

Dell EMC OpenManage HPE OMi Operations Connector Version 1.0

Installation Guide

Notes, cautions, and warnings

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

 **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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Introduction

This guide provides information about the software requirements, system requirements, and the steps to install and uninstall Dell EMC OpenManage HPE OMi Operations Connector Version 1.0.

The Dell EMC OpenManage HPE OMi Operations Connector provides capabilities to integrate the Dell EMC OpenManage Essentials (OME) with HPE Operations Manager i (OMi). The Operations Connector for OME helps system and IT administrators to get a comprehensive view of the Dell EMC devices in a data center by collecting the systems management data about the events and topology from OME, and transferring it to OMi. It also supports web console launch of OME directly from the OMi environment to perform further troubleshooting, configuration, and management activities for the Dell EMC devices.

The Operations Connector for OME therefore enables you to create a connection between the OME environment for lifecycle management of the Dell EMC devices and business service management in OMi by providing the following:

- Near real-time synchronization of topology information from OME to OMi
- Near real-time synchronization of event information from OME to OMi

The Operations Connector for OME installer, installation guide, and release notes are packaged in the self-extracting executable **Dell EMC OpenManage HPE OMi Operations Connector v1.0_A00.exe** file. Before installing this version of Operations Connector for OME, download the latest documents from **Dell.com/omconnectionsEnterpriseSystemsManagement** or **Dell.com/openmanagemanuals**.

Installation prerequisites

The requirements for installing the Dell EMC OpenManage HPE OMi Operations Connector are as follows:

- Ensure that you have local administrator privilege on the HPE Operations Connector server.
- Ensure that minimum of 10 GB hard disk space must be available on the HPE Operations Connector server.
- Ensure that you meet the software requirements listed in the table below:

Table 1. Software requirements

Components	Supported Version	Supported operating systems
HPE Operations Manager i (OMi)	10.12	<ul style="list-style-type: none"> • Windows Server 2012 R2 Datacenter Edition (64-bit) • Windows Server 2012 Datacenter Edition (64-bit) <p>NOTE: ESXi running the supported versions of the Windows guest operating systems is also supported.</p>
HPE Operations Connector	10.11	
Dell EMC OpenManage Essentials (OME)	2.2 and 2.3	See the OpenManage Essentials Versions 2.2 and 2.3 Support Matrix available at Dell.com/openmanagemanuals .

NOTE: It is recommended that you install OME and HPE Operations Connector on separate host systems.


Topics:

- [Supported devices](#)

Supported devices

The Dell EMC OpenManage HPE OMi Operations Connector supports all the Dell EMC devices that are supported by OpenManage Essentials (OME). For detailed information about the supported Dell EMC devices, see the **OpenManage Essentials Versions 2.2 and 2.3 Support Matrix** at Dell.com/OpenManageManuals.

Downloading and installing the Dell EMC OpenManage HPE OMi Operations Connector

1. Download the Operations Connector for OME installer from **Dell.com/support**.
2. On the HPE Operations Connector server, extract the contents of the **Dell EMC OpenManage HPE OMi Operations Connector v1.0 A00.exe** file.
The following files are extracted:
 - Dell EMC OpenManage HPE OMi Operations Connector v1.0 A00 Setup.exe file
 - Dell EMC OpenManage HPE OMi Operations Connector v1.0 IG.pdf file
 - Dell EMC OpenManage HPE OMi Operations Connector v1.0 ReadMe.txt file
3. Navigate to the directory where you have extracted the contents of the **Dell EMC OpenManage HPE OMi Operations Connector v1.0 A00.exe** file and run the **Dell EMC OpenManage HPE OMi Operations Connector v1.0 Setup.exe** file.
 **NOTE:** If you do not have the HPE Operations Connector installed, you are prompted with an error message to install the HPE Operations Connector.
4. In the **Welcome** screen, click **Next**.
5. Select the **I accept the terms in the license agreement** option and click **Next**.
6. Click **Install** and wait for the installation to complete.
7. Click **Finish**.

Post installation

Once you have successfully installed the Operations Connector for OME, you must perform the steps listed below:

1. Configuring OME connection parameters for Operations Connector
2. Configuring the task scheduler parameters
3. Activating the Dell EMC OpenManage HPE OMi Operations Connector policies
4. Creating a custom view in the HPE Operations Manager i console
5. Configuring the OME URL tool in the HPE Operations Manager i console

Topics:

- [Configuring OME connection parameters for Operations Connector](#)
- [Configuring the task scheduler parameters](#)
- [Activating the Dell EMC OpenManage HPE OMi Operations Connector policies](#)
- [Creating a custom view in HPE Operations Manager i console](#)
- [Configuring the OME URL tool in HPE Operations Manager i console](#)

Configuring OME connection parameters for Operations Connector

After installing the Operations Connector for OME, you need to configure OpenManage Essentials (OME) connection parameters using the configuration utility.

To configure the OME parameters such as OME host name, domain name, user name, password, and port number, perform the following steps:

1. On the HPE Operations Connector server, navigate to %OvDataDir%\conf\DellEMCBsmIntOME\scripts.

NOTE: <OvDataDir> is the data directory of HPE Operations Agent. The <OvDataDir> default value for the Windows operating system is **C:\ProgramData\HP\HP BTO Software**.

2. Run the following command line arguments as a local administrator:

Table 2. OME connection parameters for Operations Connector

Parameters	Syntax	Description
OME Host Name	<code>configureBsmconnectorForOME.bat - setomehostname</code>	This command is used to configure the IPv4 address or hostname of the host where the OME is installed. For example: <ul style="list-style-type: none"> • IPv4 address as 100.100.28.66 • Host name as omeserver
OME User Name	<code>configureBsmconnectorForOME.bat - setomeuser</code>	This command is used to configure the user name credential used for communicating with OME host name that you provided while configuring OME host name. Ensure that the user is either a valid Windows local/admin user of OME or a part of the same active directory domain as OME.

Table 2. OME connection parameters for Operations Connector (continued)

Parameters	Syntax	Description
OME Password	<code>configureBsmconnectorForOME.bat - setomepassword</code>	This command is used to configure the password for the OME user that you configured while configuring OME User Name.
OME Domain Name	<code>configureBsmconnectorForOME.bat - setomedomain</code>	This command is used to configure the Active Directory Domain name which is used with the OME user credentials for communicating with the OME.
OME Port Number	<code>configureBsmconnectorForOME.bat - setomeport</code>	This command is used to configure the port number for connecting with OME. If you do not provide a port number, then the default OME port number 2607 is used. If you have provided a different port number while installing OME, then ensure that you provide the same port number to configure OME port number.

 **NOTE:** For OME user-specific information, see the OpenManage Essentials User's Guide at Dell.com/omconnectionsEnterpriseSystemsManagement or Dell.com/openmanagemanuals.


Configuring the task scheduler parameters


The following are the Task Schedulers that you must configure after installing the Operations Connector for OME:

- Dell EMC Event Scheduler—Collects the topology information from OME.
- Dell EMC Topology Scheduler—Collects the event information from OME.

To configure the task scheduler parameters, perform the following steps:

1. On the HPE Operations connector server, open **Task Scheduler**.
2. In the left pane, select **Task Scheduler Library**.
3. In the right pane, you can view the following tasks:
 - Dell EMC Event Scheduler
 - Dell EMC Topology Scheduler
4. Double-click on each of the tasks. The **Properties** window is displayed for each of the tasks. In the **Properties** window, perform the following settings:
 - a. In the **General** tab, under the **Security options**, select the **Run whether user is logged on or not** option.
 - b. Click **OK**.
 - c. Enter the user login credentials when prompted.

 **NOTE:** If you are configuring the Dell EMC Event and Dell EMC Topology Scheduler tasks for the first time, ensure that you run the scheduler task manually.
5. Click **OK**.
6. Right-click on each of the tasks and click **Run**.

 **NOTE:** Ensure that both Dell EMC Event Scheduler and Dell EMC Topology Scheduler are running.

Activating the Dell EMC OpenManage HPE OMi Operations Connector policies

To populate the devices, events, and node count information from OpenManage Essentials (OME) to Operations Manager i (OMi) console, it is necessary for you to activate the Operations Connector for OME policies. For more information about the policies, go to [Dell.com/support/manuals](https://www.dell.com/support/manuals), navigate to **Software and Security > Enterprise System Management**, see the section Dell EMC OpenManage HPE OMi Operations Connector policies in the *Dell EMC OpenManage HPE OMi Operations Connector User's Guide*.

Following are the Operations Connector for OME policies:


1. [Activating the Topology Integration policy](#) on page 9
2. [Activating the Node Count Information policy](#) on page 10
3. [Activating the Event Integration policy](#) on page 9

Activating the Topology Integration policy


You need to activate the Topology Integration policy in the Dell EMC OpenManage HPE OMi Operations Connector for periodic topology synchronization of the Dell EMC devices between OME and OMi.


To activate the Topology Integration policy, perform the following steps:

1. Launch the HPE Operations Connector console.
The list of policies are displayed.
2. If you want to change the polling interval:
 - a. Double-click the **Dell EMC OpenManage HPE OMi Operations Connector–Topology Integration** policy.
The **Policy Editor** window is displayed.
 - b. Click the **Source** tab.
 - c. In the **Polling Interval** field, enter the required polling interval.
 - d. Click **Save**.
The changes made are successfully saved.

 **NOTE:** The default device polling interval is set to 24 hours.

3. Right-click the **Dell EMC OpenManage HPE OMi Operations Connector–Topology Integration** and then click **Activate**.
The topology integration policy is activated.

 **NOTE:** It is recommended that you do not change any parameters, except the polling interval, available in the Policy Editor window.


 **NOTE:** Ensure that the polling interval of the Topology Integration policy and trigger interval of the Topology Scheduler task are the same.

Activating the Event Integration policy

You need to activate the Event Integration policy in the Dell EMC OpenManage HPE OMi Operations Connector for periodic synchronization of events associated with the Dell EMC devices between OME and OMi.

To activate the Event Integration policy, perform the following steps:

1. Launch the HPE Operations Connector console.
The list of policies are displayed.
2. If you want to change the polling interval:
 - a. Double-click the **Dell EMC OpenManage HPE OMi Operations Connector–Event Integration** policy.
The **Policy Editor** window is displayed.
 - b. Click the **Source** tab.
 - c. In the **Polling Interval** field, enter the required polling interval.
 - d. Click **Save**.
The changes made are successfully saved.

 **NOTE:** The default device polling interval is set to 5 minutes.

3. To ensure that the events forwarded to the OMi console display the correct timestamp, modify the value in the **Time Created** field by performing the following steps:
 - a. Double-click the **Dell EMC OpenManage HPE OMi Operations Connector–Event Integration** policy. The **Policy Editor** window is displayed.
 - b. Click the **Defaults** tab, and then click **Event Attributes**.
 - c. In the **Time Created** field, modify the default value. For example, if your time zone is ahead of UTC by 05:30 hours, you must modify the default value **<\$DATA:/event/Time>** to **<\$DATA:/event/Time> +5.5**.
 - d. Click **Save**.
4. Right-click the **Dell EMC OpenManage HPE OMi Operations Connector–Event Integration** policy and then click **Activate**. The Event Integration policy is activated.

NOTE: It is recommended that you do not change any parameters, except the polling interval, available in the Policy Editor window.

NOTE: Ensure that the polling interval of the Event Integration policy and trigger interval of the Event Scheduler task are the same.

Activating the Node Count Information policy

You need to activate the Node Count Information policy to view the number of nodes collected after every topology information are made available to OMi.

To activate the Node Count Information policy, perform the following steps:

1. Launch the HPE Operations Connector console. The list of policies are displayed.
2. Right-click the **Dell EMC OpenManage HPE OMi Operations Connector–Node Count Information** policy and then click **Activate**.

Creating a custom view in HPE Operations Manager i console

It is recommended that you create a custom view in the HPE Operations Manager i (OMi) console so that:

- You can view all the Dell EMC devices along with associated events.
- You can view the Dell EMC infrastructure information transferred from the Dell domain manager (OME). This helps you in managing the devices effortlessly.
- You can perform necessary actions such as closing events, launching respective tool, and so on for active events.

To create a custom view in OMi, perform the following steps:

1. In the OMi console, open **Administration > RTSM Administration > Modeling > Modeling Studio**.
2. Click the **Resources** tab. Resources tab is displayed along with CI Selector and CI Types.
3. In the **Resource Type** field, select **Models** from the drop-down list. In the left pane, the **CiCollections** list is displayed.
4. Right-click the OME host name or OME IP address, and select **Open Model**. In the right pane, you can view the device hierarchy associated with the selected OME host name or OME IP address.

NOTE: Ensure that you select the same OME host name or OME IP address that was provided while configuring OME connection parameters in the section [Configuring OME connection parameters for Operations Connector](#) on page 7.
5. Right-click the OME host name (top node), and then click **Generate view for selected model**.

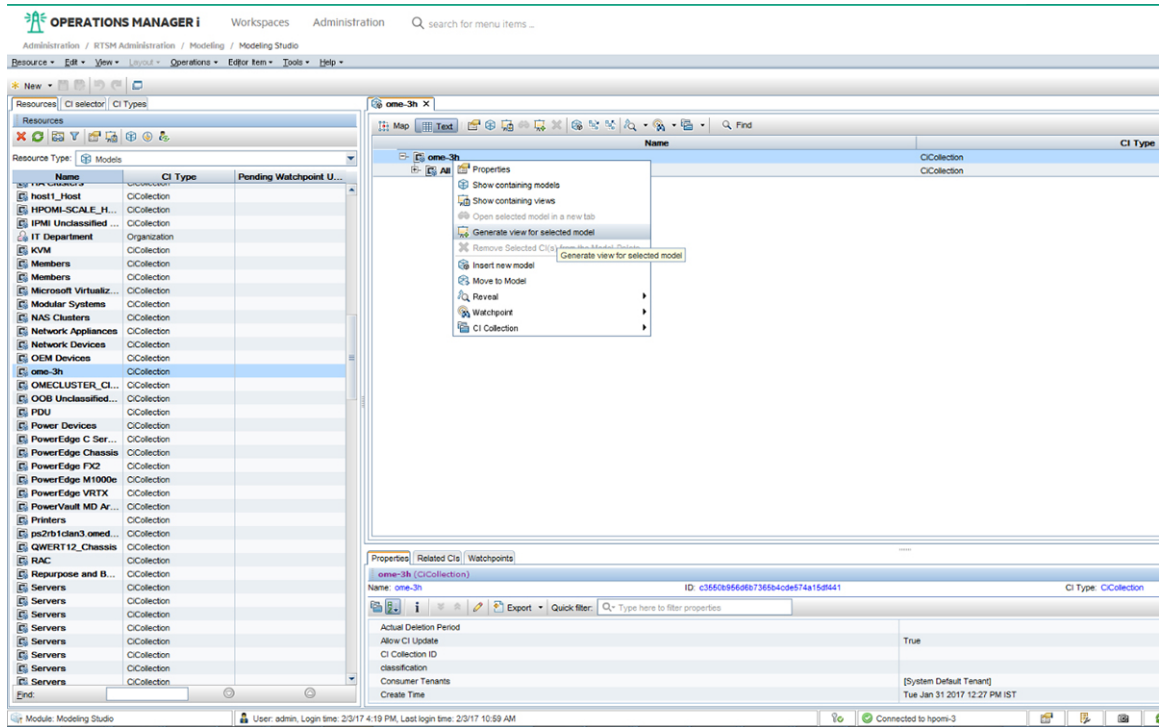


Figure 1. Generating view for selected model

The **Creating New View** window is displayed.

- In the **Creating New View** window, select **Content only - including links** from the **Available Perspectives** pane, and then move it to the **Selected Perspectives** pane.

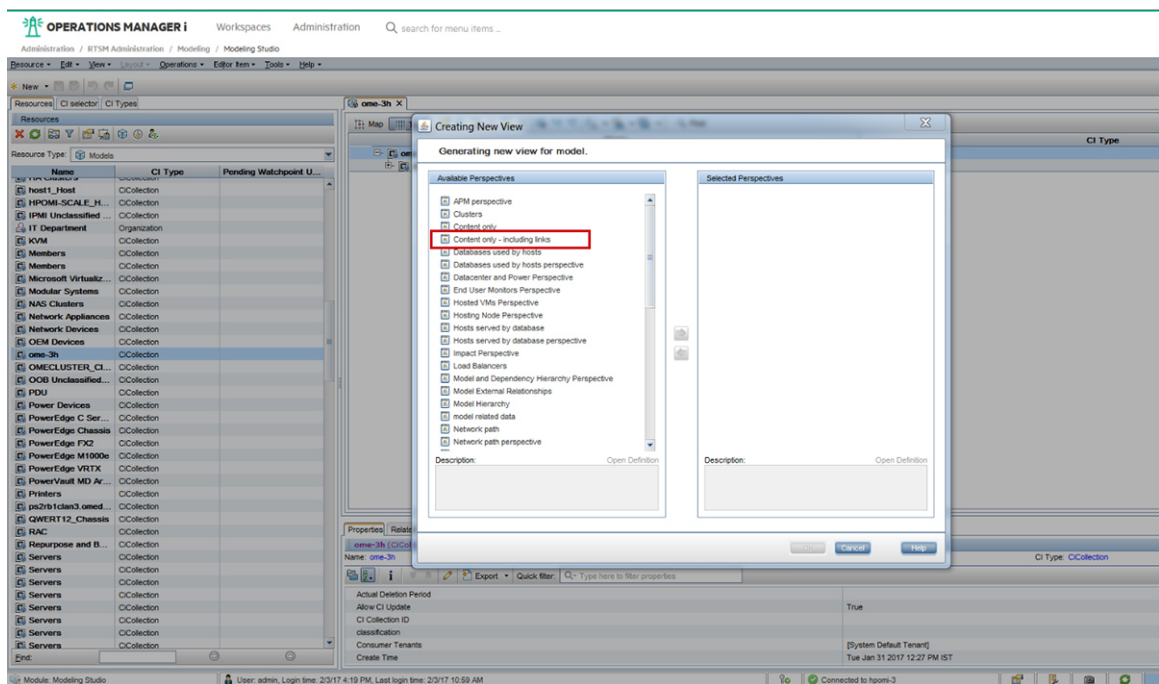


Figure 2. Creating new view

- Click **OK**.
The **Perspective_Based_View_x** window is created, where 'x' is a variable.
- Click **Save**.
The **Perspective Based View** window is displayed.
- In the **View Name** field, enter the desired name, and then click **OK**.

For information about viewing the Dell EMC devices in the OMi console, see the section Viewing the devices in HPE OMi console in the *Dell EMC OpenManage HPE OMi Operations Connector User's Guide* at Dell.com/omconnectionsEnterpriseSystemsManagement or Dell.com/openmanagemanuals.

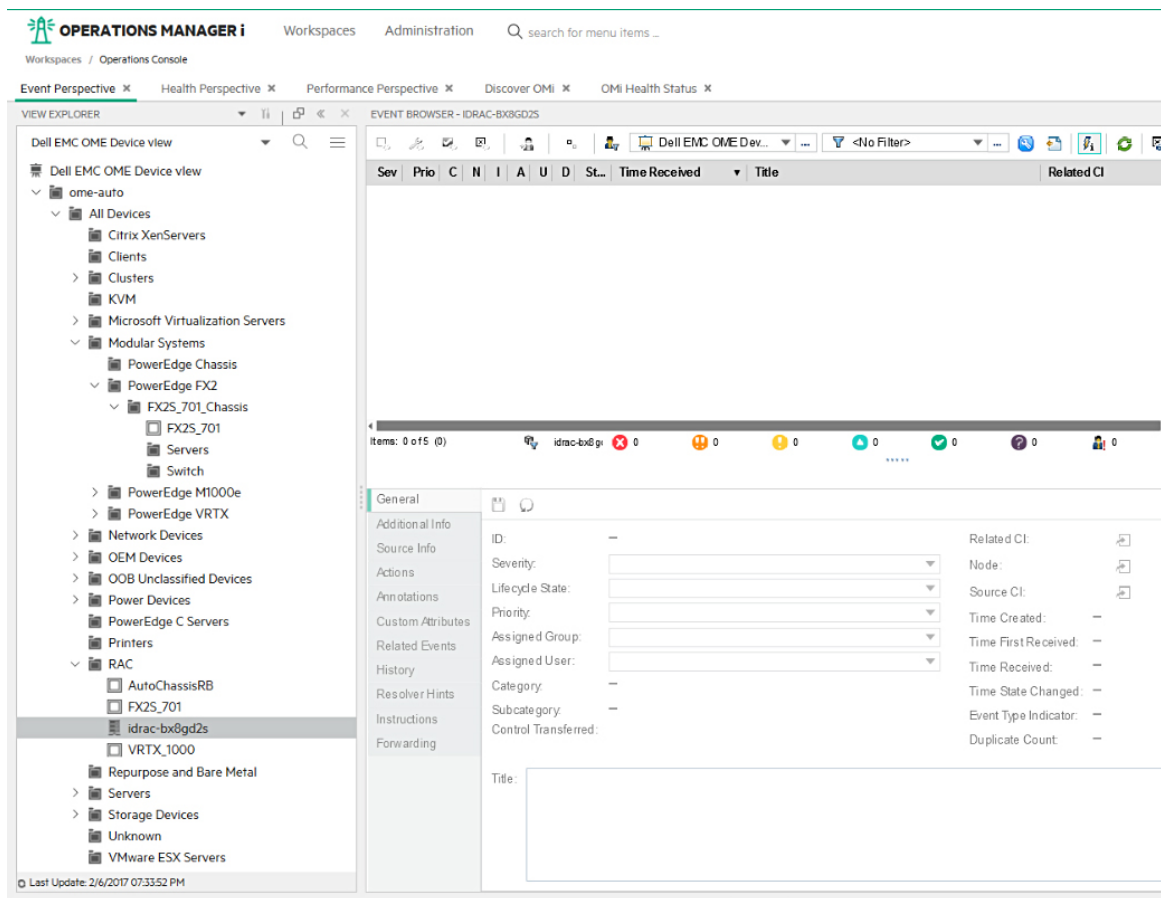


Figure 3. Viewing the Dell EMC devices


Configuring the OME URL tool in HPE Operations Manager i console

By configuring the OpenManage Essentials (OME) URL tool in the Operations Manager i (OMi) enables you to launch the OME web console from OMi for further troubleshooting, configuration, and management activities for the Dell EMC devices.

To configure the OME URL tool, perform the following steps:

1. In the OMi console, click **Administrator** > **Operations Console** > **Tools**.
2. In the left pane, click **ConfigurationItem** > **InfrastructureElement** in **CI Types**.
The **InfrastructureElement - Tools** pane is displayed in the right pane.
3. In the **InfrastructureElement - Tools** pane, click * (New item) icon.
The **Create New Tool** window is displayed.
4. In the **Create New Tool** window:
 - a. Enter desired values in the **Display Name** and **Name** fields.
 - b. Select **Category** as **Default Category**.
 - c. Click **Next**.
 - d. Select **Type** as **URL**.
 - e. Click **Next**.
 - f. In **URL** field, enter OME URL in the format—`https://<OME IP address or OME FQDN>:<OME Port Number>`.

For example, `https://100.100.28.66:2607`.

 **NOTE:** The default OME port number is 2607. If you have provided a different port number while installing OME, then ensure that you provide the same port number while creating OME URL.

- g.** Click **Test** to verify the OME console launch.
The OME console is successfully launched.
- h.** Click **Finish**.

Repairing the Dell EMC OpenManage HPE OMi Operations Connector

If any of the files are missing or corrupted, you can use the **Repair** option to replace the files. You can replace the missing or corrupted files by using any one of the following options:

- OpenManage HPE OMi Operations Connector installer
- Windows Control Panel

Topics:

- [Repairing the program feature using the installer](#)
- [Repairing the program feature using Windows Control Panel](#)

Repairing the program feature using the installer

To repair the corrupted or missing files using the installer, perform the following steps:

1. On the HPE Operations Connector server, navigate to the location where you have extracted the installer.
2. Double-click the **Dell_EMCMOpenManage_HPE_OMi_Operations_Connector_v1.0_Setup.exe** file.
3. In the **Welcome** screen, click **Next**.
4. In the **Program Maintenance** screen, select **Repair**, and then click **Next**.
5. Click **Install** and then click **Finish**.

The **Dell EMC OpenManage HPE OMi Operations Connector Version 1.0** is successfully repaired.

Repairing the program feature using Windows Control Panel

To repair the corrupted or missing files using the Windows Control Panel, perform the following steps:

1. From the **Start** menu, click **Control Panel > Programs > Uninstall a program**.
2. In the **Uninstall or change a program** window, click **Dell EMC OpenManage HPE OMi Operations Connector Version 1.0**, and then click **Repair** to initiate the repair process.

The **Dell EMC OpenManage HPE OMi Operations Connector Version 1.0** is successfully repaired.

Uninstalling the Dell EMC OpenManage HPE OMi Operations Connector

Before you uninstall the Operations Connector for OME, ensure that you deactivate and delete the Operations Connector for OME policies manually from the HPE Operations Connector console:

- Dell EMC OpenManage HPE OMi Operations Connector – Topology Integration policy
- Dell EMC OpenManage HPE OMi Operations Connector – Node Count Information policy
- Dell EMC OpenManage HPE OMi Operations Connector – Event Integration policy

For information about deactivating and deleting policies, see [Deactivating and deleting the policies](#).

Once the activated policies are successfully deactivated and deleted, you can uninstall the Operations Connector for OME by using:


- OpenManage HPE OMi Operations Connector installer
- Windows Control Panel

Topics:

- [Deactivating and deleting the policies](#)
- [Uninstalling the Dell EMC OpenManage HPE OMi Operations Connector using the installer](#)
- [Uninstalling the Dell EMC OpenManage HPE OMi Operations Connector using Windows Control Panel](#)

Deactivating and deleting the policies

To deactivate and delete the policies:

1. Launch the HPE Operations Connector console.
The list of policies are displayed.
2. Right-click on each of the policies and click **Deactivate**.
The policy is successfully deactivated.
3. Click  (Delete) icon.
The deactivated policy is successfully deleted.

Uninstalling the Dell EMC OpenManage HPE OMi Operations Connector using the installer

To remove the Operations Connector for OME using the installer:

1. On the HPE Operations server, navigate to the location where you have extracted the installer.
2. Double-click the **Dell EMC OpenManage HPE OMi Operations Connector v1.0 Setup.exe** file.
3. In the **Welcome** screen, click **Next**
4. In the **Program Maintenance** screen, select **Remove**, and then click **Next**.
5. To uninstall the connector, follow the instructions on the screen.
The **Dell EMC OpenManage HPE OMi Operations Connector Version 1.0** is successfully uninstalled.

Uninstalling the Dell EMC OpenManage HPE OMi Operations Connector using Windows Control Panel

To remove the Operations Connector for OME using the Windows Control Panel:

1. From the **Start** menu, click **Control Panel > Programs > Uninstall a program**.
The **Uninstall a program window** is displayed
2. Click **Dell EMC OpenManage HPE OMi Operations Connector Version 1.0**, and then click **Uninstall**.
The **Programs and Features** window is displayed.
3. Click **Yes**.
The **Dell EMC OpenManage HPE OMi Operations Connector Version 1.0** is successfully uninstalled.

Accessing support content from the Dell EMC support site

Access supporting content related to an array of systems management tools using direct links, going to the Dell EMC support site, or using a search engine.

- Direct links:
 - For Dell EMC Enterprise Systems Management and Dell EMC Remote Enterprise Systems Management—<https://www.dell.com/esmmanuals>
 - For Dell EMC Virtualization Solutions—<https://www.dell.com/SoftwareManuals>
 - For Dell EMC OpenManage—<https://www.dell.com/openmanagemanuals>
 - For iDRAC—<https://www.dell.com/idracmanuals>
 - For Dell EMC OpenManage Connections Enterprise Systems Management—<https://www.dell.com/OMConnectionsEnterpriseSystemsManagement>
 - For Dell EMC Serviceability Tools—<https://www.dell.com/serviceabilitytools>
- Dell EMC support site:
 1. Go to <https://www.dell.com/support>.
 2. Click **Browse all products**.
 3. From the **All products** page, click **Software**, and then click the required link.
 4. Click the required product and then click the required version.

Using search engines, type the name and version of the document in the search box.