the installation of Dell Management Pack for:

- MOM 2005 / MOM 2005 SP1 (Full Edition / WorkGroup Edition)

The Dell Management Pack installation package consists of a single Management Pack module (the "DOMMP21.AKM" file). To install the Management Pack, import this file by using the MOM "Import Management Pack" wizard.

- NOTE: The following steps require that you install the Management Pack on a system that has MOM installed and running.
- 1. Download the Dell Management Pack, "DOMMP21.exe," from the Dell Support website at "support.dell.com." This file is a self-extracting ".exe" file.
- 2. Copy the downloaded file to the destination directory on your local system's hard drive.
- 3. Open the ".exe" file to extract "DOMMP21.AKM."
- 4. Open the MOM Administrator Console from the "Start"-> "Programs"-> "Microsoft Operations Manager 2005" menu.
- 5. Select "Microsoft Operation Manager" in the left pane view.
- 6. Select "Import Management Pack" in the right pane view. The "Import Management Pack" window appears.
- 7. Click "Next" on the "Welcome to the Management Pack Import/Export Wizard" screen.
- 8. Select the "Import Management Packs and/or Reports" option and click "Next."
- 9. Enter or browse for the location of the Management Pack, which is usually the same location to which you downloaded and extracted the contents of the "DOMMP21.exe" file, and then click "Next."

- 10. Select "DOMMP21.akm" from the list displayed on the "Select Management Packs" screen.
- 11. Click the installation options from the following available Options, and click "Next." If you are installing the Management Pack for the first time, you may select any of these options:
 - "Update Existing Management Pack. Custom rules, enabled/disabled settings, company knowledge are retained" – This option specifies that you want to update your existing Management Pack processing rules, if any, with the processing rules from the new Management Pack.
 - "Replace Existing Management Pack" This option specifies that you want to replace your existing Management Pack processing rules, if any, with the processing rules from the new Management Pack.
 - "Backup Existing Management Pack" This option specifies that you want to make a backup copy of your existing Management Pack processing rules, if any. You may use this option with either the "Update" or "Replace" option.
- 12. Click "Next" in the "Select Management Pack" window. A summary of selected options is displayed.
- 13. Click "Finish" on the "Completing the Management Pack Import/Export Wizard" screen.

Upgrade to Management Pack Version 2.1

NOTE: You can upgrade to Dell Management Pack 2.1 only if your Dell Management Pack is running on MOM 2005 or MOM 2005 SP1.

To upgrade to Dell Management Pack 2.1, download the Dell Management Pack, "DOMMP21.exe", from the Dell support website at "support.dell.com". See steps 1 to 8 of "Installing the Management Pack" for the procedure to import the Management Pack.

Perform the following steps to upgrade the Management Pack:

- 1. Enter or browse for the location of the Management Pack, which is usually the same location to which you downloaded and extracted the contents of the "DOMMP21.exe" file.
- 2. Select the "Update Existing Management Pack. Custom rules, enabled/disabled settings, company knowledge will be retained" option with the "Backup" option checked.

This option retains:

* User-added company knowledge base information on Dell-specific rules

* All user-added custom rules to the Management Pack

However, the user-modified rules, scripts, data providers, and computer groups on Dell rules will be overwritten. To replace the existing Management Pack without retaining any user modifications, select the "Replace" option with the "Backup" option checked.

- 3. Click "Next" in the "Select Management Pack" window. A summary of all of the options chosen appears.
- 4. Click "Finish" to import the Dell Management Pack into the MOM console.

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Uninstallation	

Uninstalling the Management Pack involves the following tasks:

- a. Delete Dell Processing Rule groups
- b. Delete Dell Computer groups
- c. Delete Dell Attributes
- d. Delete Dell Tasks
- e. Delete Dell Scripts
- f. Delete Dell Providers
- g. Delete Dell Public Views
- h. Delete the bmcServers.xml file

- 1. In the Microsoft Operations Manager Administrator Console, expand "Microsoft Operations Manager"-> "Management Packs"-> "Rule Groups."
- 2. Select the "Dell OpenManage" rule group.
- 3. Right-click the "Dell OpenManage" rule group and select "Delete" from the pop-up menu.
- 4. Select the "Delete the rule group and all child rule groups" option in the "Delete Rule Group" dialog box and click "OK."

NOTE: Disable the Dell OpenManage processing rule groups and resolve all alerts generated by the Dell processing rule group. Next, ensure that these resolved alerts are groomed from the MOM database before deleting the Dell OpenManage processing rule groups. Otherwise, the MOM console will not allow deletion of the Dell processing rule group. For information on MOM database grooming, see the MOM product documentation or online help.

- 1. In the Microsoft Operations Manager Administrator Console, expand "Microsoft Operations Manager"-> "Management Packs"-> "Computer Groups."
- 2. Select the "Dell Computers" computer group.
- 3. Right-click the "Dell Computers" computer group and select "Delete Computer Group" from the pop-up menu.
- 4. Select the "also delete contained subgroups, always." option in the "Delete Computer Group" dialog box and click "OK."
- 5. Click "Yes" to confirm deletion.
- 6. Select the "Dell Computers Server Administrator Required" computer group.
- 7. Right-click the "Dell Computers Server Administrator Required" computer group and select "Delete Computer Group" from the pop-up menu.
- 8. Select the "also delete contained subgroups, always." option in the "Delete Computer Group" dialog box and click "OK."
- 9. Click "Yes" to confirm deletion.

- 1. In the Microsoft Operations Manager Administrator Console, expand "Microsoft Operations Manager"-> "Management Packs."
- 2. Select "Computer Attributes."
- 3. Select the "DellOMSAAttrib" computer attribute in the right pane view.
- 4. Right-click the "DellOMSAAttrib" computer attribute and select "Delete" from the pop-up menu.
- 5. Click "Yes" to confirm deletion.

d. Deleting Dell Tasks

- 1. Close the Microsoft Operations Manager Operators Console.
- 2. In the Microsoft Operations Manager Administrator Console, select "Tasks" from the bottom left pane tab view.
- 3. Expand the "Tasks" folder from the left pane tree view and select the "Dell OpenManage" folder.
- 4. Right-click the "Dell OpenManage" folder and select "Delete" from the pop-up menu.
- 5. Click "Yes" to confirm deletion.

- 1. In the Microsoft Operations Manager Administrator Console, expand "Microsoft Operations Manager"-> "Management Packs."
- 2. Select "Scripts."
- 3. Select the "DellOMSALaunch" script in the right pane view.
- 4. Right-click "DellOMSALaunch" and select "Delete" from the pop-up menu.
- 5. Click "Yes" to confirm deletion.
- 6. Select the "Dell Agents Service Discovery" script in the right pane view.
- 7. Right-click "Dell Agents Service Discovery" and select "Delete" from the pop-up menu.
- 8. Click "Yes" to confirm deletion.
- 9. Select the "Dell Agents State Monitoring" script in the right pane view.
- 10. Right-click "Dell Agents State Monitoring" and select "Delete" from the pop-up menu.
- 11. Click "Yes" to confirm deletion.
- 12. Select the "Dell RAC Console Launch script" in the right pane view.
- 13. Right-click "Dell RAC Console Launch" and select "Delete" from the pop-up menu.
- 14. Click "Yes" to confirm deletion.

- 15. Select the "Dell Classification of Servers without OMSA script" in the right pane view.
- 16. Right-click "Dell Classification of Servers without OMSA script" and select "Delete" from the pop-up menu.
- 17. Click "Yes" to confirm deletion.
- 18. Select the "Dell Clear Agent ESM Log script" in the right pane view.
- 19. Right-click "Dell Clear Agent ESM Log script" and select "Delete" from the pop-up menu.
- 20. Click "Yes" to confirm deletion.
- 21. Select the "Dell Server BMC Discovery script" in the right pane view.
- 22. Right-click "Dell Server BMC Discovery script" and select "Delete" from the pop-up menu.
- 23. Click "Yes" to confirm deletion.
- 24. Select the "Dell IPMISH Tasks script" in the right pane view.
- 25. Right-click "Dell IPMISH Tasks script" and select "Delete" from the pop-up menu.
- 26. Click "Yes" to confirm deletion.

- 1. In the Microsoft Operations Manager Administrator Console, expand "Microsoft Operations Manager"-> "Management Packs."
- 2. Select "Providers."
- 3. Select the "Schedule every 30 minutes" provider in the right pane view.
- 4. Right-click "Schedule every 30 minutes" and select "Delete" from the pop-up menu.
- 5. Click "Yes" to confirm deletion.
- 6. Select the "Schedule every 60 minutes" provider in the right pane view.
- 7. Right-click "Schedule every 60 minutes" and select "Delete" from the pop-up menu.

8. Click "Yes" to confirm deletion.

- 1. In the Microsoft Operations Manager Operators Console, select "Public Views" from the bottom left pane tab view.
- 2. Expand the "All Public Views" folder from the top left pane tree view and select the "Dell OpenManage" folder.
- 3. Right-click the "Dell OpenManage" folder and select "Delete" from the pop-up menu.
- 4. Click "Yes" to confirm deletion.

1. Browse to the directory where BMC Management Utility was installed and delete the %Management_Group_Name%_bmcServers.xml file(s).

This section provides information to help enhance your experience with the Management Pack in particular implementations and environments.

- When importing the Management Pack, be careful when the "Replace" option is selected, as this will replace all the user-added company knowledge base information, and the user-added custom rules.
- Ensure that the MOM Agent is installed on all the managed systems.

This section provides information on open issues with the Dell Management Pack 2.1 for MOM 2005 and MOM 2005 SP1 (Full Edition or Workgroup Edition)

- When the managed system name is a double-byte character string, for example, Chinese or Japanese, Microsoft Operations Manager Workgroup Edition does not install the MOM Agent on the system or manage the system.

This section provides historical information about the new features and fixes that were implemented in the previous version of the Management Pack.

RELEASE HIGHLIGHTS FOR VERSION 2.0 OF DELL MANAGEMENT PACK FOR MICROSOFT OPERATIONS MANAGER

The Dell Management Pack 2.0 supported Microsoft Operations Manager 2005.

Features

- * Added Dell State View to display health status for Dell Hardware agents.
- * Added Topology views, Alert views and a Task to update Dell State View.
- * Added Tooltip information Dell Asset Tag, Dell Service Tag, Operating System name, IP Addresses, Dell Server Model Type.
- * Added new event processing rules for new Dell OpenManage Server Administrator versions 2.1 events under Dell OpenManage -> Server Administrator subprocessing rule group.
- * Added RAC Launch Address to server warning or critical alert description.

Knowledge Base

* Added Dell Knowledge Base information to the new event processing rules of Server Administrator (including the enhanced Storage Management Service) and Array Manager.

RELEASE HIGHLIGHTS FOR VERSION 1.2 OF DELL MANAGEMENT PACK FOR MICROSOFT OPERATIONS MANAGER

The Dell Management Pack 1.2 supported Microsoft Operations Manager 2005.

The Dell Management Pack 1.2 also made changes to the Dell processing rule groups and added Knowledge Base information for the new event processing rules.

Processing Rule Group

- * Added new event processing rules for new Dell OpenManage Server Administrator versions 1.9 events under Dell OpenManage-> Server Administrator subprocessing rule group
- * Added new event processing rules for new enhanced Storage Management Service version 1.0 events under Dell OpenManage-> Storage Management subprocessing rule group
- * Added new event processing rules for new Dell OpenManage Array Manager 3.6 events under Dell OpenManage-> Array Manager subprocessing rule group
- * Generated new alerts for new Server Administrator (including the

enhanced Storage Management Service) and Array Manager events, whose severity is either Critical or Warning

Knowledge Base

* Added Dell Knowledge Base information to the new event processing rules of Server Administrator (including the enhanced Storage Management Service) and Array Manager.

RELEASE HIGHLIGHTS FOR VERSION 1.1 OF DELL MANAGEMENT PACK FOR MICROSOFT OPERATIONS MANAGER

The Dell Management Pack 1.1 made changes to the Dell processing rule groups and added Knowledge Base information for the new event processing rules.

Processing Rule Group

- * Added new event processing rules for the new events of Server Administrator versions 1.7 and 1.8 under the "Dell OpenManage -> Server Administrator" subprocessing rule group.
- * Added new event processing rules for the new events of Array Manager 3.5 under "Dell OpenManage"-> "Array Manager" subprocessing rule group.
- * Generated alerts for the new events of Server Administrator and Array Manager whose severity is either Critical or Warning.

Knowledge Base

* Added Dell Knowledge Base information to the new event processing rules of Server Administrator and Array Manager.

RELEASE HIGHLIGHTS FOR VERSION 1.0 OF DELL MANAGEMENT PACK FOR MICROSOFT OPERATIONS MANAGER

- * Performed grouping of Dell servers
- * Generated alerts for all the Critical and Warning events from Server Administrator and Array Manager
- * Reflected the status of the server on the MOM Console
- * Launched Server Administrator web console to help in better management of Dell servers
- * Knowledge Base Information on all events

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