

DELL 1.4 OpenManage Enterprise Update Manager User Guide

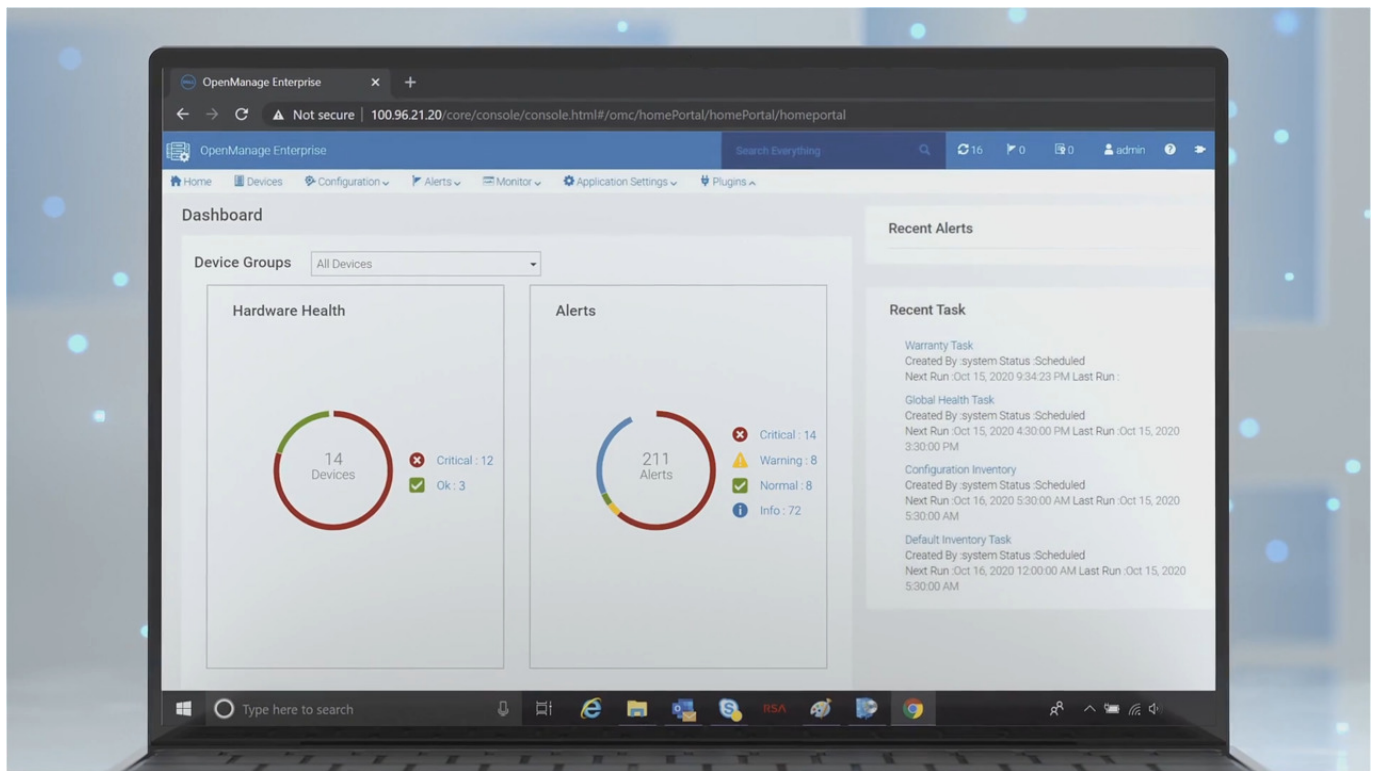
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DELL 1.4 OpenManage Enterprise Update Manager



Dell OpenManage Enterprise Update Manager 1.4 is an integrated solution for Dell OpenManage Enterprise(OME) that allows IT administrators to create and manage repositories for PowerEdge devices that are managed in OpenManage Enterprise, which run iDRAC or Windows operating system.

New features

The following table shows the new features and enhancements that are introduced with OpenManage Enterprise Update Manager 1.4.

Functional area	Feature description	Summary of benefits
OpenManage Enterprise Support	Support for OpenManage Update Manager plug-in v1.4 is supported with OpenManage Enterprise v3.10	Improved compatibility with OpenManage Enterprise
Backup and Restore, VM to VM migration	Update Manager is aligned with OpenManage Enterprise for Backup and Restore, and VM to VM migration feature	Improved backup and restore functionality
IOM support	Repositories and baselines Update Manager plug-in supports the IOM devices for repositories and baselines	Improved repository management and baseline compliance reporting

Role-based privileges for Update Manager

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

User role	Permissions
Administrator	Full access to all features and functionality
Operator	Access to all features and functionality, except for repository and baseline management
Read-only	View-only access to all features and functionality, except for repository and baseline management

Product Usage Instructions

1. Ensure that the repositories are up-to-date.
2. Enable manual or automatic updates of the catalog present in the repositories.
3. Customize a repository by importing or deleting update packages.
4. Enable the option to view the baseline compliance report of the repository that is used to update the firmware of the components in the repository.
5. To update systems with the latest firmware and software using Update Manager, follow steps 1-4 above and then:
 1. Select the systems that you want to update from the list of managed devices in OpenManage Enterprise.
 2. Select the repository that contains the updates you want to apply.
 3. Select the components that you want to update.
 4. Review the update status and confirm the update.

For more information about the supported PowerEdge devices, see the OpenManage Enterprise support matrix. For more information about the user documentation, see the OpenManage Enterprise Update Manager product support page at <https://www.dell.com/support>.

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 Update Manager plug-in is an integrated solution for Dell OpenManage Enterprise(OME) that allows IT administrators to create and manage repositories for PowerEdge devices that are managed in OpenManage Enterprise, which run iDRAC or 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 DUP is a self-contained executable file in a standard package format that updates a specific software element on 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 simultaneously. The Update Manager plug-in(UMP) supports DUPs in .exe format.

To update the systems with the latest firmware and software using Update Manager, do the following:

- Ensure that the repositories are up-to-date.
- Enable manual or automatic updates of the catalog present in the repositories.
- Customize a repository by importing or deleting update packages.
- Enable the option to view the baseline compliance report of the repository that is used to update the firmware of the components in the repository.

Topics:

- New features
- Role-based privileges for Update Manager

New features

This section describes the features and enhancements that are introduced with OpenManage Enterprise Update Manager 1.4. Table 1. New features in OpenManage Enterprise Update Manager 1.4

Functional area	Feature description	Summary of benefits
OpenManage Enterprise Support	Support for OpenManage Enterprise v3.10	Update Manager plug-in v1.4 is supported with OpenManage Enterprise v3.10
Backup and Restore, VM to VM migration	Update Manager is aligned with OpenManage Enterprise for Backup and Restore, and VM to VM migration feature	Update Manager plug-in supports for Backup, restore, and VM to VM migration feature
IOM support	Repositories and baselines with IOM devices support	Update Manager plug-in supports the IOM devices for repositories and baselines

For more information about the user documentation, see the OpenManage Enterprise Update Manager product support page <https://www.dell.com/support>.

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Role-based privileges for Update Manager

The following table lists the permissions of the user roles 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 3. 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

Update the Dell OpenManage Enterprise(OME) settings to detect Update Manager plug-in in the OpenManage Enterprise console. You can download and install the Update Manager. Enables you to create and maintain repositories of components along with their respective updates.

Topics:

- Update OpenManage Enterprise settings for Update Manager
- Install Update Manager
- Upgrade Update Manager

Update OpenManage Enterprise settings for Update

Manager

This section describes the updates that are performed on Dell OpenManage Enterprise . You can update or install the supported plugins in Dell OpenManage Enterprise.

Prerequisites

- Dell OpenManage Enterprise 3.10 is installed.
- Internet connection is stable if the online source is selected for the updates.
- Download the OpenManage_Enterprise_UpdateManager_1.4_A00.zip file from dell.com if a network share is used as a source for the updates.

About this task

To configure the updates and detect the Update Manager plug-in, do the following:

Steps

1. Log in to the Dell OpenManage Enterprise console.
2. Go to Application Settings > Consoles and Plugins.
3. Click Update Settings.
4. Select Manual. This option allows the manual check of updates from a specified source.
NOTE: Automatic update is not supported for detecting Update Manager.
5. Select the source from where the updates must be applied:
 1. Dell.com(online)—Checks for the availability of updates directly from https://downloads.dell.com/openmanage_enterprise.
 2. Network Share (offline)—Checks for updates from a specified NFS, HTTP, or HTTPS path that contains the update package.
6. Click Test Now to validate connection to the specified network share.
7. Click Apply.
Update Manager plug-in is detected.
NOTE: Update Manager plug-in must be installed manually once detected.

Install Update Manager

Install the Update Manager plug-in in the Dell OpenManage Enterprise console to create and maintain the repositories of components with their respective updates.

Prerequisites

Ensure you update OpenManage Enterprise settings for Update Manager through consoles and plugins tab.

About this task

To install Update Manager, perform the following steps:

Steps

1. In OpenManage Enterprise, click Application Settings > Console and plugins.

The Console and Plugins screen is displayed.

2. In the Plugins section, click Install for Update Manager.

The Install and update multiple plugins wizard is displayed.

3. From the Plugins available for install list, select the Update Manager, and then click Next.
4. View the progress of the plugin you selected to install under the Download section, and then click Next on completion.

NOTE: The download will continue if you leave the wizard.

5. A consent form is displayed under Review license agreement section to inform you about the End User License Agreement and any other license agreements required for the installation of the plugin. Click Accept and then click Next to continue.

NOTE: All agreements must be read and accepted before continuing.

6. To confirm the installation, select I agree that I have captured a backup of the OpenManage Enterprise appliance prior to performing a plugin action option, and then click Finish.

The status of installation operation is displayed. After the successful installation of the plugin, the status that appears on the top of the plugin section changes from Available or Downloaded to Installed.

Next steps

Log in to the Dell OpenManage Enterprise again and the Update Management is displayed under new navigation Plugins.

Upgrade Update Manager

Upgrade the Update Manager plug-in to the latest available version in the Dell OpenManage Enterprise console.

Prerequisites

- Ensure that the Update Settings are configured as described in Configure OpenManage Enterprise settings for Update Manager

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

- Ensure that the Update Manager version, you want to upgrade, is compatible with the OpenManage Enterprise version as mentioned in the following table:

Table 4. Compatibility matrix of Update Manager and OpenManage Enterprise

Update Manager Version	OpenManage Enterprise Version
Update Manager Version 1.0	OpenManage Enterprise Version 3.5
Update Manager Version 1.1	<ul style="list-style-type: none">○ OpenManage Enterprise Version 3.6○ OpenManage Enterprise Version 3.7
Update Manager Version 1.2	OpenManage Enterprise Version 3.8

Update Manager Version	OpenManage Enterprise Version
Update Manager Version 1.3	OpenManage Enterprise Version 3.9
Update Manager Version 1.4	OpenManage Enterprise Version 3.10

Clear the browser cache and cookies before starting the upgrade process.

About this task

Perform the following steps to update the Update Manager plug-in from the previous version to the latest version:

Steps

1. In the Plugin section, click Update Available for the Update Management.
The Install and update multiple plugins wizard is displayed.
2. Select Update Manager in the Select Plugin section, and click Next.
Note the update progress in the Download section, and click Next on completion.
NOTE: The download continues if you leave the wizard.
3. To confirm the upgrade, select I agree that I have captured a backup of the OpenManage Enterprise appliance prior to performing a plugin action option, and then click Finish. The appliance restarts after the plug-in is updated.

Next steps

- **NOTE:** All the repositories and its associated content created using Update Manager version 1.0 are still available for use.
- **NOTE:** When you upgrade to latest version of Update Manager/OpenManage Enterprise, from Update Manager v1.2 or below/OpenManage Enterprise v3.8 or below, the repository must be refreshed to use the latest catalog if the created repositories have PowerEdge servers supported with Windows server 2019 or above. Modifications are done in OpenManage Enterprise v3.9 onwards, to accommodate the new Microsoft build number system used in Windows Server 2019 or above.
- **NOTE:** Update Manager version 1.1 and above supports SBAC functionality. Users with device manager privileges can 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 DellOpenManage Enterprise Version 3.9 User's Guide.
- **NOTE:** Only users with administrator privileges can see the repositories created by Active Directory (AD) and Lightweight Directory Access Protocol (LDAP) users.

Configure Update Manager

This chapter describes that how you configure the Update Manager, or edit a proxy. You can manage the alerts, create alert policies and then manage the alert policies. You can view the running jobs, job types, and its details.

Topics:

- Configure Update Manager settings
- Transfer of ownership of Device Manager entities
- Manage alerts
- View Update Manager specific jobs
- View audit logs

Configure Update Manager settings

About this task

To edit or view the Settings of Update Manager plug-in, perform the following steps.

Steps

1. From the OpenManage Enterprise home page, select Plugins > Update Management > Settings.
2. In the Versioning option, select Unlimited, or Maximum number of version to set the maximum number of versions of a repository that can be stored.
 1. Unlimited: This default option enables unlimited versions of a single repository to be stored.
 2. 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.
3. The Storage option displays the following:
 1. Storage Space Available: displays the total storage space that is dedicated for the Update Manager plug-in. The value that is displayed is 20 percent of the total available storage in OpenManage Enterprise.
 2. Storage Space Used: the total storage space used by the plug-in.
NOTE: The Storage Space Used is only updated after any repository operation is complete.
 3. 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 plug-in. 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.
4. In Backup and Restore option, select the appropriate option for backup:
 1. Metadata Backup: takes backup for only metadata from file store. This is the default option selected.
 2. File Store Backup: takes backup of the complete file store including metadata and DUPs.
NOTE: File Store Backup takes additional time based on the number of DUP packages in the file store.
Ensure that the backup location has the necessary space.
Click Backup/Restore option to start the backup and restore of the OpenManage Enterprise appliance.
The Backup/Restore page of OpenManage Enterprise is displayed. For more information to run Backup and Restore, see OpenManage Enterprise documentation on Dell support site.
NOTE: The Update Manager running jobs are terminated if you run backup operation in OpenManage Enterprise, irrespective of the selected Running tasks options, Terminate Running Tasks then Run Backup or Complete Running Tasks before Running Backup.
5. In the Network option, click Configure Proxy to set Proxy settings.
Set Proxy Settings page is displayed.
 1. Select HTTP Enable Proxy settings and enter the information in the Proxy Address and Port Number fields.
 2. If the proxy requires authentication, select Enable Proxy Authentication, and then enter the credentials of the proxy.
 3. Select the Ignore Certificate Validation check box if the configured proxy intercepts SSL traffic and does

not use a trusted third-party certificate. Using this option will ignore the built-in certificate checks used for the warranty and catalog synchronization.

4. In the Proxy Exclusion list box, enter the IPv4 and/or IPv6 addresses or domain names of the device(s) that can bypass the proxy server and directly access the appliance.
5. Click Apply.

The Edit Proxy option is enabled, to edit the proxy settings.

6. Click Apply.

If you want to restore the previous values, click Discard.

Transfer of ownership of Device Manager entities

Administrators can transfer entities such as repositories, baselines, jobs, firmware and configuration templates and baselines, and alert policies that are created by one device manager to another device manager. Administrators can initiate a transfer of ownership when a device manager leaves the organization.

Prerequisites

- 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 .
- Ensure you have the administrator user privileges to perform this task on OpenManage Enterprise.

About this task

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.

NOTE:

- '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

- From OpenManage Enterprise, go to Application Settings > Users.
- Select the device manager user, and click Transfer Ownership.
- From the Source User drop-down list, select the device manager from where the ownership of entities must be transferred.

NOTE: The Source User lists only the local, active directory, OIDC, or deleted device managers with entities such as jobs, FW or configuration templates, alerts policies, and profiles associated with them.

- From the Target User drop-down list, select the device manager where the entities are transferred to.
- Click Finish and 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 latest version. 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

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.

Job Type	Description
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 support teams in troubleshooting and analysis. See Auditing and Logging for more information on the EEMI messages specific to Update Manager 1.1 and above.

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 DellOpenManage 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.
 1. The version number of the Catalog.xml file is not displayed.
 2. 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

- Ensure that you use either an online catalog or offline catalog generated from DRM v3.3.2 or above or SUU v 21.09.00 or above as latest base catalog, while creating a repository of device drivers from Dell devices, managed in-band with supported Operating System Windows server 2019 or above.
- The supported PowerEdge devices are discovered and managed in the OpenManage Enterprise.
- Ensure to perform the driver inventory before creating repository for driver updates.
- Internet connection is stable to access downloads.dell.com. If required, configure the proxy for OpenManage Enterprise.
- To use a 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.

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 and later.

Steps

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

The Create Repository window is displayed.

3. In the General section, provide the following details and click Next.
 1. Name: Provide a unique repository name within the 255 character limit and ensure that it has no special characters.
 2. Description: Provide a description for the repository and ensure that it does not exceed the 1024 character limit.
 3. Baseline Name: The baseline name is auto-populated with the name that is provided for the repository. It is recommended to change the baseline name as required.

NOTE: Ensure to provide a unique name for the baselines and wait for the running job to complete before creating new baselines.
 4. Baseline Description: The baseline description is auto-populated with the description that is provided for the repository. You can change the baseline description as required. Ensure that the description does not exceed the 500 character limit.
 5. Base catalog: Select either Enterprise Server Catalog, Index Catalog or Network share from the drop-down list.
 1. Enterprise Server Catalog: Contains all the latest BIOS, drivers, and other firmware of the Dell Update Packages for Dell PowerEdge servers and chassis. The latest version of the enterprise server catalog is selected by default.
 2. 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.
 3. 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 from the Share Type list. The supported

share types are NFS, CIFS, HTTP, and HTTPS.

NOTE:

1. If the Dell update packages (DUPs) are present in same network share location as the custom catalog and you want the DUPs to be downloaded from offline share instead of dell.com, ensure that the base location for the corresponding custom catalog is empty.
 2. Catalogs with updatable components that are created using Dell Repository Manager or Dell Server update utility (SUU) based catalogs can also be used.
 3. 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. To ensure that the file is well formed and there is no unwanted or corrupted data. Enter the values in the authentication options and select Test Now to test the network share connection.
 4. The appliance may become unresponsive if the selected catalog fails to download. Refresh the browser to reload OpenManage Enterprise again.
4. Update catalog: You can update the selected catalog manually or automatically. 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 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 that are not accessible to the user with device manager privileges.
1. All Devices—Selects all the devices in the selected catalog.
 2. Device—Selects 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.
 3. 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 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 pages. 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. In OpenManage Enterprise, baseline appears in the Firmware/Driver Compliance page under Configuration. The catalogs corresponding to the repositories and the baselines created by Update Manager Plugin 1.4, and later versions, are not displayed on OpenManage Enterprise Catalog Management page.

NOTE: After the upgrade from Update Manager Plugin version 1.3 to version 1.4, the Update Manager repository catalog is not displayed on the OpenManage Enterprise Catalog Management page, after refreshing or updating an existing repository.

The Update Manager generated catalogs carry applicable updates for all the platforms. However, updating the device for re-branded AX and VXRail platforms is not supported.

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 and above. 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.

NOTE:

- If the user who had created or modified the repository, is deleted from OpenManage Enterprise, then the username of same user is displayed in the format {username}_deleted_{user_ID} in the repository details.
- AD (Active Directory) users can log in to the OpenManage Enterprise console using any of the permissible formats, however the username will be displayed in an implicit UPN format with the complete domain path.

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 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.
- If you create a baseline manually for the repositories that are created without baselines in previous versions of Update Manager.

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 checkboxes.
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:
 1. Update Now: To apply the firmware or driver updates immediately.
 2. 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:
 1. Reboot server immediately: Reboots the server after firmware or driver update.
 2. 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.
NOTE: OpenManage Enterprise supports update for YX3X PowerEdge servers using CIFS share as default path instead of HTTPs for iDRAC. For more information on supported PowerEdge servers, see section Identifying the series of your Dell PowerEdge servers in User's guide.
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 the 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. Update packages only 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 must be imported and click Import.
 1. To select all the repositories, select the check box to the left of Name.
 2. To select one or more repositories, select the check box next to a repository.
 3. 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:

1. The import operation is not successful if the update package does not have a valid signature.
 2. It is recommended to not change the file name of the DUP to be imported.
 3. The import of DUP fails if you create repository for a PowerEdge server, and later delete all the devices of the supported PowerEdge server from Dell OpenManage Enterprise (OME).
4. Click Finish after the import job is completed.

Results

After 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.
 1. Select one or multiple device bundles by expanding the repository and selecting the check box next to the bundle.
 2. 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

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. A repository refresh task replaces the catalog present in the

repository with the latest available version.

Prerequisites

Ensure that the repository has sufficient storage space. See delete repository or component to manage repository storage space.

About this task

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

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

- When the base catalog is refreshed to a new catalog version.
- When Dell devices are added or removed from the groups, used for repository creation.
- When any of the groups used for repository creation is removed from repository owner's scope.
- When the scope is changed for a user with device manager privileges.
- When Dell 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:

1. From Plugins go to Update Management and the 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.
- If all the groups or devices associated with a repository are removed from the repository owner's scope, then the refresh job task fails with an error message, No devices found to perform refresh. No new versions get created as there is no data available for this repository. The older versions of repositories will still be retained, and can be deleted manually.
- If an administrator changes the role of Device manager (DM) to Viewer, then the demoted user loses access to

all owned entities like repositories and baselines. Since, the repository owner has become a Viewer, the subsequent refresh task on that repository fails.

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 the device groups are removed from the assigned scope for a device manager user, the repository refresh job fails.

Maintain update manager

Disable Update Manager

Steps

1. Click Application Settings > Console and Plugins. The Console and Plugins tab is displayed.
2. In the Plugins section, click Disable for the Update Manager. The Disable multiple plugins wizard is displayed.
3. Select the Update Manager, from the Select plugins section, and click Next . The details of the number of users logged into OpenManage Enterprise, tasks in progress, and schedule jobs are displayed in the Confirmation dialog box.
4. To confirm, select the I agree that I have captured a backup of the OpenManage Enterprise appliance prior to performing a plugin action. option, and then click Finish.

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

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

Steps

1. Click Application Settings > Console and Plugins.
The Console and Plugins tab is displayed.
2. In the Plugins section, click Enable for Update Manager.
The Enable multiple plugins wizard is displayed.
3. Select the Update Manager, from the Select Plugin section, and click Next.
The details of the number of users logged in to OpenManage Enterprise, tasks in progress, and schedule jobs are displayed in the Confirm Backup section.
4. To confirm, select the I agree that I have captured a backup of the OpenManage Enterprise appliance prior to performing a plugin action. option, and then click Finish.

Results

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

Uninstall Update Manager

Steps

1. In OpenManage Enterprise, click Application Settings > Console and Plugins.
The Console and Plugins tab is displayed.
2. In the Plugins section, click Uninstall for the Update Manager plug-in.
The Uninstall multiple plugins wizard is displayed.
3. Select the Update Manager, from the Select Plugin section and then click Next.
The details of the number of users logged in to OpenManage Enterprise, tasks in progress, and scheduled jobs are displayed in the Confirm Backup section.
4. To confirm the uninstall, select the I agree that I have captured a backup of the OpenManage Enterprise appliance prior to performing a plugin action option, and click Finish.

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. Maintain

Manage Backup and Restore

This section provides information about the Backup and Restore process for the Update Manager plug-in and VM-to-VM migration.

The backup and Restore feature, in OpenManage Enterprise, allows you to back up OpenManage Enterprise core content along with Update Manager plug-in content and restore it on the same or another appliance. VM-to-VM migration allows you to back up the content of an appliance from a VM to the target OpenManage Enterprise VM. For more information about configuring backup and restore jobs and VM-to-VM migration, see the OpenManage Enterprise user's guide on Dell support site.

For backup and restore, the Update Manager plug-in provides two options: Metadata Backup and File Store Backup. Before initiating the backup task in the OpenManage Enterprise appliance, you must select the appropriate option in the Update Manager plug-in Settings page. For more information, see Configure Update Manager settings

- Metadata Backup: allows backup of the Update Manager software and DUP paths. While restoring, a post-restore task runs to download or import all DUP files from relevant sources. In this case, all the repositories and action buttons remain disabled until the task completes, and all the DUPs are available in the local repository.

NOTE: Restoring from the Metadata backup file takes more time, as compared to file store backup, as it downloads all DUPs to the local repository.

- File Store Backup: allows a full backup of the Update Manager including all DUPs that are available in the local repository. In addition, the file structure, whether nested or individual file, is also retained on the target appliance during restoration.

NOTE: If file store size is more than 4 GB, then use CIFS or NFS share type for backup.

NOTE: When the OpenManage Enterprise appliance is in maintenance mode during backup or restore process, the Update Manager repositories are not displayed. The task bar displays the message as Backup process in progress or Restore process in progress.

NOTE: Post-Restore, the post_restore_download_task performed by the Update Manager starts after few minutes as it takes time for the OpenManage Enterprise services to be fully up. The user must wait for post_restore_download_task to complete, before editing the repositories or Update Manager settings.

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.

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.

Identifying the series of your Dell PowerEdge servers

The PowerEdge series of servers from Dell are divided into different categories based on their configuration. They are referred as YX2X (12th generation), YX3X (13th generation), YX4X (iDRAC9 based PowerEdge servers), YX4XX(latest iDRAC9 based PowerEdge servers), or YX5XX (latest iDRAC9 based PowerEdge servers) series of servers. The structure of the naming convention is described below:

The letter Y denotes the character in the server model number. The character denotes the form factor of the server. The form factors are listed below:

- C- Cloud
- F- Flexible
- M or MX- Modular
- R- Rack
- T- Tower

The letter X denotes the numbers in the server model number. The number denotes multiple characteristics about the server.

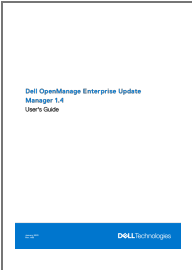
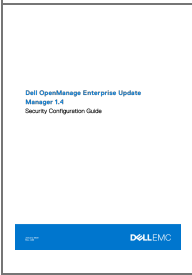
They are listed as follows:

- The first digit (X) denotes the value stream or class of the server.
 - 1-5—iDRAC basic
 - 6-9—iDRAC Express
- The second digit denotes the series of the server. It is retained in the server naming convention and does not replace the letter X.
 - 0—series 10
 - 1—series 11
 - 2—series 12
 - 3—series 13
 - 4—series 14
 - 5—series 15
 - 6—series 16
- The last digit (X) always denotes the make of the processor as described below:
 - 0-Intel
 - 5-AMD

NOTE: For servers that use an AMD processor, the model number is made up of four digits instead of three. The third digit (X) denotes the number of processor sockets that the series of servers supports.

- 1- One socket server
- 2- Two-socket server

YX4X servers	YX4XX servers	YX5XX servers	YX6XX servers
PowerEdge M640	PowerEdge R6415	PowerEdge R6515	PowerEdge R7625
PowerEdge R440	PowerEdge R7415	PowerEdge R7515	–
PowerEdge R540	PowerEdge R7425	PowerEdge R6525	–

	<p>DELL 1.4 OpenManage Enterprise Update Manager [pdf] User Guide</p> <p>1.4, 1.4 OpenManage Enterprise Update Manager, OpenManage Enterprise Update Manager, Enterprise Update Manager, Update Manager</p>
	<p>DELL 1.4 OpenManage Enterprise Update Manager [pdf] User Guide</p> <p>1.4, 1.4 OpenManage Enterprise Update Manager, OpenManage Enterprise Update Manager, Enterprise Update Manager, Update Manager</p>