


Dell EMC Update Manager 1.1

User 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

Dell EMC Update Manager plugin (UMP) is an integrated solution for OpenManage Enterprise that allows IT Administrators to create and manage repositories for PowerEdge devices that are managed in OpenManage Enterprise which run iDRAC or a Windows operating system. For more information about the supported PowerEdge devices see the OpenManage Enterprise [support matrix](#).

A repository consists of system bundles and their associated Dell Update Packages (DUP). A system bundle is a software collection that can be grouped to arrange the related updates that are applicable to same target platform and having the same format. A Dell EMC Update Package (DUP) is a self-contained executable in a standard package format that updates a specific software element on a Dell server or storage such as the BIOS, a device driver, firmware, and other similar software updates. These bundles and repositories allow the deployment of multiple firmware updates at once. Update Manager supports Dell EMC Update Packages (DUPs) in .EXE format.

Using Update Manager keep your systems up to date with the latest firmware and software by:

- Keeping the repositories up to date for updating the systems.
- Allowing manual or automatic updates of a catalog present in a repository.
- Customizing a repository by importing or deleting update packages.
- Allowing to view the baseline compliance report for a repository which can be used to update firmware of the components in the repository.

Topics:

- [Role-based privileges for Update Manager](#)

Role-based privileges for Update Manager

The following table lists the permissions of the Update Manager user roles.

Table 1. Role-based privileges for Update Manager

Functions	Administrator	Device Manager (DM)	Viewers
Install or uninstall Update Manager	Allowed	Not Allowed	Not Allowed
Enable or disable Update Manager	Allowed	Not Allowed	Not Allowed
Configure proxy	Allowed	Not Allowed	Not Allowed
Configure preferences	Allowed	Not Allowed	Not Allowed
Create repository	Allowed	Allowed	Not allowed
Import update package	Allowed	Allowed (Owned by DM)	Not allowed
Delete repository or bundles or update packages	Allowed	Allowed (Owned by DM)	Not allowed
Repository refresh	Allowed	Allowed (Owned by DM)	Not allowed
View repository dashboard	Allowed	Allowed (Owned by DM)	Allowed
View repositories	Allowed	Allowed (Owned by DM)	Allowed
View or edit baseline compliance report from the Repository page.	Allowed	Allowed (Owned by DM)	Not allowed

Role-based privileges for OpenManage Enterprise

The following table lists the OpenManage Enterprise features required for Update Manager users.

Table 2. Role-based privileges for OpenManage Enterprise

Functions	Administrator	Device Manager	Viewers
Update firmware with baseline compliance report	Allowed	Allowed (Owned by DM)	Not allowed
Update Settings	Allowed	Not allowed	Not allowed
Create alert policy	Allowed	Allowed (Owned by DM)	Not allowed

Install Update Manager

Detect the plugin using **Update Settings** in the **Console and Plugins** page. Next, install the plugin from the **Update Manager** section in the **Consoles and Plugins** page.

Topics:

- [Configure update settings for OpenManage Enterprise](#)
- [Install Update Manager](#)
- [Upgrade to Update Manager 1.1](#)


Configure update settings for OpenManage Enterprise

Prerequisites


- Ensure that OpenManage Enterprise 3.6 is installed.
- Ensure that there is a stable Internet connection if the online source is selected for the updates.
- Download the `OpenManage_Enterprise_UpdateManager_1.1_A00.zip` folder from dell.com if a network share is used as a source for the updates.

Steps

1. Click **Application Settings**, and then **Consoles and Plugins**.
2. Click **Update Settings**.
3. Select **Manual**. This option allows the manual check of updates from a specified source.

 **NOTE:** Automatic update is not supported for detecting Update Manager.

4. Select the source from where the updates are to be applied.
 - **Dell.com**(online)—The appliance checks for the availability of update directly from https://downloads.dell.com/openmanage_enterprise.
 - **Network Share** (offline)—The appliance checks for updates from a specified NFS, HTTP, or HTTPS path that contains the update package. Click **Test Now** to validate connection to the specified network share.
5. Click **Apply**.

 **NOTE:** Update Manager must be installed manually after the plugin is detected.

Install Update Manager

Prerequisites

[Update](#) the consoles and plugins.

About this task

To install Update Manager, perform the following steps:


Steps

1. Launch Dell EMC OpenManage Enterprise.
2. In **Application Settings**, click **Console and Plugins**.

3. In the **Plugins** section, click the **Install** option for **Update Manager**.
The **Install Plugin** window is displayed.
4. Click **Download Plugin**.
The plugin is downloaded, and the status of the download is displayed on a green color band on the right top corner.
5. Click **Install**.
The OpenManage Enterprise appliance restarts, and then **Update Management** is displayed under **Plugins**.

Upgrade to Update Manager 1.1


Prerequisites

- Update Manager 1.0 is present on the OpenManage Enterprise version 3.5 appliance.
- Ensure you have upgraded to OpenManage Enterprise version 3.6 from OpenManage Enterprise version 3.5. Update Manager 1.0 cannot be upgraded to its latest version on OpenManage Enterprise version 3.5.
 **NOTE:** The 1.0 version of the plugin is in a disabled state after OpenManage Enterprise 3.6 is installed.
- Ensure that you clear the browser cache and cookies before starting the upgrade process.

About this task



Perform the following steps to upgrade the Update Manager plugin to its 1.1 version:

Steps

1. From OpenManage Enterprise, go to **Application Settings**, and the Consoles and Plugins.
2. Click **Update Settings**, and select the required fields. For more information, see [Update Settings](#).
 **NOTE:** Automatic update is not supported for detecting Update Manager.
3. Go to the Update Manager section in the Consoles and Plugins page, and click Update Available.
4. Click **Download Update**.
The appliance restarts and the plugin is updated, but is still in a disabled state.
5. Click **Enable** to enable the plugin. For information, see [Enable Update Manager](#).

Results

The Update Manager plugin is updated to its 1.1 version. All the repositories and its associated content from the 1.0 version of the plugin are still available for use.

-  **NOTE:** The 1.1 version of the plugin supports SBAC functionality. Users with device manager privileges will only be able to view or edit repositories that are defined in the **User Scope**, during the creation of the device manager user. For more information about SBAC functionality, see **Dell EMC OpenManage Enterprise Version 3.6 User's Guide**.
-  **NOTE:** Only users with Administrator privileges can see the repositories that are created by Active Directory (AD) and Lightweight Directory Access Protocol (LDAP) users.

Configure Update Manager

Topics:

- [Configure Update Manager preferences](#)
- [Configure or edit a proxy](#)
- [Transfer of ownership of Device Manager entities](#)
- [Manage alerts](#)
- [View Update Manager specific jobs](#)
- [View audit logs](#)

Configure Update Manager preferences

About this task

The version limit of a repository and the storage space used by the plugin can be configured in the **Preferences** page.

Steps

1. From the OpenManage Enterprise home page, select **Plugins**, then **Update Management** and then **Settings**.
2. Click **Preferences**.
The **Preferences** page is displayed.
3. **Versioning** sets the maximum number of versions of a repository that can be stored.
 - **Unlimited**: This option is selected by default, and allows unlimited versions of a single repository to be stored.
 - **Maximum number of version**: Enter the maximum number of versions of a repository that can be stored. If the number of repository versions exceeds this value, the oldest version is automatically deleted.
4. **Storage Space Available** displays the total storage space that is dedicated for the Update Manager plugin. The value that is displayed is 20 percent of the total available storage in OpenManage Enterprise. **Storage Space Used** displays the total storage space used by the plugin.
The **Storage Space Used** is only updated after any repository operation is complete.
5. In **Set Storage Limit** enter any whole number ranging from 10 GB to the value displayed in **Storage Space Available** to set the storage limit for the update manager plugin. Ensure that the value entered in **Set Storage Limit** is not lower than the value in **Storage Space Used**.
It is recommended to not use the complete **Storage Space Available** when configuring this limit.
An alert is generated if the **Storage Space Used** exceeds 80 percent of this configured limit. If the **Storage Space Used** exceeds this limit, a critical alert is generated and any repository operation in progress fails.
The default value for this field is 25 GB.
6. Click **Apply**.
If you want to restore the preferences to the previous values, click **Discard**.

Configure or edit a proxy

About this task

The Update Manager plugin allows the configuration of an OpenManage Enterprise proxy. If a proxy is configured on OpenManage Enterprise, it can be edited here, and then be used by OpenManage Enterprise.

Steps

1. From the OpenManage Enterprise home page, click **Plugins**, then **Update Manager** and then **Settings**.

The **Network** page is displayed.

2. Click **Configure Proxy** or **Edit Proxy**.
3. Select **HTTP Enable Proxy settings** and enter the information in the **Proxy Address** and **Port Number** fields.
4. If the proxy requires authentication, select **Enable Proxy Authentication**, and then enter the credentials of the proxy.
5. Click **Apply**.

Transfer of ownership of Device Manager entities

Prerequisites

Ensure that no Update Manager specific jobs are in progress before the transfer of ownership of device manager entities, or before modifying the user scope of a device manager. If any repository refresh, create, import, or delete operation is in progress during the transfer of ownership, the baselines and jobs associated with the repositories will not be available to the user to which they have been transferred to.

About this task


This topic describes how an administrator can transfer entities such as repositories, baselines, jobs, firmware or configuration templates and baselines, and alert policies that are created by one device manager to another device manager. Administrator can initiate a 'transfer of ownership' when a device manager leaves the organization.

NOTE:

- To perform this task on OpenManage Enterprise, you must have the administrator user privileges.
- 'Transfer of ownership' transfers only the entities and not the device groups (scope) owned by a device manager to another.
- Before a transfer of ownership of entities is initiated, the administrator must first reassign the device groups owned by the former device manager to the device manager who will be taking over.
- If the ownership of the entities is transferred to an Active Directory user group, then the ownership is transferred to all the members of that AD group.

To transfer the ownership of entities such as jobs, baselines, firmware or configuration templates and baselines, and alert policies from one device manager to another do the following:

Steps

1. From OpenManage Enterprise, go to **Application Settings**, and then **Users**.
2. Select the device manager user, and click **Transfer Ownership**.
3. From the **Source User** drop-down list, select the device manager from whom the ownership of entities must be transferred.
 **NOTE:** The Source User will only list the local, active directory, OIDC, or deleted device managers who have entities such as jobs, FW or configuration templates, alerts policies and profiles associated with them.
4. From the **Target User** drop-down list, select the device manager to whom the entities will be transferred to.
5. Click **Finish** and then click **Yes** at the prompt message.

Results

All the owned entities such as repositories, baselines jobs, firmware or configuration templates, and alert policies are transferred from the 'source' device manager to the 'target' device manager.

Manage alerts

Alerts are generated when a repository is refreshed and when the repository storage exceeds the configured limit. Email alerts can also be configured for a repository refresh task.

View alert log

From OpenManage Enterprise, go to **Alerts**, and then click **Alert Logs** to view the generated alerts. By default, only the unacknowledged alerts are displayed.

Information about the alerts is provided in the following columns in the **Alert Logs**:

- **Alert**: Severity of an alert.
- **Acknowledge**: If the alert has been acknowledged a tick mark appears under **ACKNOWLEDGE**. Click between the square bracket under **ACKNOWLEDGE** to acknowledge or unacknowledge an alert.
- **Time**: The time at which the alert was generated.
- **Source name**: The source name is displayed as **N/A** for any alert generated by Update Manager.
 - **NOTE**: The source name for an undiscovered device or an internal alert is IP address of the device that generated the alert. In this case, the alert cannot be filtered based on the source name.
- **Category**: The category indicates the type of alert, for audit, configuration or updates.
- **Message ID**: The ID of the generated alert.
- **Message**: The generated alert.
- The box on the right provides additional information such as the detailed description and recommended action for a selected alert.

Click any of these column headings to sort the alerts.

Filter the alerts by using **Advanced Filters**. The following additional information can be used to filter the alerts:

- **Start Date** or **End Date** of when the alert was generated.
- **Subcategory**: Subcategory of the alert.
 - **NOTE**: To filter the alerts generated for a repository refresh task, select **Updates** in the **Category** drop-down list and then **Refresh Repository** in the **Subcategory** list.
- **User**: Allows to filter the alerts which have been acted upon by users with Administrator privileges.

Create an alert policy

About this task

Perform the following steps to create an alert policy for a repository refresh task:

- **NOTE**: Alert policies created by any DM user in Update Manager version 1.0, are not accessible to the same Device Manager(DM) users after upgrading to Update Manager version 1.1. However, these alert policies are accessible to the Administrators only.

Steps

1. Go to **Alert** and click **Alert Policies**, and then click **Create**.
2. Enter a name and description for the alert policy and click **Next**. The **Enable Policy** check-box is selected by default.
3. Select **Update Manager** and click **Next**.
4. Select **Any Undiscovered Device** and click **Next**.
5. Specify the duration for when the alert policy is applicable by selecting the required values for **Date Range**, and **Days**, and then click **Next**.

- **NOTE**: This step is optional.

- **NOTE**: A time interval cannot be set for alert policies that are created for Update Manager.

6. Select the severity of the alert and click **Next**.
7. Select **Email** and specify the information in the fields and click **Next**.

This option sends an email to the designated recipient. Update manager only supports email notifications.

- **NOTE**: Emails for multiple alerts of the same category, message ID, and content are triggered only once every 2 minutes to avoid repeated or redundant alert messages in the inbox.

8. Review the details of the created alert policy and click **Finish**.

Manage alert policies

After alert policies have been created on the Alert Policies page, they can be edited, enabled, disabled, and deleted. In addition, OpenManage Enterprise provides integrated alert policies that trigger associated actions when the alert is received. These integrated alert policies cannot be edited or deleted, but can be enabled or disabled.

To view the created alert policies go to **Alerts**, and then click **Alert Policies**. To select or clear all the alert policies, select the check box in the header of the table. Select one or multiple check boxes next to the alert policy to perform the following actions:

- **Edit:** Select an alert policy, and then click **Edit** to edit the required information in the [Create Alert Policy](#) dialog box.
- **Enable:** Select one or more alert policies, and then click **Enable**. A check mark appears under the **Enabled** column when an alert policy is enabled. The **Enable** button is deactivated for an alert policy that is already enabled.
- **Disable:** Select one or more alert policies, and then click **Disable**. The alert policy is disabled, and the check mark in the **ENABLED** column is removed. The **Disable** and **Edit** buttons are deactivated for an alert policy that is already disabled. Alert policies can also be disabled by clearing the **Enable** check box during alert policy creation.
- **Delete:** Select one more the alert policies, and then click **Delete**.

View Update Manager specific jobs

This section describes the different job types for Update Manager and how to view them.

View job lists

From OpenManage Enterprise, go to **Monitor** and then click **Jobs** to view the list of existing jobs. Information about the jobs is provided in the following columns:

- **Job Status:** Execution status of the job.
- **State:** If the job is enabled or disabled.
- **Job Name:** Name of the job.
- **Job Type:** The type of job. For more information, see [Job Types](#).
- **Description:** Description of the job.
- **Last Run:** Date and time of when the job was last run.

Click any of these column headings to sort the jobs.

Filter the jobs by using **Advanced Filters**. The following additional information can be used to filter the jobs:

- **First run:** Filters all the jobs run after the specified date.
- **Source:** Select either **All**, **User generated**, or **System generated** jobs.

Job Types

Table 3. Job types in OpenManage Enterprise

Job Type	Description
UMP_Delete_Task	Displays the DUP and catalog delete jobs.
UMP_Download_Task	Displays the DUP and catalog download jobs for a created repository.
UMP_Import_Task	Displays import DUP jobs.
UMP_Update_Task	Displays DUP and catalog downloads for refresh jobs.

View individual job details

To view the details of a specific job, select a job and then click **View Details**. The following information is displayed:

- **Job Details:**

- Provides the name, type, description, and status of the job.
- Click **Restart Job** if the job status is **Stopped**, **Failed**, or **New**.
- **Execution History:**
 - Displays the time and duration of the job, and its percentage completion.
 - Filter the jobs by the status or the name of the target system in the **Advanced Filters** section.
- **Execution Details:** Lists the repositories on which the job was run and the time that is taken for the job.

The right side of the page displays the **Result** of the job and the **Messages** associated with it.

View audit logs

Audit logs list the actions that were performed on the devices that are monitored by OpenManage Enterprise. Log data can be used to help you or the Dell EMC support teams in troubleshooting and analysis. See [Auditing and Logging](#) for more information on the EEMI messages specific to Update Manager 1.1.

To view the audit logs click **Monitor** and then **Audit Logs**. The details of each audit log are displayed in the following columns:

- **Severity:** The severity of the information in the log.
- **Time stamp:** The date and time when the action in the log is performed.
- **User:** The user who performed the actions recorded the log.
- **Message ID:** The ID of the generated log.
- **Source Address:** The IP address of the system which generated the log.
- **Category:** There are two categories of audit logs.
 - **Audit:** Generated when a user logs in or out of the OpenManage Enterprise appliance.
 - **Configuration:** Generated when any action is performed on a target device.
- **Description:** Description of the log.

Click any of the column headings to sort the audit logs.

Filter the audit logs by using **Advanced Filters**. The **Start Time** and **End Time** can be used to filter the audit logs generated during a specified period.

Create and view repositories

Topics:

- Use an SUU ISO file to create a repository
- Create a repository
- View repository details
- View the repository dashboard
- Check for firmware or driver updates for a device

Use an SUU ISO file to create a repository

About this task

This section describes how to use a Server Update Utility(SUU) ISO file to create a repository. If you do not want to use an SUU-based catalog, go to [create a repository](#).

Steps

1. Download the required SUU ISO file from <https://www.dell.com/support/>. For more information, see *DELL EMC OpenManage Server Update Utility User's guide*.
2. Save the file to a network share. The supported network share types are NFS, CIFS, HTTP, and HTTPS.
3. Right-click the ISO image file, and extract it to the same network share using any extraction utility.
4. From the repository folder, copy the folder path of the **Catalog.xml** file.

NOTE:

- The version number of the **Catalog.xml** file is not displayed.
- The filename of the **Catalog.xml** file cannot be changed.

5. In the [Create Repository](#) workflow, set **Base Catalog** to **Network Share** and enter the required information for **Share Address** and **Catalog File Path**.

NOTE: The **Test Connection** option confirms whether OpenManage Enterprise has access to the location.

Create a repository

Prerequisites

NOTE: Repositories or baselines that are created by Active Directory(AD) or Lightweight Directory Access Protocol(LDAP)user in Update Manager version 1.0 are accessible only to the Administrators after upgrading to Update Manager version 1.1.

- The supported PowerEdge devices should be discovered and managed in the OpenManage Enterprise.
- Ensure that there is a stable Internet connection to access downloads.dell.com. If required, configure the [proxy](#) for OpenManage Enterprise.
- To use a Server Update Utility (SUU)-based catalog, download the SUU ISO file to a network share, and extract the ISO file in the same location. For more information, see [Use an SUU ISO file to create a repository](#).

Steps

1. From the OpenManage Enterprise home page click **Plugins**, and select **Update Management** and then **Repository**.
2. Click **Create Repository** .

The **Create Repository** window is displayed.

3. In the **General** section, provide the following details and click **Next**.
 - **Name:** Provide a unique repository name within the 255 character limit and ensure that it has no special characters.
 - **Description:** Provide a description for the repository and ensure that it does not exceed the 1024 character limit.
 - **Baseline Name:** The baseline name is auto-populated as the name provided for the repository. It is recommended to change the baseline name as required.
 - **Baseline Description:** The baseline description is auto-populated as the description provided to the repository. You can change the baseline description as required. Ensure that the description does not exceed the 500 character limit.
 - **Base catalog:** Select either **Enterprise Server Catalog**, **Index Catalog** or **Network share** from the drop-down list.
 - **Enterprise Server Catalog:** Contains all the latest BIOS, drivers, and other firmware of the Dell Update Packages for Dell EMC PowerEdge servers and chassis. The latest version of the enterprise server catalog is selected by default.
 - **Index Catalog:** You can access solution-specific catalogs such as ESXi and MX Validated Stack, and also older versions of all Enterprise server catalogs. Select the type of catalog from the **Catalog Group** drop-down list. The latest version of the catalog is selected by default. The **Catalog** drop-down list shows the older versions of the selected catalog group. Select the version of the catalog required for the repository.
 - **Network Share:** This option allows you to select any custom Enterprise catalog from any offline network path. Select a catalog from a local network share using the drop-down list **Share Type**. The supported share types are NFS, CIFS, HTTP, and HTTPS.
 - ⓘ **NOTE:** Catalogs with updatable components that are created using Dell EMC Repository Manager or Dell EMC Server update utility (SUU) based catalogs can also be used.
 - ⓘ **NOTE:** The supported formats for **Share Address** are IPv4, IPv6, and hostname. The supported format for **Catalog File Path** is `/directory/subdirectory/file` or `directory/subdirectory/file`. A schema validation is performed by selecting **Test Now**. Doing so ensures that the file is well formed and that there is no unwanted or corrupted data. Enter the values in the authentication options and select **Test Now** to test the network share connection.
 - ⓘ **NOTE:** The appliance may become unresponsive if the selected catalog fails to download. Refresh the browser to reload OpenManage Enterprise again.
 - **Update catalog**-You can update the selected catalog manually or automatically.
 - ⓘ **NOTE:** Set weekly or daily automatic updates using the **Update Frequency** drop-down list. Select the day, and time in the **HH:MM** field to specify the time for the automatic update.
 - ⓘ **NOTE:** Ensure that automatic updates are set to begin 24 hours after the repository is first created.
4. Select the devices or groups you require in the repository in the **Devices/Groups** section, and then click **Next**. Users with device manager privileges can only view or select the groups that are selected by the administrator in the **User Scope** when creating that user. A lock icon is displayed next to the group name, for groups which are not accessible to the user with device manager privileges.
 - **All Devices**-Selects all the devices in the selected catalog.
 - **Device**-Select the devices from a list of devices in the selected catalog. Click **All selected devices** to view the devices you have selected, and click **Ok**.
 - **Groups**- Select a group or groups of devices available in the selected catalog and click **Ok**.The PowerEdge devices and the groups in which they are arranged is displayed on the left side of the **Select Device** and **Select Group** window. To refine your search, use the **Advanced Filters**.
5. The **Summary** section provides the summary of previously entered information. Click **Finish** to create the repository.

Results

The created repository appears in the **Repository** and **Overview** page. The **UMP_download_Task** job is triggered, which downloads the catalog and its associated DUPs of the repository. The downloaded catalog and DUPs are displayed in the **Messages** section of the **Job Details** page. The repository is unavailable until this download job is completed. The baseline appears in the **Firmware/Driver Compliance** page under **Configuration**.

The catalog version is displayed as **Network** in the **Overview** and the **Repository** page if the repository is created using a network share. The catalog versions are not displayed if the repository is created using a SUU catalog.

View repository details

The repositories are listed in the **Repository** page under **Update Management**. Users with administrator or viewer privileges can view all the repositories. Users with device manager privileges can only view the repositories that are created by the user.

NOTE: Repositories or baselines that are created by Active Directory(AD) or Lightweight Directory Access Protocol(LDAP) user in Update Manager version 1.0 are accessible only to the Administrators after upgrading to Update Manager version 1.1. For more information see [Transfer of Ownership Device Manager entities](#).

Expand the repository to view the device bundles and components present in the repository. Details of the repository are displayed in the following columns :

- **Name:** Name of the repository
- **Version number:** Repository version number.
- **Size:** Total size of the DUPs in the repository.
 - NOTE:**
 - The combined size of all the repositories may appear to exceed the total available storage. However, only one copy of a DUP is stored even if it is present in multiple repositories.
 - If an ESXi catalog is selected when creating the repository, the repository size is displayed as 0.
- **Date modified:** Date and time at which the repository was modified.
- **Label:** Displays of importance of updates for each component. Expand the device bundles to view the components in each bundle.
 - **Critical-** The components must be updated immediately.
 - NOTE:** OpenManage Enterprise categorizes **Urgent** DUPs as **Critical**.
 - **Optional-** Component update is optional.
 - **Recommended-** Component update is recommended.
- **Description:** The description provided to the created repository.

Click **Name**, **Version**, or **Date Modified** to arrange the repositories according to the column headings.

Additional information for a selected repository is displayed on the right side of the page:

- **View Report** launches the compliance report of the components in the devices and bundles of the repository with its associated baseline in the **Firmware/Driver compliance** page. For more information, see [check for firmware or driver updates for a device](#)..
- **Edit:** Allows you to change the name, description, baseline name and baseline description of the repository. It is recommended to not edit the name of the baselines created using the update manager plugin from the **Firmware/Driver compliance** page.
- A doughnut chart summarizes the level of importance of the component updates.
- The number of components in the repository.
- The number of devices selected when creating the repository. Click the information icon next to **Devices** to view the name, IP address, and model of all the devices. Any devices that are added or removed after repository creation are not reflected in the **Devices** field.
- **Catalog Versions:** Version of the catalog from which the repository was created.
- **Available Catalog Version:** The latest available version of the catalog.
- All the versions of the repository.
- **Owner:** The user that created the repository.
- **Last Modified By:** The last user that made changes in the repository.

You can filter the repositories according to any of the following components using the **Advanced Filters** section:

- **Name:** Enter the name of device or component.
- **Criticality:** Select the importance of the component update from the drop-down menu.
 - NOTE:** OpenManage Enterprise categorizes **Urgent** DUPs as **Critical**.
- **Category:** Select the category of the component.
- **Type:** Select the type of update.

Expand the repositories once the filters are applied to view the filtered components. If the device bundle in any of the repositories does not satisfy the filtered criteria, a red bar is displayed below it.

The **Repository** page also supports the following functions:

- [Delete one or multiple repositories and repository versions.](#)
- [Delete one or multiple repository bundles and update packages.](#)
- [Import an update package .](#)
- [Update the catalog associated with the repository.](#)

View the repository dashboard

The Update Management **Overview** page contains the dashboard which displays all the existing repositories. Users with administrator or viewer privileges can view all the repositories. Users with device manager privileges can only view the repositories that are created by the user.

The following details of the repositories are displayed:

- The repository name.
- **Current version:** Displays the current repository version number. Click the version number to view the list of versions for a specific repository.
- The number of devices in the repository.
- The version of the catalog present in the repository.
- The number of components in the repository and the level of importance of their updates.

Click **View Repository** to view detailed information about the selected repository in the **Repository** page.


Check for firmware or driver updates for a device

About this task







This section describes how to check the compliance of each device in a baseline with its associated catalog. To check the compliance of the baseline created by Update Manager, perform the steps that are given below.

Steps

Select the repository and click **View Report**.

 **NOTE:** The baseline compliance report is only generated for the latest version of the repository.

You are redirected to the **Firmware/Driver Compliance** page where the baseline compliance report is displayed with the following information:

- **COMPLIANCE LEVEL:** Indicates the compliance level of the firmware of a device with the associated baseline catalog.
 - **OK**  —The firmware or driver version of a component in the device is the same as its associated baseline catalog.
 - **Critical**  —The firmware or driver version of a component in the device is not compliant with the baseline catalog, and so it must be updated immediately.
 - **Warning**  —The firmware or driver version of a component in the device is not compliant with the baseline, and so it must be upgraded.
 - **Downgrade**  —The firmware or driver version of a component in the device is newer than the baseline version.
- **TYPE:** Type of device for which the compliance report is generated.
- **DEVICE NAME/COMPONENTS:** By default, the service tag of the device is displayed. Click the device name to view the list of components and their compliance with the latest catalog.
 -  **NOTE:** For all the devices (except the MX7000 chassis) which are compliant with their associate firmware baseline, the device name is not displayed.
- **SERVICE TAG:** Click the service tag number to view complete information about the device on the **<device name>** page.
- **REBOOT REQ:** Indicates if the device must be restarted after updating the firmware.
- **Info**  : The icon corresponding to every device component is linked to the support site page from where the firmware/driver can be updated.
- **CURRENT VERSION:** Indicates the current firmware version of the device.
- **BASELINE VERSION:** Indicates the corresponding firmware and driver version of the device available in the associated catalog.

To search for a device or component, select or enter the information in the **Advanced Filters** section.

Results

This baseline compliance report can be used to update the firmware and drivers of devices and components that are associated with the baseline. For more information, see *Dell EMC OpenManage Enterprise Version 3.6 User's Guide*.

NOTE: The view report option is disabled, or might produce an inaccurate baseline compliance report in the following scenarios:

- If the baselines created using the update manager plugin are modified or deleted.
- If a baseline has the same name as another repository containing another catalog.

NOTE: If the baselines are edited in the **Firmware/Driver Compliance** page, then the changes are not reflected in the Update Manager plugin. The repository functions will not work for the repositories that contain the edited baseline.

Update firmware and drivers using a baseline compliance report

Prerequisites

- If HTTP and HTTPS shares were configured using the proxy settings, ensure that these local URLs are in the proxy exception list before initiating any update tasks.
- Only one update task can be initiated on the target machine at a given time.

About this task

A baseline compliance report can be used to update the firmware or drivers of a device or component associated with the baseline.

Steps

1. Click **View Report** for the baseline containing the device to be updated.
2. Check the compliance level of one or more devices or components, and then select the corresponding check boxes. If required, use **Advanced Filters** to specify the device or component. To select all of the check boxes, select the check box in the column heading.
3. Click **Make Compliant**.
4. Under **Schedule Update** select either:
 - **Update Now:** To apply the firmware or driver updates immediately.
 - **Schedule Later:** To specify a date and time when the firmware or driver version must be updated. This mode is recommended if you do not want to disturb your current tasks.
5. Under **Server Options** select either:
 - **Reboot server immediately:** Reboots the server after firmware or driver update.
 - **Stage for next server reboot:** Updates the firmware or driver when the server reboots next time.

NOTE: If the firmware/driver update jobs are created using this option, then the inventory and baseline check must be performed manually after the package is installed in the remote device.
6. Select **Reset iDRAC** to initiate a reboot of iDRAC before the update job is initiated.

NOTE: This function is not supported for updating the drivers.
7. Select **Clear Job Queue** to delete all the jobs on the target device, before the update job is initiated.
8. Click **Update**.

Manage repositories


The following repository functions are supported by Update Manager:

- Import update packages to repositories or device bundles.
- Delete repositories
- Delete device bundles and update packages.
- Refresh a repository.

No other operations are allowed when the jobs for any of these functions are in progress.

Repository versioning- Any of the above actions, except for repository deletion, results in the creation of a new version of the repository with the version number incremented by 0.01. Refresh the browser or go to another page if the repository version is not updated. The number of versions any repository can have depends on the limit configured in [update management preferences](#).

Ensure that no Update Manager specific jobs are in progress before the transfer of ownership of device manager entities, or before modifying the user scope of a device manager.

 **NOTE:** The change in repository version number is not reflected in the Audit logs. To see the latest version of the repository go the **Overview** or **Repository** page.

Topics:

- [Import an update package](#)
- [Delete a repository](#)
- [Delete device bundles or update packages](#)
- [Refresh a repository](#)

Import an update package

About this task

An update package can be imported only from a local path to one or multiple repositories or device bundles. Only update packages with the file format .EXE are supported.

Steps

1. From OpenManage Enterprise go to **Update Management**, and then click **Repository**.
2. Select the repository or bundle to which the update package is to be imported and click **Import**.
 - To select all the repositories, select the check box to the left of **Name**.
 - To select one or more repositories, select the check box next to a repository.
 - To select one or more bundles, expand the repository and select the check box next to the device.
3. Click **Browse** and select the update package from the local system.

If an update package is not applicable to a device or repository, then an error message is displayed.

NOTE:

- The import operation will not be successful if the update package does not have a valid signature.
- It is recommended to not change the file name of the DUP to be imported.

4. Click **Finish** once the import job is completed.

Results

Once the import job is successfully completed, the baseline and catalog of the repository are also updated. The repository is updated and its version is incremented by 0.01.

If the same type of update package is present in the repository, it is replaced with the imported update package. If the update package is exactly the same as another update package in the repository, then no changes are made to the repository.

Delete a repository

About this task

Perform the following steps to delete a repository.

Steps

1. From **Plugins**, go to **Update Management** and then click **Repository**.
2. Select one or multiple repositories and click **Delete**.
3. Select the specific versions of the repository to be deleted or select **All Versions**.
4. Click **Delete**.

Results

Once the delete job is successful, the repository is deleted and is no longer displayed in the **Overview** or **Repository** page. The baselines and catalogs that are created using the repository are also deleted from the **Firmware/Driver Compliance** page.

Delete device bundles or update packages

About this task

Perform the following tasks to delete device bundles or update packages from a repository.

Steps

1. From **Plugins** go to **Update Management** and then click **Repository**.
2. Select the device bundles or update packages.
 - Select one or multiple device bundles by expanding the repository and selecting the check box next to the bundle.
 - Select one or multiple update packages by expanding the device bundle and selecting the check box next to the component.
3. Click **Delete**.
4. Select the check box in the **Delete** window to delete the update packages from all the existing bundles.
5. Click **Delete**.

Results

The device bundles or update packages are deleted from the repository. The repository is updated and its version is incremented by 0.01.

Refresh a repository

Prerequisites

Ensure that the repository has sufficient storage space. See delete [repository](#) or [component](#) to manage repository storage space.

About this task

A repository refresh task replaces the catalog present in the repository with the latest available version. For a user with device manager privileges, the refresh task will also update the devices or groups present in the repository, based on the user scope assigned to the user.

 **NOTE:** Only the latest version of a repository can be refreshed.

A repository must be refreshed in any one of the following scenarios:

- When changes are made to the catalog present in the repository.
- When new devices are added to or removed from groups assigned to a device manager user.
- When the scope is changed for a user with device manager privileges.
- When devices are added or removed from the **Devices** section in OpenManage Enterprise.

You can refresh the catalog automatically or manually. Select the automatic refresh schedule when a repository is [created](#). When the automatic refresh task is complete, the **Last Run Date/Time** and **Next Run Date/Time** display on the jobs page for the selected refresh job.

To manually refresh a repository, perform the following steps.

Steps

1. From **Plugins** go to **Update Management** and then click **Repository**.
2. Select the check box next to the repository.
3. Go to the right side of the page and click on the icon next to **Last Updated**.

The date and time of the last catalog update is displayed if the catalog was previously updated.


Results


The catalog that is associated with the repository is updated to the latest available version at the default repository location in OpenManage Enterprise. The catalog version is also updated in the **Catalog Management** page under **Firmware/Driver** compliance. The latest baseline and update packages are used to generate a baseline compliance report. The repository is updated and its version increments by 0.01.


If any device bundles or update packages were previously deleted, the repository refresh job updates the repository along with the deleted bundles and update packages. The new version of the generated catalog contains the details of the deleted components, and the same catalog is used to generate the compliance report.

If you add or remove devices from a group, or components from a device in OpenManage Enterprise before the refresh operation, the changes are reflected in the repository after it is refreshed.

The repository does not refresh successfully if there is insufficient storage space, and the respective alert and audit logs are generated.

 **NOTE:** For users with device manager privileges, if any groups present in the repository are removed from the **User Scope** by the administrator, they will not reflect in the repository after it is refreshed.

 **NOTE:** Scope changes made to a device manager user is only reflected on the latest version of the repository.

 **NOTE:** If all of the device groups are removed from the assigned scope for a device manager user, the repository refresh job will fail.

Maintain update manager

Topics:

- [Disable Update Manager](#)
- [Enable Update Manager](#)
- [Uninstall Update Manager](#)

Disable Update Manager

Steps

1. Click **Application Settings** and then **Consoles and Plugins**.
2. Go to the **Update Manager** section and click **Disable**.
3. Click **Disable Plugin**.
4. Select the check box in the **Confirmation** window and then click **Confirm Disable**.

Results

The appliance restarts and no longer contains **Update Management** under the **Plugins** section. The baselines created by Update Manager are available for use even when the plugin is disabled.

Enable Update Manager

About this task

Once the plugin is disabled, it can be enabled by performing the following steps:

Steps

1. Click **Application Settings** and then **Consoles and Plugins**.
2. Go to the **Update Manager** section and click **Enable**.
3. Click **Enable Plugin**.
4. Select the check box in the **Confirmation** window and then click **Confirm Enable**.

Results

The appliance restarts, and **Update Management** now appears under the **Plugins** section.

Uninstall Update Manager

Steps

1. Click **Application Settings** and then **Consoles and Plugins**.
2. Go to the **Update Manager** section and click **Uninstall**.
3. Click **Uninstall Plugin**.
4. Select the check box in the **Confirmation** window and click **Confirm Uninstall**.

Results

The appliance restarts and **Update Management** no longer appears in the **Plugins** section. Once the plugin is uninstalled, all the catalogs and baselines created by the plugin are cleared and are no longer available for use.

Auditing and logging

Update Manager lists all the actions that are performed on the monitored devices in audit logs. Use the OpenManage Enterprise console to generate the audit logs with all the relevant information. You can export the audit log files to a CSV file format. The following table lists all the EEMI message details that are used in Update Manager.

Table 4. EEMI messages in Update Manager

Message ID	Message Description
CUMP0001	The repository <repoName> is refreshed successfully.
CUMP0002	Unable to refresh the repository <repoName>.
CUMP0003	Repository has exceeded the configured storage limit.
CUMP0004	Unable to create the repository <repoName>.
CUMP0005	Unable to delete the repository <repoName>.
CUMP0008	Unable to import the update package into the repository <repoName>.
CUMP0011	The repository <repoName> is created successfully.
CUMP0012	The repository <repoName> is updated successfully.
CUMP0013	The repository <repoName> is deleted successfully.
CUMP0014	The configuration data is successfully updated.
CUMP0015	An update package is available for the selected catalog.
CUMP0016	An update package is unavailable for the selected catalog.
CUMP0017	The catalog <catalogName> is updated successfully.
CUMP0018	Unable to update the catalog <catalogName>.
CUMP0019	The storage space has reached or exceeded 80% of the configured value.
CUMP0020	Unable to create the repository version because the maximum number of versions are already created.
CUMP0021	The repository version <version number> of repository <repository name> is deleted successfully.
CUMP0022	The repository bundle(s) or component(s) of repository <repository name> is deleted successfully.
CUMP0023	The repository version <version number> of repository <repository name> is created successfully after performing the <task name> operation.
CUMP0024	The repository <repository name> is edited successfully.