

Dell Smart Plug-in Version 3.0 For HP Operations Manager 9.0 For Microsoft Windows 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 on software prerequisites and requirements to install and uninstall Dell Smart Plug-in (SPI) Version 3.0 for Hewlett Packard Operations Manager (HPOM) 9.0 for Microsoft Windows.

 **NOTE:** This plug-in is applicable for 64-bit systems.

The Dell SPI installer (**Dell Smart Plug-in v3.0_x64.msi**), Installation Guide and the Readme file are packaged in the self-extracting executable **Dell Smart Plug-in v3.0_Axx.exe** file. You can download the executable from **support.dell.com**.

Read the Dell SPI's readme file, which contains the latest information about software and management server requirements, in addition to information about known issues. The readme file is also posted to the Systems Management documentation page at **support.dell.com/manuals**.

Prerequisites

The prerequisites for installing the Dell Smart Plug-in are as follows:

- Install Dell SPI only on HPOM management server
- Administrator and **HP_OVE_ADMIN** privileges on the HP Operations Manager (HPOM) management server
- WinRM privileges to monitor Dell ESXi systems
- .Net Framework 3.5

Software Requirements For Management Server

The following table lists the software requirements on the management server.

Table 1. Software Requirements For Management Server

Requirement	Description
HPOM 9.0 for Windows with the latest patches	For more information on installing HPOM, see the <i>HP Operations Manager 9.0 Installation Guide</i> available on the HP support website.
Trap Interceptor with SNMPv2	If you want to monitor the Dell EqualLogic devices, then configure the HPOM trap interceptor to receive SNMPv2 traps. For more information, see Configure SNMP conditions section in HP Operations Manager online help.
SNMP Service	Install and enable SNMP. For more information, see Related Documents .
WinRM 2.0 service	Install and configure WinRM version 2.0 or later to establish communication with the Dell ESXi systems that you are monitoring. For more information, see Configuring User Authorization For WinRM .
Dell Connections License Manager	Install and configure the licensing server. For more information, see <i>Dell Connections License Manager Installation Guide</i> at support.dell.com/manuals .

Software Requirements For Managed Systems

The following table lists the requirements for the managed systems.

 **NOTE:** Ensure that DNS is configured properly for all managed systems.

Table 2. Software Requirements For Managed Systems

Requirement	Description
Operating Systems	Install the supported Microsoft Windows or Linux OS, or the supported ESXi version. For more information on the supported operating systems, see Related Documents .
SNMP service	Install and enable the SNMP service and ensure that the management server can communicate with the managed

Requirement	Description
	node. For more information, see Related Documents and What To Do Next?
SNMP agent	Configure the SNMP agent to change the community name, enable Get operations , and send traps to the HPOM management server. Configure the SNMP service trap destination to receive traps on the management server. For more information on configuring the SNMP agent on Windows and Linux systems, see Related Documents .
Server Administrator	The supported versions of Server Administrator are: <ul style="list-style-type: none"> • For Windows systems — versions 6.2 to 7.1 • For ESXi and Linux systems — versions 6.2 to 7.1 Install Server Administrator on ESXi and enable the OEM CIM providers and ensure that the management server can communicate with the systems. For more information on configuring SNMP for Windows, ESXi, and Linux systems, or on enabling the OEM CIM providers, see Related Documents .

Supported Firmware Versions

The following table lists the supported firmware versions for DRAC, iDRAC, CMC, DRAC/MC, EqualLogic, and MD Storage Array devices.

Table 3. Supported Firmware Versions For DRAC, CMC, EqualLogic and MD Storage Array Devices

Dell Device	Firmware Versions Supported
iDRAC6 11G Monolithic	1.8 and 1.9
iDRAC6 11G Modular	3.3 and 3.4
iDRAC7	1.10.10 and 1.20.20
DRAC 5	1.5 and 1.6
CMC	4.0 and 4.1
DRAC/MC	1.5 and 1.6
EqualLogic	5.2.1 and 5.2.2
MD Storage Array	7.35 (MD3000), 7.75, and 7.80 (all others including Hogs 2.0)

Configuring User Authorization For WinRM

To configure user authorization for WinRM:

1. Click **Start** → **Run** on the **Windows** menu of the system.
2. Type `winrm configsddl default` and click **OK**.
3. Click **Add** to add the required local or domain users or groups to the list.
4. Provide the appropriate permission(s) to the respective users and click **OK**.

Installing The Dell SPI

 **NOTE:** You must close the HPOM console before you install Dell SPI.

To install the Dell SPI on the HPOM management server:

1. Download the Dell SPI installer from the Dell support website at support.dell.com.
2. Extract the contents of **Dell Smart Plug-in v3.0_Axx.exe** on the management server.
3. Run the **Dell Smart Plug-in v3.0_x64.msi**.
4. In the **Welcome** screen, click **Next**.
5. Select the **I accept the terms in the license agreement** option and click **Next**.
6. In the custom screen, select one or both of these options
 - **Monitor Dell Servers, DRACs, Chassis**
 - **Monitor Dell Storage**
7. Click **Next**.
8. Select **Yes** to auto-deploy the policy files during installation. To deploy them manually on the management server, select **No**.
The Summary screen displays information about the Dell SPI installation location, deployed policy files, and the tools that are installed by the Dell SPI.
9. Click **Install**.
10. Click **Finish**.

Verifying The Dell SPI Installation

To verify the Dell SPI installation:

1. Launch the HPOM console and verify that the following hierarchies are created:
 - Services Hierarchy
 - * Dell Hardware
 - a. Dell Chassis
 - 1. CMC
 - 2. DRAC/ MC
 - b. Dell DRAC
 - 1. DRAC5
 - 2. iDRAC6 Modular
 - 3. iDRAC6 Monolithic
 - 4. iDRAC7 Modular
 - 5. iDRAC7 Monolithic
 - c. Dell Servers
 - 1. ESXi Servers
 - 2. Linux Servers
 - 3. Windows Servers
 - d. Dell Storage

1. EqualLogic PS-Series Arrays
2. PowerVault MD Storage Arrays

– Nodes Hierarchy

- * Dell Managed Systems
 - a. Dell Chassis
 1. CMC
 2. DRAC/ MC
 - b. Dell DRAC
 1. DRAC5
 2. iDRAC6 Modular
 3. iDRAC6 Monolithic
 4. iDRAC7 Modular
 5. iDRAC7 Monolithic
 - c. Dell Servers
 1. Modular Servers
 2. Monolithic Servers
 - d. Dell Storage
 1. EqualLogic PS-Series Arrays
 2. PowerVault MD Storage Arrays
 - e. Dell Unresponsive Devices

2. Navigate to **Policy Management** → **Policy Groups** → **SPI for Dell Devices**.

a) Verify that the following are present under **SPI for Dell Devices**:

- * Dell Connections License Manager Scheduled Status Poll
- * Dell Server
- * Dell Storage
- * Dell Hardware Autogroup Policy

b) Verify that the following policies are present under **SPI for Dell Devices** → **Dell Server** :

- * Dell DRAC and Chassis Scheduled Status Poll
- * Dell DRAC and Chassis Traps (Manual Ack)
- * Dell OOB Server Traps (Manual Ack)
- * Dell Server Scheduled Status Poll
- * Dell Server Traps
- * Dell Server Traps (Manual Ack)

c) Verify that the following policies are present under **SPI for Dell Devices** → **Dell Storage** :

- * Dell EqualLogic Arrays Scheduled Status Poll
- * Dell EqualLogic Traps
- * Dell EqualLogic Traps (Manual Ack)
- * Dell MD Storage Arrays Scheduled Status Poll

3. Verify that the auto-deployed policies are present in the Policy Inventory.

Under **Nodes**, right-click on the management server, and select **View** → **Policy Inventory** to view the following policies:

- Dell DRAC and Chassis Scheduled Status Poll
 - Dell DRAC and Chassis Traps (Manual Ack)
 - Dell EqualLogic Arrays Scheduled Status Poll
 - Dell EqualLogic Traps
 - Dell Hardware Autogroup Policy
 - Dell MD Storage Arrays Scheduled Status Poll
 - Dell OOB Server Traps (Manual Ack)
 - Dell Server Scheduled Status Poll
 - Dell Server Traps
 - Dell Connections License Manager Scheduled Status Poll
4. Verify that the following tools are displayed under their respective folders under **Tools**.
- a) The following tools are displayed under **Tools** → **Dell Tools**.
 - * Dell Chassis
 - * Dell DRAC
 - * Dell Server
 - * Dell SPI Licensing
 - * Dell Storage
 - * OpenManage Essentials Console
 - * OpenManage Power Center Console
 - * Warranty Report
 - b) The following tools are displayed under **Tools** → **Dell Tools** → **Dell Chassis**.
 - * CMC Console
 - * DRAC/MC Console
 - c) The following tools are displayed under **Tools** → **Dell Tools** → **Dell DRAC**.
 - * DRAC Console
 - * OpenManage Server Administrator Console
 - d) The following tools are displayed under **Tools** → **Dell Tools** → **Dell Server**.
 - * Dell Remote Access Controller Console (in-band)
 - * OpenManage Server Administrator Console
 - * OpenManage Server Administrator Web Server Console
 - e) The following tools are displayed under **Tools** → **Dell Tools** → **Dell SPI Licensing**
 - * Dell Connections License Manager Console Launch Tool
 - f) The following tools are displayed under **Tools** → **Dell Tools** → **Dell Storage**.
 - * Dell EqualLogic PS-Series Arrays
 - Equallogic Group Manager Console
 - * Dell PowerVault MD Storage Arrays
 - MD Storage Manager Console
5. Verify that the Dell SPI config utility is installed in the default or the custom directory. The default location is:
C:\Program Files\Dell\OpenManage Connection for HP\.
- If any of the step fails, check the prerequisites and try again. To use the **Modify**, **Repair**, and **Remove** options in the installer, see:
- [Using The Modify Option In The Installer](#)

- [Using The Repair Option In The Installer](#)
- [Removing Dell SPI Using The Installer](#)

What To Do Next?

After you complete installing the Dell SPI, configure the SNMP parameters for Dell Windows, Linux Servers, Dell DRAC, Dell Chassis, EQL devices, DCLM parameters for OOB server monitoring, and WSMAN parameters for ESXi systems to ensure that communication between the management server and the Dell systems is established correctly. To configure the communication parameters, run the **DellSPICongfigUtility.exe** that is part of the Dell SPI installer.

You can configure the following:

- SNMP timeout and retries
- Server Administrator Web Server Console URL
- Warranty Report URL
- DCLM Parameters:
 - Webservice URL
 - Username
 - Password
- WSMAN Connection Parameters:
 - Username
 - Password
 - Timeout
 - Security options that include Certificate Authority check, Common Name check, and Revocation check

 **NOTE:** You can configure the Warranty Report URL, DCLM Webservice URL and the Server Administrator Web Server Console URL according to the environment.

The following table lists the command line options to set the different values for SNMP, Server Administrator Web Server Console URL, WSMAN, DCLM, and Warranty Report URL.

Table 4. Command Line Options

Option	Description
-snmptimeout	Specifies the SNMP timeout in milliseconds. The default value is 5000 (5 seconds). Set a value between 100 milliseconds to 4294967290 milliseconds.
-snmpretries	Specifies the number of SNMP retries. The default value is 1.
- dwsurl	Specifies the DWS URL.
-dclmwebserviceurl	Specifies the DCLM webservice URL. Example: http://dclmserver.domain.com:8543/
-dclmusername	Specifies the dclm username for logging in with basic authentication. Example: domain\username
-dclmpassword	Specifies the dclm password for logging in with basic authentication.
-getall	Specifies the values of all the options and display them on the screen. This option gets all the values for all the

Option	Description
	individual parameters except <code>wsmusername</code> , <code>wsmpassword</code> , <code>dclmusername</code> and <code>dclmpassword</code> and displays them on the screen.
<code>-resetdefaults</code>	Resets all the configurable values to the default values.  NOTE: This option does not reset the values for the <code>-wsmusername</code> , <code>-wsmpassword</code> , <code>dclmusername</code> and <code>dclmpassword</code> options.
<code>-help</code>	Displays the help for using this tool.
<code>-wsmusername</code>	Specifies user name of a local or a domain account on the ESXi system. This property determines the user name for authentication to access the ESXi system.
<code>-wsmpassword</code>	Specifies the password for the user name you specified.
<code>-wsmancheck</code>	Skips the authentication of Certificate Authority that issued the certificate. The value is either <code>yes</code> or <code>no</code> . The default value is no . If you set the value to yes , then the authentication of Certificate Authority is checked.
<code>-wsmancncheck</code>	Skips authentication of the Common Name (CN). The value is either <code>yes</code> or <code>no</code> . The default value is no . If you set the value to yes , then the common name is checked.
<code>-wsmanrevocationcheck</code>	Specifies a value to indicate whether the WSMAN connection should validate the revocation status of the server certificate or not. The value is either <code>yes</code> or <code>no</code> . The default value is no . If you set the value to yes , then the revocation status of the server certificate is checked.
<code>-wsmantimeout</code>	Specifies WSMAN timeout value in milliseconds. The default value is 30000 (30 seconds). Set a value between 500 milliseconds to 4294967290 milliseconds.

Using The Dell SPI Configuration Utility

To use the configuration utility:

1. Launch a command prompt on the management server.
2. Navigate to **DellSPIConfigUtility.exe**. The default location is **C:\Program Files\Dell\OpenManage Connection for HP**.
3. Type the following command:
`DellSPIConfigUtility.exe -<option>=<value>` and press **Enter**.
For example, if you want to set the WSMAN timeout, type the following command:
`DellSPIConfigUtility.exe -wsmantimeout=500`

 **NOTE:** If you enter invalid values, the utility displays the error message with the help text.

You must set the values for `wsmusername` and `wsmpassword` if you are monitoring the ESXi systems. You must also set the value for the Web Server Console.

When you specify the value for `wsmanshippassword`, type the following command:

`DellSPIConfigUtility.exe -wsmanshippassword` and press **Enter**. You do not need to specify `=` after `-wsmanshippassword`. When you specify the password for the first time, you need to enter the password twice. When you modify the password, the utility prompts you to enter the old password and then the new password twice.

 **NOTE:** The utility prompts you to change the `password` even when you change the `username`.

To view the values for each option other than the values for `wsmanshipusername` and `wsmanshippassword`, type the following command: `DellSPIConfigUtility.exe -<option>`

Configuring Dell Connections License Manager Parameters

To configure the Dell Connections License Manager (DCLM) parameters:

1. Install the **Dell Connections License Manager**. For more information, see *Dell Connections License Manager Version 1.0 Installation Guide* at support.dell.com/manuals.
2. Launch the command prompt on the management server.
3. Navigate to **DellSPIConfigUtility.exe**. The default location is `C:\Program Files\Dell\OpenManage Connection for HP`.
4. Set the Dell Connections License Manager web service url by typing the following command:

```
DellSPIConfigUtility.exe -dclmwebserviceurl=<License Server IP>:<port number>
```

For example: `DellSPIConfigUtility.exe -dclmwebserviceurl=http://10.56.123.255:8543`

5. Set the Dell Connections License Manager username by typing the following command:

```
DellSPIConfigUtility.exe -dclmusername=<username>
```

The utility prompts you to enter the Dell Connections License Manager password.

6. Enter the password.

You have to re-enter the password to verify if you have entered the password correctly.

When you modify the password, the utility prompts you to enter the old password and then the new password twice.

 **NOTE:** The command used to set the Dell Connections License Manager password is `DellSPIConfigUtility.exe -dclmpassword`. You do not have to specify `=` after `-dclmpassword`.

 **NOTE:** The utility prompts you to change the `dclmpassword` when you change the `dclmusername`.

Configuring Dell Connections License Manager URL

1. Select **Tools** → **Dell Tools** → **Dell SPI Licensing** → **Dell Connections License Manager Console Launch Tool**.
2. On the right pane, select **Dell Connections License Manager Console Launch Tool** and right-click, and then click **Properties** from the pop-up menu.

The **Dell Connections License Manager Console Launch Tool Properties** window is displayed.

3. In the **Dell Connections License Manager Console Launch Tool Properties** window, click the **Details** tab.

4. In the **URL: (Required)** box, enter the URL path of the **Dell Connections License Manager Console**.

Example: `http://mylicenseserver.mydomain.com:8544/DellLicenseManagement`

5. Click **Apply**.

6. Click **OK**.

The **Dell Connections License Manager Console Launch Tool** is configured on the HPOM Console.

Configuring Modular Disk (MD) Storage Manager Console

1. Install the Modular Disk (MD) Storage Manager Client on the management server.
2. Select **Tools** → **Dell Tools** → **Dell Storage** → **Dell PowerVault MD Storage Arrays**.
3. On the right pane, select **MD Storage Manager Console** and right-click, and then click **Properties** from the pop-up menu.
The **MD Storage Manager Console Properties** window is displayed.
4. In the **MD Storage Manager Console Properties** window, click the **Details** tab.
5. In the **Command Type: (Required)** drop-down list, click **Executable**.
6. Obtain the path of **Modular Disk Storage Manager Client.exe**.
The default path is **C:\Program Files (x86)\Dell\MD Storage Software\MD Storage Manager\client\Modular Disk Storage Manager Client.exe**.
7. In the **Command: (Required)** box, enter the **Modular Disk Storage Manager Client.exe** location details or click **Browse** to navigate to the location where you installed the **Modular Disk Storage Manager Client.exe** file.
8. Click **Apply**.
9. Click **OK**.
The **MD Storage Manager Console** is configured on the HPOM Console.

Configuring OpenManage Power Center (OMPC) Tool

1. Install the **OpenManage Power Center (OMPC)**. For more information, see *Dell OpenManage Power Center Version 1.1 User's Guide* at support.dell.com/manuals.
2. In the HPOM console, select **Tools** → **Dell Tools**.
3. On the right pane, select **OpenManage Power Center Console** and right-click, and then click **Properties** from the pop-up menu.
The **OpenManage Power Center Console Properties** window is displayed.
4. In the **OpenManage Power Center Console Properties** window, click the **Details** tab.
5. In the **Command Type: (Required)** drop-down list, select **URL**.
6. In the **Command: (Required)** box, enter the URL path of the **OMPC Console**.
The default URL path is **https://localhost:8643/powercenter**
 **NOTE:** OMPC Console will launch successfully using the default URL only if OMPC is installed on the same HPOM server. If OMPC is installed on another server then, obtain the URL from the respective OMPC server where OMPC is installed, and set the OMPC URL.
 - Example: **https://10.94.145.132:8643/powercenter**
 - Example: **https://hpom1w2k8r2.hpdom.com:8643/powercenter**
7. Click **Apply**.
8. Click **OK**.
The **OMPC Console** is configured on the HPOM Console.

Configuring OpenManage Essentials (OME) Tool

1. Install the **OpenManage Essentials (OME)**. For more information, see *Dell OpenManage Essentials Version x.x User's Guide* at support.dell.com/manuals.
2. In the HPOM console, select **Tools** → **Dell Tools**.

3. On the right pane, select **OpenManage Essentials Console** and right-click, and then click **Properties** from the pop-up menu.

The **OpenManage Essentials Console Properties** window is displayed.

4. In the **OpenManage Essentials Console Properties** window, click the **Details** tab.
5. In the **Command Type: (Required)** drop-down list, select **URL**.
6. In the **Command: (Required)** box, enter the URL path of the **OME Console**.

The default URL path is **https://localhost:2607/Web/Default.aspx**

 **NOTE:** OME Console will launch successfully using the default URL only if OME is installed on the same HPOM server. If OME is installed on another server then, obtain the URL from the respective OME server where OME is installed, and set the OME URL.

- Example: **https://<IP Address Or Fully Qualified Domain Name>:2607/Web/Default.aspx**
- Example: **https://10.94.149.172:2607/Web/Default.aspx**
- Example: **https://hpom1w2k&r2.hpdom.com:2607/Web/Default.aspx**

7. Click **Apply**.
8. Click **OK**.

The **OME Console** is configured on the HPOM Console.

Setting The Schedule For Auto-grouping Policy

To set the schedule for auto-grouping policy:

1. Click **Policy Management** → **Policy Groups** → **SPI for Dell Devices**.
2. **Select Dell Hardware Autogroup Policy**.
3. Right-click and select **All Tasks** → **Edit**.

The **Dell Hardware Autogroup Policy [3.0] (Scheduled Task)** screen is displayed.

4. In the **Schedule** tab, select **any** of the options in the drop-down menu, and input the desired schedule.
5. Click **Save**, and **Close**.

 **NOTE:** Deploy the Dell Hardware Autogroup Policy on the management server after setting the schedule. For more information on deploying the Dell Hardware Autogroup Policy, see *Dell Smart Plug-in Version 3.0 for HP Operations Manager 9.0 For Microsoft Windows User's Guide*.

Creating Connections License Manager Domain Groups

The following groups are created in the Windows Server Active Directory during installation of Dell Connections License Manager:

- Dell Connections License Administrators
- Dell Connections License Operators
- Dell Connections License Users

If the above domain groups are not automatically created during installation, then manually create the above groups. To create domains and add users to domains, see the Windows documentation from Microsoft at technet.microsoft.com.



NOTE: After creating the required domain groups add your Management Server Machine Account as part of the **Dell Connections License Users** group and add the current user account to the **Dell Connections License Administrators** group.

Removing Dell Devices

To remove a Dell device from the HPOM console:

1. Remove a Dell device from the HPOM console. To remove a Dell device from the HPOM console, see the section **Delete, copy, and move managed nodes** under **Maintaining nodes** in the HP Operations Manager online help.
2. If you are deleting an iDRAC7 device, perform the following steps:
 - a. Launch the command prompt on the management server.
 - b. Navigate to **DellSPIConfigUtility.exe** . The default location is **C:\Program Files\Dell\OpenManage Connection for HP**.
 - c. Type the following command:
`DellSPIConfigUtility.exe -relinquish=<iDRAC7 device servicetag>`



NOTE: The iDRAC7 device service tag can be retrieved either from the **Dell Hardware** service hierarchy or from the iDRAC7 server manually.

Using The Modify Option In The Installer

The **Modify** option in the Dell SPI installer, modifies the program features that are installed. This option retains the schedules you have set for the various policies.

To modify the program features:

1. Disable all the Dell SPI policies that are running on the management server in the HP Operations Manager (HPOM) console.
2. Run the **Dell Smart Plug-In v3.0_x64.msi** from the extracted folder.
The **Welcome** screen is displayed.
3. Click **Next**.
The installer displays three options.
4. Select the **Modify** option and click **Next**.
The **Custom** screen is displayed.
5. In the custom screen, select — **Monitor Dell Servers, DRACs, Chassis**, or **Monitor Dell Storage** to modify the feature you had installed earlier.
The **Ready to Modify** screen is displayed.
6. Click **Install**.
7. When the installation process completes, click **Finish**.

Modifying The Dell SPI Using Windows Control Panel

To modify the Dell SPI program features using Windows Control Panel:

1. Disable all the Dell SPI policies that are running on the management server in the HP Operations Manager (HPOM) console.
2. From the Start menu, select **Settings** → **Control Panel** → **Programs** → **Uninstall a program**.
3. In **Uninstall or change a program**, select **Dell Smart Plug-in v3.0** and click **Change**.
4. Click **Next**.
The installer displays three options.
5. Select the **Modify** option and click **Next**.
The **Custom** screen is displayed.
6. In the custom screen, select — **Monitor Dell Servers, DRACs, Chassis**, or **Monitor Dell Storage** to modify the feature you had installed earlier.
The **Ready to Modify** screen is displayed.
7. Click **Install**.
8. When the installation process completes, click **Finish**.

Using The Repair Option In The Installer

If you accidentally delete any of the policies from the **SPI for Dell Devices** policy group, or from the Policy Inventory of the management server, use the **Repair** option in the Dell SPI installer to re-install the policies.

The **Repair** option installs the missing Dell SPI policies, and automatically deploys all the policies on the management server. Before you use the **Repair** option, ensure that you remove or undeploy all the Dell SPI policies from the HPOM management server node on the HPOM console.

 **NOTE:** If you modify any of the policies and then delete them, the **Repair** option installs only the original version of the policies. You must modify them again as per the requirements. The repair option resets the values of the SNMP, WSMAN, DWSURL, DCLM Webservice URL and Warranty Report URL parameters to the default values. You must set the values of the parameters again.

Additionally, if any of the files are missing or corrupted, the **Repair** option replaces the file.

Repairing The Program Features

To repair the program features:

1. Run the **Dell Smart Plug-In v3.0_x64.msi** from the extracted folder.
The **Welcome** screen is displayed.
2. Click **Next**.
The installer displays three options.
3. Select the **Repair** option and click **Next**.
The **Ready to Repair** screen is displayed.
4. Click **Install**.
When the installation process completes, click **Finish**.

Repairing The Dell SPI Program Features Using Windows Control Panel

To repair the Dell SPI Program Features using Windows Control Panel:

1. From the Start menu, select **Settings** → **Control Panel** → **Programs** → **Uninstall a program**.
2. In **Uninstall or change a program**, select **Dell Smart Plug-in v3.0** and click **Repair**.

Upgrading From Dell SPI Version 2.0 And 2.1

If you have Dell SPI version 2.0 or 2.1 installed on the management server, you can upgrade the same to version 3.0.

When you upgrade from version 2.0 or 2.1, the existing policies upgrade to the version 3.0 and the existing Dell groups from nodes and services are removed and recreated automatically.

 **NOTE:** The Upgrade process does not preserve the schedule settings for the policy files. The schedules are reset to the default settings.

Upgrading Dell SPI

1. Remove or undeploy all the Dell SPI policies from the HPOM management server node on the HPOM console.
2. Close the HPOM console.
3. Run the **Dell Smart Plug-In v3.0.msi** from the extracted folder.
The **Welcome** screen is displayed. You are also prompted with a message that another version of Dell SPI is installed and whether you want to upgrade to a newer version.
4. Click **Yes** to proceed with the installation.
5. Follow steps 6 - 8 mentioned in [Installing The Dell SPI](#).

 **NOTE:** After the upgrade process is complete, the Auto-grouping policy runs automatically to group the Dell devices.

Uninstalling The Dell SPI

You can uninstall the Dell SPI from the Windows Control Panel or use the **Remove** option in the Dell SPI installer. Uninstall removes Dell SPI components such as files, registry, and scripts from the installed system.

Before you uninstall Dell SPI, ensure the following:

- Dell policies are not running on the management server.
- All the Dell SPI policies are either removed or undeployed from the HPOM management server node on the HPOM console.
- The Dell SPI directories are closed.



CAUTION: Uninstall the Dell SPI before you uninstall HPOM. If you uninstall HPOM first and then attempt to uninstall the Dell SPI, the uninstallation process may fail with errors.



NOTE: When you uninstall the Dell SPI, the following errors are displayed:

- One or more Dell SPI processes in progress.
- Stop all Dell SPI processes and try again.

To resolve this, disable the policies, or wait till the policies complete, and then retry the uninstallation.

Removing The Dell SPI Using Windows Control Panel

To remove the Dell SPI using Windows Control Panel:

1. From the Start menu, select **Settings** → **Control Panel** → **Programs** → **Uninstall a program**.
2. In **Uninstall or change a program**, select **Dell Smart Plug-in v3.0** and click **Uninstall**.
The Dell SPI v3.0 is removed from the HPOM management server.

Removing Dell SPI Using The Installer

To remove Dell SPI v3.0 using the installer:

1. Run the **Dell Smart Plug-In v3.0_x64.msi** from the folder where you extracted the contents of the self extracting package **Dell Smart Plug-in v3.0_Axx.exe**.
The **Welcome** screen is displayed.
2. Click **Next**.
The installer displays three options.
3. Select the **Remove** option and click **Next**.
The **Remove the Program** screen is displayed.
4. In the **Remove the Program** screen, click **Remove**.
The Dell SPI v3.0 is removed from the management server.

Verifying The Uninstallation Of Dell SPI

To verify that the Dell SPI is completely uninstalled from the management server:

1. Launch the HPOM console and ensure that the **SPI for Dell Devices** policy group under **Policy Management** → **Policy Group** is removed.
2. Click **Nodes** and ensure that the **Dell Managed Systems Group** is removed.
3. Click **Service** → **System Infrastructure** and ensure that the **Dell Hardware** service, **Dell SPI Licensing** service and the services tree for all Dell devices is removed.
4. Click **Tools** and ensure that the **Dell Tools** folder is removed.
5. Ensure that the Dell SPI installation directory is removed from the default or the custom path. The default path is:
C:\Program Files\Dell\OpenManage Connection For HP
6. Ensure that the Policies directory is removed. The default path is:
C:\Program Files\HP\HP BTO Software\instal\DellSPIPolicy

Related Documents

In addition to this guide, you can access the following guides available on the Dell support website at support.dell.com/manuals. On the Manuals page, click **Software** → **Systems Management**. Click the appropriate product link on the right-side to access the documents.

For example to view Dell SPI documentation on the Systems Management page, from the list of product, select **Dell OpenManage Connections** → **Dell Smart Plug-in for HP Operations Manager Version 9.0 for Microsoft Windows**

- *Dell Smart Plug-in Version 3.0 For HP Operations Manager 9.0 For Microsoft Windows User's Guide*
- *Dell OpenManage Server Administrator User's Guide*
- *Dell OpenManage With VMware ESX/ESXi 4 Systems Management Guide*
- *Dell Chassis Management Controller User's Guide*
- *Dell Integrated Remote Access Controller User's Guide*
- *Dell Remote Access Controller 5 User's Guide*
- *Dell Remote Access Controller/ Modular Chassis User's Guide*
- *Dell Connections License Manager Version 1.0 User's Guide*
- *Dell OpenManage Power Center Version 1.1 User's Guide*
- *Dell OpenManage Essentials Version x.x User's Guide*