Dell Server Management Pack Suite Version 6.2 for Microsoft System Center Operations Manager Installation Guide



Notes, cautions, and warnings



NOTE: A NOTE indicates important information that helps you make better use of your computer.



CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Overview

This guide provides information to install, configure, and use Dell Server Management Pack Suite version 6.2 for Microsoft System Center Operations Manager.

The integration of Dell Server Management Pack Suite version 6.2 with Microsoft System Center 2012 R2 Operations Manager, Microsoft System Center 2012 SP1 Operations Manager, Microsoft System Center 2012 Operations Manager, or Microsoft System Center Operations Manager 2007 R2 environment allows you to manage, monitor, and ensure the availability of your Dell devices.



CAUTION: To avoid data corruption, data loss, or both; perform the procedures in this document only if you have proper knowledge and experience in using Microsoft Windows operating system and Microsoft System Center 2012 R2 Operations Manager, Microsoft System Center 2012 SP1 Operations Manager, Microsoft System Center 2012 Operations Manager, and Microsoft System Center Operations Manager 2007 R2.

The Management Pack Suite Installer, Installation Guide, and Release Notes files are packaged in a self-extracting executable **Dell_Server_Management_Pack_Suite_v6.2_Axx.exe** (where xx is the Dell Server Management Pack Suite version 6.2 release number) file. You can download the executable from **dell.com/support**.

Read the Management Pack's release notes, which contain the latest information about software and management server requirements, in addition to information about known issues. The release notes is also posted to the Systems Management documentation page at **dell.com/**OMConnectionsEnterpriseSystemsManagement.

Terms used in this document

Table 1. Terms used in this document

Term	Refers to
OpsMgr	Microsoft System Center 2012 R2 Operations Manager, Microsoft System Center 2012 SP1 Operations Manager, Microsoft System Center 2012 Operations Manager, and Microsoft System Center Operations Manager 2007 R2, unless otherwise specified.
OpsMgr 2012	Microsoft System Center 2012 R2 Operations Manager, Microsoft System Center 2012 SP1 Operations Manager, and Microsoft System Center 2012 Operations Manager, unless otherwise specified.
Dell Remote Access Controller (DRAC)	iDRAC of Dell servers, Dell branded OEM servers, and Dell OEM Ready servers, unless otherwise specified.
Chassis	Chassis Management Controller (CMC), unless otherwise specified.

Term	Refers to
Dell Servers	Dell PowerEdge servers, Dell PowerVault monolithic and modular servers, supported Rack Workstations, Dell branded OEM servers, and Dell OEM Ready servers, unless otherwise specified.
Agent-based monitoring	Servers and Rack Workstation Agent-based Monitoring, unless otherwise specified.
Agent-free monitoring	Servers and Rack Workstations Agent-free Monitoring, unless otherwise specified.

Monitoring Features supported by Dell Server Management Pack Suite

Table 2. Dell Server Management Pack Suite Features

Feature	Description
Servers and Rack Workstations Agent-based Monitoring	Agent-based monitoring and inventory of Dell PowerEdge, Dell PowerVault storage servers, Dell OEM Ready servers, and supported Dell Precision Racks.
Servers and Rack Workstations Agent-free Monitoring	Agent-free monitoring and inventory of Dell PowerEdge, Dell PowerVault storage servers, supported Dell Precision Racks, Dell branded OEM servers, and Dell OEM Ready servers.
DRAC Monitoring	Monitoring and inventory of Dell iDRAC devices.
Chassis Monitoring	Monitoring and inventory of Dell CMC devices, and OEM Ready chassis.
Chassis Modular Server Correlation	Correlation of Dell servers within a chassis, and OEM Ready chassis discovered either using Agent-based or Agent-free monitoring features.

Supported OpsMgr versions for Monitoring Features

Table 3. Supported OpsMgr versions for Monitoring Features

Monitoring Features	OpsMgr	
	2012 R2/ 2012 SP1/ 2012	2007 R2
Servers and Rack Workstations Agent-based Monitoring		
Servers and Rack Workstations Agent-free Monitoring		3
DRAC		
Chassis	•	•

Monitoring Features	OpsMgr	
	2012 R2/ 2012 SP1/ 2012	2007 R2
Scalable		>
Detailed		8
Chassis Modular Server Correlation		
Chassis Modular Server Correlation		V
Chassis Shared Storage Component Correlation with Dell Modular Servers		8

Supported Dell Hardware devices for OpsMgr versions

Table 4. Supported Dell Hardware devices for OpsMgr versions

Dell Hardware Device	OpsMgr 2012 R2/ 2012 SP1/ 2012	OpsMgr 2007 R2
Dell PowerEdge M1000e		
Dell PowerEdge VRTX		Supported only for: Chassis Monitoring Feature Scalable Chassis Modular Server Correlation Monitoring Feature
Dell PowerEdge FX2		8

Installing the Dell Server Management Pack Suite

The topics in this section describe how to install, upgrade, and uninstall the Dell Server Management Pack Suite.

Prerequisites

To install the Dell Server Management Pack Suite on a management server, make sure that you have the following installed:

- Install one of the following versions of OpsMgr:
 - 2012 R2
 - 2012 SP1 On systems running OpsMgr 2012 SP1, download and apply the Update Rollup 2 for OpsMgr 2012 SP1 provided in the Microsoft knowledge base article KB2826664. For more information, see support.microsoft.com/kb/2802159
 - 2012
 - 2007 R2
- Microsoft .NET version 3.5 SP1
- Local administration privileges on the management server where Dell Server Management Pack Suite is installed
- Enable the following Windows firewall rules:
 - Operations Manager SNMP Response
 - Operations Manager SNMP Trap Listener
 - Operations Manager Ping Response

Installing Dell Server Management Pack Suite using the Installer

- Download the Dell_Server_Management_Pack_Suite_v6.2_Axx.exe (where xx is the Dell Server Management Pack release number) from dell.com/support.
- 2. To extract the contents of the self-extractable zip file, run the .exe file and specify a path.
- **3.** Launch the **Dell_Server_Management_Pack_Suite.exe** file from the extracted location. The Dell Server Management Pack Suite welcome screen is displayed.
- 4. Click Next.
 - The license agreement is displayed.
- 5. To continue the installation, accept the license terms after reading them, and click Next.
- 6. Click Change (if necessary) to change the default installation folder and click Next.

- 7. Click Install.
- 8. Click Finish on the Install Shield Wizard Completed screen.

The management packs are extracted to the location; C:\Program Files\Dell Management Packs \Server Mgmt Suite\6.2.

The following are automatically imported after the installation of Dell Server Management Pack Suite:

- · Agent-based monitoring feature.
- Agent-free monitoring feature, if prerequisites are complete.
- Dell Feature Management Pack. The <u>Feature Management Dashboard</u> is displayed under Monitoring → Dell on the OpsMgr console. See the individual monitoring sections for importing the monitoring features.
- NOTE: The Agent-free monitoring feature requires the installer to run on all the management servers that are used to monitor the Dell servers. The installer registers the Dell Device Helper Utility (COM+ application) on the management server. The default location is C:\Program Files\Dell Management Packs\Server Mgmt Suite\6.2\Library.
- **NOTE:** The installer also extracts the management packs. To extract the management packs, run the installer on a system with Windows client operating system.

A log file containing the installation information is generated after the installation of Dell Server Management Pack Suite. The log file is available at the location where Dell_Server_Management_Pack_Suite.exe is extracted.

Installing Dell Server Management Pack Suite on multiple Management Servers

To install Dell Server Management Pack Suite on multiple management servers:

- 1. Run the **Dell_Server_Management_Pack_Suite.exe** on all the required management servers that are part of the resource pools used for the following monitoring features:
 - a. Agent-Free Monitoring
 - b. Chassis Detailed Monitoring
 - c. Slot discovery in Chassis Scalable Monitoring
 - **NOTE:** Make sure that you have Dell Device Helper utility installed, as workflows of Agent-Free and Chassis Detailed monitoring features requires Dell Device Helper utility.
- 2. Import the Dell Server Management Packs using the **Feature Management Dashboard** or import the Management Packs using the OpsMgr Import Management Pack wizard on any of the management servers. OpsMgr automatically distributes the management packs to all the management servers.
- **3.** To receive traps, add the management server used for discovering the Dell Device to the Dell device's trap destination list.
 - **NOTE:** Trap destination is automatically configured for Dell devices discovered and monitored through Agent-free monitoring feature.

Upgrading Dell Server Management Pack Suite from previous versions

You can upgrade to Dell Server Management Pack Suite version 6.2 using the installer.

Upgrading from Dell Server Management Pack Suite version 6.1.1

The installer detects the installed features from Dell Server Management Pack Suite version 6.1.1, and automatically upgrades the Feature Management Pack to version 6.2.



NOTE: The installer may display a message prompting a restart after the upgrade is completed, ignore this message as restart is not required.

Upgrading from version 6.1 and prior versions

Upgrade from Dell Server Management Pack Suite version 6.1 or earlier versions to version 6.2 are not supported.

Upgrading from previous Operations Manager

You can upgrade to OpsMgr from previous versions as per Microsoft guidelines. Refer to Microsoft System Center documentation for the supported upgrade scenarios.

Upgrading from OpsMgr 2012 SP1 to OpsMgr 2012 R2

Upgrading to OpsMgr 2012 R2 does not affect the existing Dell Server Management Pack Suite features and functionalities. For information about upgrading from OpsMgr 2012 SP1 to OpsMgr 2012 R2, see **technet.microsoft.com/en-us/library/dn249707.aspx**.

Upgrading from OpsMgr 2012 to OpsMgr 2012 SP1

Upgrading to OpsMgr 2012 SP1 does not affect the existing Dell Server Management Pack Suite features and functionalities. For information about upgrading from OpsMgr 2012 to OpsMgr 2012 SP1, see technet.microsoft.com/en-us/library/jj899854.aspx.

Upgrading from OpsMgr 2007 R2 to OpsMgr 2012

For details on how to upgrade from OpsMgr 2007 R2 to OpsMgr 2012, see **technet.microsoft.com/en-us/library/hh476934.aspx**.



NOTE: To make sure that the feature management workflows are functioning at an optimal level, restart the root management server after upgrading to OpsMgr 2012.

Using the Repair option in the Installer

The **Repair** option, allows you to repair any installation errors that may have occurred while installing the Dell Server Management Pack Suite.

- $\textbf{1.} \quad \text{Run the } \textbf{Dell_Server_Management_Pack_Suite.exe} \text{ file from the extracted location}.$
 - The welcome screen for Dell Server Management Pack Suite is displayed.
- 2. Click Next.
 - The **Program Maintenance** screen is displayed.
- 3. Select Repair and click Next.
 - The **Ready to Repair the Program** screen is displayed.
- 4. Click Install.

A progress screen displays the progress of the installation. Once the installation is completed, the Installation Completed Successfully screen is displayed.

5. Click Finish.



NOTE: The Repair option is not available through Add/Remove Programs from the Control Panel.

Uninstalling the Dell Server Management Pack Suite

You can uninstall the Dell Server Management Pack Suite from the Windows Control Panel or using the **Remove** option in the Dell Server Management Pack Suite installer.

Removing Dell Server Management Pack Suite using the Installer

To remove Dell Server Management Pack Suite using the installer:

- 1. Run the Dell_Server_Management_Pack_Suite.exe file from the extracted location. The welcome screen for Dell Server Management Suite Pack is displayed.
- 2. Click Next.
- 3. Select Remove and click Next.

The Remove the Program screen is displayed

4. Click Remove.

The Dell Server Management Pack Suite is removed.



NOTE:

- While uninstalling, the following message is displayed: The following applications should be closed before continuing the installation: COM Surrogate as the COM surrogate process is running the DellDeviceHelper.DLL in the background which should be closed. Select the Automatically close applications and attempt to restart them after the setup is complete option. Click **OK** to proceed with the uninstallation.
- Uninstallation of Dell Server Management Pack suite does not remove the Dell Management Packs imported in the OpsMgr. To remove the Dell Management Packs from the OpsMgr, see technet.microsoft.com/en-us/library/cc974489.aspx

Uninstalling the Dell Server Management Pack Suite using Windows Control **Panel**

To uninstall the Dell Server Management Pack Suite using Windows Control Panel:

- 1. Click Start → Control Panel → Uninstall a program.
- 2. Right-click Dell Server Management Pack Suite and click Uninstall.
- **3.** To complete the uninstallation process, follow the instructions on the screen.

Configuring OpsMgr 2012 to monitor Traps and Trap-**Based Unit Monitors**

To monitor traps, and trap-based unit monitors in OpsMgr 2012:

- 1. Launch OpsMgr 2012, and click Administration.
- 2. In the Administration pane, browse to Run As Configuration→ Profiles.

- **3.** From the list of available profiles, right-click **SNMP Monitoring Account** and click **Properties**. The **Introduction** screen is displayed.
- 4. Click Next.

The Specify the Run As profile's general properties screen is displayed.

5. Click Next.

The Run As Accounts screen is displayed.

6. Click Add

The Add a Run As Account screen is displayed.

- 7. Select the community string from the **Run As account** drop-down list to discover the devices.
 - **NOTE:** Create a Community String **Run As Account** if none is present. For more information, see <u>Creating Run As Account for SNMP monitoring</u>.
 - **NOTE:** If you are using multiple Run As Accounts to discover devices, associate each device with its associated Run As Account. For more information, see Associating multiple Run As Accounts.
- 8. Click OK.
- 9. After the wizard is complete, click Close.

Creating Run As Account for SNMP monitoring

- 1. Launch OpsMgr 2012, and click Administration.
- 2. In the Administration pane, browse to Run As Configuration → Accounts.
- 3. Right-click Accounts and click Create Run As Account.

The **Introduction** screen is displayed.



4. Click Next.

The General Properties screen is displayed.

- 5. Select Community String from the Run As Account type: drop-down list.
- 6. Type the community string name in the Display name: text box and click Next.
- **7.** Provide the account credentials in the **Community string** text box and click **Next**. The **Distribution Security** screen is displayed.
- 8. Select the Less secure I want the credentials to be distributed automatically to all managed computers option, and click Create.
- 9. After the wizard is complete, click Close.

Associating Multiple Run As Accounts

- 1. Follow step 1 to step 6 under <u>Configuring OpsMgr 2012 to monitor Traps and Trap-Based Unit Monitors.</u>
- 2. On the Add a Run As Account screen, select the A selected class, group, or object option.
- 3. Click Select \rightarrow Class.

The Class Search screen is displayed.



NOTE: You can also associate the community string **Run As Account** with Object and Group. For more information, see the Microsoft documentation for OpsMgr 2012 at **technet.microsoft.com**.

- **4.** In the **Filter by (optional)** text box enter the class name. Depending on the type of device, type **Dell Server**, **Dell CMC**, **Dell DRAC/MC**, or **Dell RAC** classes.
- 5. Click Search.
- **6.** Under **Available items**, select the class you want to add.
- 7. Click OK.
- 8. On the Add Run As account screen, click OK.
- **9.** Repeat step 2 to step 8 for each type of class you want to manage.
- 10. Click Save.
- **11.** After the wizard is complete, click **Close**.

Installing Monitoring Features

The topics in this section describe how to install, upgrade, and remove the monitoring features using the **Dell Feature Monitoring Dashboard**.

You can import monitoring features into OpsMgr either by importing the Monitoring Feature management packs using OpsMgr Import Management Packs wizard or using the Dell Feature Management Dashboard. You can use Feature Management Dashboard for advanced fine-tuning of monitoring features. For more information, see Feature Management Tasks under the respective monitoring features.

Importing Dell Server Management Packs into OpsMgr

To import the Dell Server management packs, use the OpsMgr Import Management Pack wizard.

- 1. Launch the OpsMgr console.
- 2. From the navigation pane, click Administration.
- 3. Expand Administration, right-click Management Packs, and select Import Management Packs.
- **4.** On the **Select Management Packs** screen, click **Add** → **Add from disk**.
- 5. Type the location details or navigate to the location where you have installed the **Dell Server**Management Pack Suite.
 - If you had chosen to install in the default directory, then the Dell Server Management Packs are available under C:\Program Files\Dell Management Packs\6.2.
- Select the management pack you want to import and click Open.
 The Import Management Packs screen appears with the Management Packs displayed in the Import List.
- 7. Click Install.

Feature Management Dashboard

The **Feature Management Dashboard** provides facilities for the configuration of Dell Server Management Pack Suite monitoring features to monitor the various Dell systems — Dell servers, Dell Sleds, Dell Precision Racks, Dell Remote Access Controllers (DRAC), Dell PowerEdge FX2, Dell PowerEdge VRTX, Dell PowerEdge M1000e, integrated DRAC (iDRAC), and Dell OEM servers.

- Agent-based Monitoring Feature
- Agent-free Monitoring Feature
- DRAC Monitoring Feature
- Chassis Monitoring Feature
- Chassis Modular Server Correlation Feature

You can import, upgrade, and remove the monitoring features using the **Dell Feature Management Dashboard**.

Importing Monitoring Features using Feature Management Dashboard

Feature Management Dashboard allows you to view the available Dell Server Management Pack Suite monitoring features and configure them automatically for importing, upgrading, and removing the management packs required by a particular feature.

In a distributed setup (including distributed resource pool in OpsMgr 2012), the management server where the Dell Server Management Pack Suite is installed first is selected to host all feature management activities.

To import the monitoring features:

- 1. Launch the OpsMgr console.
- 2. From the Navigation pane, click Monitoring.
- 3. Expand Monitoring → Dell → Feature Management Dashboard.

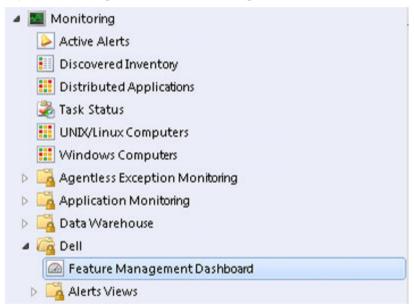


Figure 1. Monitoring pane

On the **Feature Management Dashboard** pane you can view the list of monitoring features installed, the version currently in use, the version you can upgrade to, the level of monitoring, total node count, and required licenses.



Figure 2. Feature Management Dashboard

- 4. Select the monitoring feature you want to install.
- 5. Under the Tasks pane, expand Dell Monitoring Feature Tasks.



Figure 3. Dell Monitoring Feature Tasks

- **6.** Click a task to import/ upgrade a feature.
- 7. On the Run Task screen, make sure that the Use the predefined Run As Account option is selected.
- 8. Click Run.
- **9.** After the task has successfully completed, click **Close**.

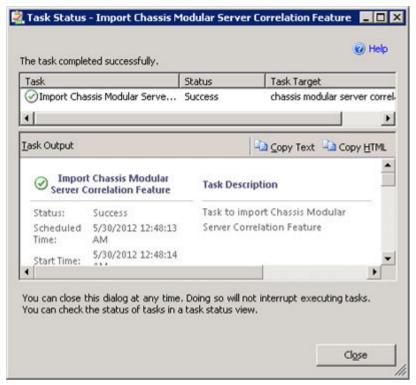


Figure 4. Task Status

- **10.** Repeat step 4 to step 9 for each monitoring feature you want to enable.
 - NOTE: Wait for a task to complete before launching another task using the **Feature**Management Dashboard.

Upgrading Monitoring Features using the Feature Management Dashboard

- 1. Launch the OpsMgr console.
- 2. From the navigation pane, click Monitoring.
- 3. Click Dell → Feature Management Dashboard.
- **4.** Select the monitoring feature you want to upgrade.
- 5. Under the Tasks pane, expand Dell Monitoring Feature Tasks.
- **6.** Click the upgrade task you want to perform.
- 7. On the Run Task upgrade screen, select Use the predefined Run As Account option.
- 8. Click Run.
 - CAUTION: If there are any dependencies or associations that has to be overridden, which results in data loss, the task fails with the appropriate message. To proceed with the task, click Override and set the AutoResolve Warnings/Errors override to True. For more information, see Feature Management Dashboard Task Fails.
- 9. After the task is complete, click Close.
 - While upgrading, any overrides (customizations to discovery, monitors, and rules) from previous versions of Dell Server Management Pack Suite are carried over to Dell Server Management Pack Suite version 6.2.

Table 5. Customizing Monitoring Features using Feature Management Dashboard (Scalable vs Detailed)

Features	Scalable	Detailed
Servers and Rack Workstations Agent-based Monitoring	Inventory and health monitoring at server and component group level.	Detailed inventory and monitoring of the following components: memory, processors, sensors, network interfaces, storage controllers, disks, and volumes. Also, display the BIOS information.
Servers and Rack Workstations Agent-free Monitoring	 Inventory up to individual components. Health monitoring only at server and component group level. 	Inventory and health monitoring of individual components. View metrics for power, temperature, network interface cards processor, memory, CUPS (Computer Usage per Second), PCIeSSD wear level and IO performance metrics.
Chassis Monitoring	Chassis inventory.Chassis slots summary.Health monitoring of chassis.	Inventory and health monitoring of individual chassis components.
DRAC Monitoring	iDRAC inventory iDRAC health monitoring	Not Applicable.
Chassis Modular Server Correlation	Correlate Dell Modular servers with Chassis (view inventory and health from chassis up to components inside Dell Modular server).	Not Applicable.

Removing Monitoring Features using Dell Feature Management Dashboard

To remove the monitoring features, use the **Dell Feature Management Dashboard**. Before removing any of the monitoring features, close or resolve all open alerts. While removing a monitoring feature, the **Feature Management Dashboard** exports all override references as backup in the installation folder, but custom group information and override instance level information cannot be reused in the future.

To remove the monitoring features:

- 1. Launch the OpsMgr, click Monitoring.
- In the Monitoring pane, browse to Dell → Feature Management Dashboard.
 The Feature Management Dashboard pane displays the list of monitoring features present in the OpsMgr.
- 3. Select the monitoring feature you want to remove.
- 4. Under the Tasks pane, expand Dell Monitoring Feature Tasks.
 - **NOTE:** In System Center Operations Manager 2007 R2, the **Tasks** pane is referred to as **Actions** pane.
- **5.** Click **Remove Feature** to remove the monitoring feature.

For example, to remove Servers and Rack Workstations Agent-based Monitoring feature, click Remove Agent-based Monitoring Feature under the Tasks pane.

- 6. On the Run Task Remove Feature screen, select the Use the predefined Run As Account option.
- 7. Click Run.

CAUTION: If there are any dependencies or associations that have to be overridden, which result in data loss, the task fails with the appropriate message. To proceed with the task, click Override and set the AutoResolve Warnings/Errors override to True. For more information, see Feature Management Dashboard task fails.

8. Click **Close** after the task is complete.



NOTE: Performing Remove Monitoring Feature task in Feature Management Dashboard may fail if there are overrides referenced to custom group, or instances. In such a case, ensure to remove the overrides that are associated to custom group, or instances.

Agent-based Monitoring Feature

Agent-based monitoring feature supports the discovery and monitoring of Dell PowerEdge monolithic and modular servers, Dell PowerVault storage servers, Dell OEM Ready servers, and supported Dell Precision Racks by running the supported Windows operating system and OpenManage Server Administrator (OMSA). For information on supported OMSA versions, see *Dell Server Management Pack Suite Version 6.2 for Microsoft System Center Operations Manager Release Notes*.

The Dell Server Management Pack Suite installer automatically imports the Agent-based monitoring feature.

Management Packs

After the Dell Server Management Pack Suite management packs are successfully imported, the following management packs should appear in the **Administration** pane of the OpsMgr console. For more information, see Importing Dell Server Management Packs into OpsMgr.

Table 6. Agent-based Monitoring Feature and required Management Packs

Feature	Default Location of Management Packs	Required Management Packs
Servers and Rack Workstations Agent-based Monitoring	C:\Program Files\Dell Management Packs\Server Mgmt Suite\6.2\Library Scalable and Detailed Management Packs C:\Program Files\Dell Management Packs\Server Mgmt Suite\6.2\Server Monitoring	 Library Dell.Connections.HardwareLibrary.mp Dell.OperationsLibrary.Server.mp Scalable Feature Dell.Model.Server.mp Dell.WindowsServer.Scalable.mp Dell.View.Server.mp (Optional) Dell.WindowsServer.InformationAlerts On.mp NOTE: Import Dell.WindowsServer.InformationAlerts On.mp only if you want to receive Informational Alerts. Detailed Feature Dell.WindowsServer.Detailed.mp and all scalable management packs.

Configuration prerequisite

Connectivity to System Center Operations Manager (SCOM) agent to discover Dell devices.

Management Server (MS) requirements

Supported Operating Systems

Following lists the operating systems supported by OpsMgr for the management server:

- For OpsMgr 2012 R2, OpsMgr 2012 SP1 and OpsMgr 2012, see technet.microsoft.com/en-us/library/ hh205990.aspx.
- For OpsMgr 2007 R2, see technet.microsoft.com/en-us/library/bb309428(en-us).aspx.

Software requirements

Table 7. Prerequisites for Software

Software	Purpose
(Optional) DRAC tools from Dell OpenManage Server Administrator (Server Administrator)	To inventory and monitor Dell server's and Rack Workstation's iDRAC and its NIC.
(Optional) Dell License Manager (for iDRAC7 or later systems only)	To launch Dell License Manager console, deploy licenses and collect reports; install Dell License Manager on the management server. For more information, see <i>Dell License Manager User's Guide</i> at dell.com/support/home .
(Optional) Dell OpenManage Power Center	To launch Dell OpenManage Power Center console. To monitor and manage power consumption, and temperature in the data center using the OpsMgr console, install Dell OpenManage Power Center on the management server. For more information, see Dell OpenManage Power Center Installation Guide at dell.com/support/home.
(Optional) Baseboard Management Controller (BMC) Management Utility	To run the Remote Power Control tasks or the LED Identification Control tasks on Dell managed systems.



NOTE: Access DRAC tools, Dell OpenManage Server Administrator (Server Administrator), BMC Management Utility, and Dell License Manager from Dell Systems Management Tools and Documentation media, or download it from dell.com/support.

Management Server Action Account (MSAA)

Table 8. MSAA privileges

Feature	User Privilege
DRAC discovery and corresponding DRAC console launch	Admin or Power user.
Clear ESM log	Admin or Power user. Alternatively, if the MSAA has normal user privileges, operators can, instead of selecting Use the predefined Run as Account , enter task credentials with Power User (or higher) privileges to run the Clear ESM Logs task.

Managed System requirements

Install any supported Server Administrator versions (including the Server Administrator Storage Management Service) on the managed system.

- NOTE: If you want to upgrade or uninstall Server Administrator on the managed system, the Alerts View of the managed system may display the following error: Script or Executable failed to run. If the managed system is not a management server, then switch the system to the Maintenance Mode until the upgrade or uninstall completes. If the managed system is the management server, you may manually close the alerts after the upgrade or uninstall is complete.
- **NOTE:** On systems using Server Administrator 7.2 DRAC tools, it is recommended to upgrade to Server Administrator 7.4 DRAC tools or later.
- **NOTE:** For more information on the supported operating systems for the managed system, see *Dell OpenManage Server Administrator Installation Guide* at **dell.com/support/home**.

Feature Management tasks

The following table lists the Agent-based monitoring feature tasks available on the **Feature Management Dashboard**. Some tasks listed in the Feature Management tasks table appear only after you have imported the Agent-based monitoring feature.

- **NOTE:** In the Event log, ignore the errors pertaining to reimporting of existing management packs under the error logs. These errors occur when **Feature Management Dashboard** reimports all the dependent management packs that are already imported while importing a monitoring feature.
- **NOTE:** Wait for a task to complete (view the state update change in the dashboard) before launching another task using the **Feature Management Dashboard**.

Table 9. Feature Management tasks

Tasks	Description
Import Agent-based Detailed Feature	Imports the detailed feature of Agent-based monitoring feature.
Import Agent-based Scalable Feature	Imports the scalable feature of Agent-based monitoring feature.
Set Agent-based as Preferred Monitoring Method	This task enables the Agent-based monitoring feature as the preferred monitoring method for your Dell server and Rack Workstation, when the Dell servers and Rack Workstations in the setup are monitored through both, Agent-based and Agent-free monitoring feature.
Set to Agent-based Scalable Feature	If the Detailed feature is running on the system, the Feature Management Dashboard switches from the Detailed to the Scalable feature.
	On upgrading from the previous version, run this task to use the latest version for this monitoring feature.
Set to Agent-based Detailed Feature	If the Scalable feature is running on the system, the Feature Management Dashboard switches from the Scalable to the Detailed feature.
	On upgrading from the previous version, run this task to use the latest version for this monitoring feature.
Set Informational Alerts On	Informational alerts are turned on when the Agent-based Scalable monitoring is in use.
Set Informational Alerts Off	Informational alerts are turned off when the Agent-based Scalable monitoring is in use.
Refresh Dashboard	Updates the Feature Management Dashboard .
	NOTE: The Refresh dashboard task may not update the dashboard immediately; it might take a few minutes to update the dashboard contents.
Refresh Node Count	Updates the node count.
Remove Agent-based Monitoring Feature	Removes the Agent-based monitoring feature.

Agent-free Monitoring Feature

Agent-free monitoring feature provides detailed inventory and monitoring of 12th generation and 13th generation of Dell PowerEdge servers, Dell PowerVault systems, supported Dell Precision Racks, Dell branded OEM servers, and Dell OEM Ready servers through the server's iDRAC by using WS-MAN and SNMP.

Dell Server Management Pack Suite installer automatically imports the Agent-free monitoring feature if the prerequisites are met.

Management Packs

After the Dell Server Management Pack Suite management packs are imported, the following management packs should appear in the **Administration** pane of the OpsMgr console. For more information, see Importing the Dell Server Management Packs into OpsMgr.

Table 10. Agent-free monitoring feature and required Management Packs

Feature	Default Location of Management Packs	Required Management Packs
Servers and Rack Workstations Agent-free Monitoring	Library C:\Program Files\Dell Management Packs\Server Mgmt Suite\6.2\Library	Library Dell.Connections.HardwareLibrary.mp Dell.OperationsLibrary.Common.mp Scalable Feature
	Scalable and Detailed Management Packs C:\Program Files\Dell Management Packs\Server Mgmt Suite\6.2\Server Monitoring	 Dell.Model.Server.mp Dell.OperationsLibrary.Server.mp Dell.Server.OOB.mp Dell.View.Server.mp Detailed Feature Dell.Server.OOB.DetailedMonitoringOn.mp and all scalable management packs.

Configuration prerequisites

- Ensure that there is WS-MAN (WS-Management) connectivity to iDRAC
- Ensure that the SNMP ports on firewall are enabled
- Ensure that Dell Device Helper is installed
- Ensure that MaxEnvelopeSizekb value in WinRM setting is higher (for Windows Server 2008 R2 only)

Management Server (MS) requirements

Table 11. Prerequisites for software

Software	Purpose
(Required) OpsMgr 2012 or later	Agent-free monitoring feature is available only on management servers running OpsMgr 2012.
(Required) SMASH Library MPB from Microsoft	Agent-free monitoring feature requires SMASH library MPB from Microsoft to discover Dell servers. For more information, see <u>Installing the WS-Management and SMASH Device Template</u> .
(Optional) Dell License Manager (for iDRAC7 or later systems only)	To launch Dell License Manager console, deploy licenses and collect reports; install Dell License Manager on the management server. For more information, see <i>Dell License Manager User's Guide</i> at dell.com/support/home. .
(Optional) Dell OpenManage Power Center	To launch Dell OpenManage Power Center console. To monitor and manage power consumption, and temperature in the data center using the OpsMgr console, install Dell OpenManage Power Center on the management server. For more information, see Dell OpenManage Power Center Installation Guide at dell.com/support/home.

Managed System requirements

To discover and monitor managed system, iDRAC7 or later is required.



NOTE: Install iSM 2.0 or later on the managed system for Host-NIC discovery and monitoring.

Feature Management tasks

The following table lists the Agent-free Monitoring feature tasks available on the **Feature Management Dashboard**. Some tasks listed in the Feature Management tasks table appear only after you have imported the Agent-free monitoring feature.



NOTE: In the Event log, ignore the errors pertaining to reimporting of existing management packs under the error logs. These errors occur when **Feature Management Dashboard** reimports all the dependent management packs that are already imported while importing a monitoring feature.



NOTE: Wait for a task to complete (view the state update change in the dashboard) before launching another task using the **Feature Management Dashboard**.

Table 12. Feature Management tasks

Tasks	Description
Import Agent-free Scalable Feature	Imports the scalable feature of Agent-free monitoring feature.
Import Agent-free Detailed Feature	Imports the detailed feature of Agent-free monitoring feature.
Set to Agent-free Scalable Feature	If the detailed feature is running on the system, the Feature Management Dashboard switches from the detailed feature to the scalable feature. On upgrading from the previous version, run this task to use the latest version for this monitoring feature.
Set to Agent-free Detailed Feature	If the scalable feature is running on the system, the Feature Management Dashboard switches from the scalable feature to the detailed feature. On upgrading from the previous version, run this task to use the latest version for this monitoring feature.
Set Agent-free as Preferred Monitoring Method	Enables the Agent-free monitoring feature as the preferred monitoring method for your Dell server and Rack Workstation, when the Dell servers and Rack Workstation in the setup are monitored through both, Agent-based monitoring feature, and Agent-free monitoring feature.
Associate Run-As Account	This task associates the Run As Account used for SMASH discovery with all Dell Server objects, required for health monitoring. For more information, see Associate Run As-Account task.
Remove Agent-free Monitoring Feature	Removes the Agent-free monitoring feature.
Refresh Dashboard	Updates the Feature Management Dashboard . NOTE: The Refresh dashboard task may not update the dashboard immediately; it might take a few minutes to update the dashboard contents.
Refresh Node Count	Updates the node count.

DRAC Monitoring Feature

DRAC monitoring feature supports discovery, and monitoring for the various generations of iDRAC (iDRAC6, iDRAC7, and iDRAC8 systems) using SNMP.

Management Packs

After the Dell Server Management Pack Suite management packs are successfully imported, the management packs listed in the DRAC monitoring feature and required Management Packs table should appear in the **Administration** pane of the OpsMgr console. For more information, see Importing the Dell Server Management Packs into OpsMgr.

Table 13. DRAC monitoring feature and required Management Packs

Feature	Default Location of Management Packs	Required Management Packs
DRAC Monitoring	C:\Program Files\Dell Management Packs\Server Mgmt Suite\6.2\Library	Dell.Connections.HardwareLibrary.mp Dell.OperationsLibrary.Common.mp
	Management Packs C:\Program Files\Dell Management Packs\Server Mgmt Suite\6.2\Remote Access Monitoring	 Management Packs Dell.DRAC.OM07.mp — OpsMgr 2007 R2 Dell.DRAC.OM12.mp — OpsMgr 2012 Dell.Model.DRAC.mp Dell.OperationsLibrary.DRAC.mp Dell.View.DRAC.mp

Configuration prerequisite

Enable SNMP ports on firewall for SNMP functionality.

Management Server (MS) requirements

Table 14. Software requirements

Software	Purpose
(Optional) Dell License Manager (for iDRAC7 systems only)	To deploy licenses and collect reports from the management server. To launch Dell License Manager console, install Dell License Manager on the management server. For more information, see Dell License Manager User's Guide at dell.com/support/home.
(Optional) Dell OpenManage Power Center	To launch Power Center console, install Dell OpenManage Power Center on the management server. For more information, see Dell OpenManage Power Center Installation Guide at dell.com/support/home.

DRAC monitoring requirement

To monitor the health of DRAC devices, associate the community string **Run As account** with the **SNMP Monitoring Account** with the target as **Dell Remote Access Controller** class or respective DRAC object (if you have different Run As accounts for different DRAC devices).

Feature Management tasks

The following table lists the DRAC monitoring tasks available in the **Feature Management Dashboard**. Some tasks listed in the Feature Management tasks table appear only after you have imported the DRAC monitoring feature.



NOTE: In the Event log, ignore the errors pertaining to reimporting of existing management packs under the error logs. These errors occur when **Feature Management Dashboard** reimports all the dependent management packs that are already imported while importing a monitoring feature.



NOTE: Wait for a task to complete (view the state update change in the dashboard) before launching another task using the **Feature Management Dashboard**.

Table 15. Feature Management tasks

Tasks	Description
Import DRAC Monitoring Feature	Enables the DRAC monitoring feature.
Upgrade DRAC Monitoring Feature	Upgrades to the latest version of the DRAC monitoring feature.
Refresh Dashboard	Updates the Feature Management Dashboard .

Tasks	Description	
	NOTE: The Refresh Dashboard task may not update the dashboard immediately; it might take a few minutes to update the dashboard contents.	
Refresh Node Count	Updates the node count.	
Remove DRAC Monitoring Feature	Removes the DRAC monitoring feature.	

Chassis Monitoring Feature

The Chassis monitoring feature supports discovery and monitoring of Chassis Management Controller (CMC) on Dell PowerEdge FX2/FX2s chassis, Dell PowerEdge VRTX chassis, Dell PowerEdge M1000e chassis, and Dell OEM Ready chassis using SNMP and WS-MAN.

Chassis monitoring feature also supports Detailed monitoring of individual chassis components in OpsMgr 2012.

Management Packs

After the Dell Server Management Pack Suite management packs are successfully imported, the following management packs should appear in the **Administration** pane of the OpsMgr console. For more information, see Importing the Dell Server Management Packs into OpsMgr.

The following table lists the required management packs for the chassis monitoring feature.

Table 16. Required Management Packs

Feature	Default Location of Management Packs	Required Management Packs
Chassis Monitoring	Library	Library
-	C:\Program Files\Dell	Dell.Connections.HardwareLibrary. mp
	Management Packs\Server Mgmt Suite\6.2\Library	Dell.OperationsLibrary.Common.mp Scalable Feature
		Scalable i calare
	Scalable and Detailed Management Packs	Dell.CMC.OM07.mp — OpsMgr 2007 R2
	C:\Program Files\Dell	Dell.CMC.OM12.mp — OpsMgr 2012
	Management Packs\Server	Dell.Model.Server.mp
	Mgmt Suite\6.2\Chassis	Dell Operations Library CMC .mp
	Monitoring	Dell.View.CMC.mp
		Detailed Feature
		Dell.Chassis.Detailed.mp and all scalable management packs.

Configuration prerequisites

- Ensure that SNMP ports on firewall are enabled
- Ensure that Dell Device Helper is installed

• Ensure that there is WS-MAN (WS-Management) connectivity

Chassis Monitoring requirements

- For slot discovery and correlation to work; ensure that you have Dell Device Helper utility installed.
- To monitor Chassis controller, IO Module, IO Module Group, Power Supply, and Power Supply Group components; enable RACADM utility. RACADM utility is now required only to monitor the health of Chassis controller, IO Module, IO Module Group, Power Supply, and Power Supply Group components.
- To monitor the health of Chassis devices, associate the community string **Run As account** with the **SNMP Monitoring Account** with the target as **Dell Modular Chassis** class or respective Chassis object (if you have different Run As accounts for different Chassis devices).
- To discover Chassis Slots and Chassis Slot Summary for CMC; create Run As Accounts and associate
 it to the profiles Dell CMC Login Account Run As Profiles. Also, enable the CMC Slot Discovery
 from the OpsMgr console. For more information, see Configuring Dell Chassis Management
 Controller feature for Correlating Server Modules with Chassis Slot Summary.
- To perform Chassis Detailed monitoring; create Run As Accounts with WS-MAN credentials required
 for accessing the Dell CMCs, and associate it to the profiles Dell CMC Login Account Run As
 Profiles.



• If you are using AD domain credentials for CMC, then, enter the credentials in the following format: username@domainname.com

Configuring Dell Chassis Management Controller feature for Correlating Server Modules with Chassis Slot Summary

To configure CMC feature for correlating server modules, create **Run As Accounts** and associate it to Run As Profiles to populate chassis slot summary.

- Create a Run As Account of type Simple Authentication that has privileges to connect to the CMC module on the chassis. Also, use Basic or Digest Run As Account types for configuring the user credentials.
- 2. Select the More Secure or Less Secure option in Run As Account configuration, so that you can selectively distribute the configuration to specific management servers.
 - For information on creating a **Run As Account** of type Simple Authentication, see the "Creating A Simple Authentication Run As Account" section of *Dell Server Management Pack Suite Version 6.2 for Microsoft System Center Operations Manager User's Guide* at **dell.com/**
 - OM Connections Enterprise Systems Management.
 - **NOTE:** Add the **Server Management Action** account to the OpsMgr administrator group.
- **3.** Associate the created Run As Accounts with the **Dell CMC Login Account** profile and select the appropriate class, group, or object on which you can configure the profile.
 - To enable slot summary discovery for CMC, override the enable property to True in Dell CMC Slot Discovery. It is disabled by default.
 - NOTE: After the slot discovery, if you remove the link between **Run As Account** with **Run As Profile**, or disable the slot-discovery workflow, the discovered slots remain with old data.

Feature Management tasks

The following table lists the Chassis monitoring tasks available on the **Feature Management Dashboard**. Some tasks listed in the Feature Management tasks table appear only after you have imported the Chassis monitoring feature.



NOTE: In the Event log, ignore the errors pertaining to reimporting of existing management packs under the error logs. These errors occur when **Feature Management Dashboard** reimports all the dependent management packs that are already imported while importing a monitoring feature.



NOTE: Wait for a task to complete (view the state update change in the dashboard) before launching another task using the **Feature Management Dashboard**.

Table 17. Feature Management tasks

Tasks	Description	
Import Chassis Monitoring Scalable Feature	Imports the chassis monitoring scalable feature.	
Import Chassis Monitoring Detailed Feature	Imports the chassis monitoring detailed feature.	
Set to Chassis Scalable Feature	If the Detailed feature is running on the system, the Feature Management Dashboard switches from the detailed feature to the scalable feature. On upgrading from the previous version, run this task to use the latest version for this monitoring feature.	
Set to Chassis Detailed Feature	If the scalable feature is running on the system, the Feature Management Dashboard switches from the scalable feature to the detailed feature.	
Remove Chassis Monitoring Feature	Removes the chassis monitoring feature (both scalable and detailed features).	
Refresh Node Count	Updates the node count.	
Refresh Dashboard	Updates the Feature Management Dashboard . NOTE: The Refresh dashboard task may not update the dashboard immediately; it might take a few minutes to update the dashboard contents.	

Chassis Modular Server Correlation Feature

Chassis Modular Server Correlation feature supports:

- Correlation of discovered Dell Modular Servers using Agent-free or Agent-based monitoring feature with Chassis slots.
 - **NOTE:** CMC slot discovery is disabled by default. Hence, enable CMC slot discovery for the correlation feature to work.
- Correlation of Chassis Shared Storage components with Dell servers.
 - **NOTE:** Imports Chassis detailed monitoring for the correlation of chassis shared components with Dell servers.

Management Packs

After the Dell Server Management Pack Suite management packs are successfully imported, the following management packs should appear in the **Administration** pane of the OpsMgr console. For more information, see Importing the Dell Server Management Packs into OpsMgr.

Table 18. Chassis Modular Server Correlation monitoring feature and required Management Packs

Feature	Default Location of Management Packs	Required Management Packs
Chassis Modular Server Correlation	C:\Program Files\Dell Management Packs\Server Mgmt Suite\6.2\Library	 Dell.Connections.HardwareLibrary.m Dell.OperationsLibrary.Common.mp
	Management Pack C:\Program Files\Dell Management Packs\Server Mgmt Suite\6.2\ChassisModular ServerCorrelation	Management Pack Dell.ChassisModularServer.Correlation.mp

Management Server (MS) requirements

Chassis Modular Server Correlation monitoring requirements

Chassis Blade correlation in distributed OpsMgr environment

In a distributed OpsMgr 2007 R2 environment, enable server proxy on the management server where you discover and monitor the CMC.

To enable the proxy agent:

- 1. In the OpsMgr console, click Administration.
- 2. In the Administration pane, expand Administration → Device Management → Management Servers.
- 3. Select the management server where you have discovered the chassis devices.
- 4. Right-click and select Properties.
- 5. In Management Server Properties, click Security.
- 6. Select Allow this server to act as a proxy and discover managed objects on other computers.
- 7. Click OK.

Feature Management tasks

The following table lists the Chassis Modular Server Correlation feature tasks available on the **Feature Management Dashboard**. Some tasks listed in the Feature Management tasks table appear only after you have imported the Chassis Modular Server Correlation monitoring feature.



NOTE: In the Event log, ignore the errors pertaining to reimporting of existing management packs under the error logs. These errors occur when **Feature Management Dashboard** reimports all the dependent management packs that are already imported while importing a monitoring feature.



NOTE: Wait for a task to complete (view the state update change in the dashboard) before launching another task using the **Feature Management Dashboard**.

Table 19. Feature Management tasks

Tasks	Description	
Import Chassis Modular Server Correlation Feature	Enables the chassis modular server correlation feature.	
Upgrade Chassis Modular Server Correlation Feature	Upgrades to the latest version of the chassis modular server correlation feature.	
Remove Chassis Modular Server Correlation Feature	Removes the chassis modular server correlation feature.	
Refresh Dashboard	Updates the Feature Management Dashboard. NOTE: The Refresh dashboard task may not update the dashboard immediately; it might take a few minutes to update the dashboard contents.	

Troubleshooting

The following chapter provides information for troubleshooting installation related errors.

Feature Management Dashboard does not populate

In a distributed setup, the management server where the Dell Server Management Pack suite is installed first is selected to host all feature management activities such as discoveries, alerts, and tasks. The management server on which the Dell Server Management Pack suite is installed first populates the Feature Management Dashboard. However, if you have manually imported the Feature Monitoring management pack without running the installer on the management server, the Feature Management Pack host is not selected and hence, the **Feature Management Dashboard** does not populate.

To populate the Feature Management Dashboard:

- 1. In the OpsMgr console, click **Authoring**.
- 2. In Authoring, expand Management Pack Objects.
- 3. Click Object Discoveries.
- 4. In the Look for: field, search Dell Feature Management Host Discovery.
- 5. Right-click **Dell Feature Management Host Discovery** and select **Overrides** → **Override the Object Discovery** → **For all objects of class: Dell Feature Management Host Discovery**.
- 6. To run the feature management activities, select **FmpHostFqdn** and set the override value to FQDN of the management server.
- Ø

NOTE: To schedule the feature management workflows in OpsMgr 2007 R2 clustered environment; override the FmpHostFqdn value to the cluster's FQDN.

Feature Management Dashboard task fails

Performing upgrade task in **Feature Management Dashboard** can result in data loss; for example, if there are any dependencies or associations on the monitoring feature being modified, the upgrade task fails with the appropriate message.



CAUTION: Overriding task parameters results in management pack or operational data loss.

- 1. Launch OpsMgr console and click Monitoring.
- In the Monitoring pane, browse to Dell → Feature Management Dashboard.
 Feature Management Dashboard displays the list of management packs present in OpsMgr and the management pack version to which you can upgrade.
- **3.** Select the monitoring feature.
- 4. Under Tasks, expand Dell Monitoring Feature Tasks.
- **5.** Click the upgrade monitoring task.

For example, to upgrade **Chassis Monitoring** feature, click **Upgrade Chassis Monitoring Feature** under **Dell Monitoring Feature Tasks**.

- 6. On the Run Task Upgrade Monitoring Feature screen, click Override.
 - Override Task Parameters are displayed.
- From the drop-down menu in the New Value column, change the value of AutoResolve Warnings/ Errors to True.
- 8. Click Override.
- 9. Click **Run** to run the task.

Feature Management alerts

Table 20. Feature Management alerts

Alert Text	Alert State	Cause	Resolution
Dell FMP: Dell Device Helper Utility is either not present or incompatible with Dell Agent-free monitoring Management Pack.	Critical	The required Dell Device Helper Utility version was not found or the Dell Device Helper Utility is corrupted. A version higher than the required Dell Device Helper Utility version was found. A version lower than the required Dell Device Helper Utility version was found.	Run the Dell Server Management Pack Suite version 6.2 installer on the management server. Use the Repair option in the installer. For more information, see <u>Using</u> the Repair option in the Installer.

Health Service of the Feature Management Host Server is nonfunctional

In a distributed setup, the management server where the Dell Server Management Pack suite is installed first is selected to host all feature management activities such as discoveries, alerts and tasks. If the selected management server has stopped functioning, the executed Feature Management task fails, and **Feature Management Dashboard** is not populated. If such a selected management server is corrupt or health service is not obtained, decommission the management server to remove stale objects. For more information, see **technet.microsoft.com/en-us/library/hh456439.aspx**.

To populate the Feature Management Dashboard:

- 1. In the OpsMgr console, click **Authoring**.
- 2. In Authoring, expand Management Pack Objects.
- 3. Click Object Discoveries.
- 4. In the Look for: field, search Dell Feature Management Host Discovery.
- Right-click Dell Feature Management Host Discovery and select Overrides → Override the Object Discovery → For all objects of class: Dell Feature Management Host Discovery.

6.	Select FmpHostFqdn and set the override value to FQDN of the management server where the feature management activities have to run.			

Appendix

Installing the Web Services Management (WS-Man) and SMASH Device Template

To install the WS-Man and SMASH Device template:

- Download the SMASH Library MPB file WS-ManagementAndSMASHDeviceDiscoveryTemplate.msi from go.microsoft.com/fwlink/? LinkID=244308 to a temporary location.
- 2. Run the .msi to copy SMASH Library MPB file to the user/default location.
- 3. Launch the OpsMgr 2012 console.
- **4.** From the navigation pane, click **Administration**.
- 5. Expand Administration, right-click Management Packs, and select Import Management Packs.
- 6. Click Add \rightarrow Add from disk.
- 7. Type the location details or navigate to the location where you downloaded the Microsoft's SMASH Library MPB file.
- Select the MPB file and click Open.
 The Import Management Packs screen is displayed with the template in the Import List.
- 9. Click Install.

Associate Run As-Account task — Agent-free Monitoring Feature

Associate Run As-Account task associates the Run As Account used for SMASH discovery with all Dell Server objects, required for health monitoring. This task is available as an option for performing object-level association.



WARNING: Perform the Associate Run As-Account task only if necessary. This task affects the configuration of all Dell Server objects. Dell Server Run As Account Association unit monitor automatically performs the object-level association.

Accessing documents from Dell support site

You can access the required documents in one of the following ways:

- Using the following links:
 - For all Enterprise Systems Management documents Dell.com/SoftwareSecurityManuals
 - For OpenManage documents <u>Dell.com/OpenManageManuals</u>
 - For Remote Enterprise Systems Management documents <u>Dell.com/esmmanuals</u>
 - For OpenManage Connections Enterprise Systems Management documents <u>Dell.com/OMConnectionsEnterpriseSystemsManagement</u>
 - For Serviceability Tools documents <u>Dell.com/ServiceabilityTools</u>
 - For OpenManage Connections Client Systems Management documents <u>Dell.com/</u> <u>DellClientCommandSuiteManuals</u>
- From the Dell Support site:
 - a. Go to **Dell.com/Support/Home**.
 - b. Under Select a product section, click Software & Security.
 - c. In the **Software & Security** group box, click the required link from the following:
 - Enterprise Systems Management
 - Remote Enterprise Systems Management
 - Serviceability Tools
 - Dell Client Command Suite
 - Connections Client Systems Management
 - d. To view a document, click the required product version.
- Using search engines:
 - Type the name and version of the document in the search box.