

Dell EMC OpenManage Enterprise-Modular Edition for PowerEdge MX7000 Chassis

Release Notes

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.

Revision history

Date	Document revision	Description of changes
April 2021	A00	v1.30.00 - Updates for new features and enhancements
July 2021	A01	v1.30.10 - Updates for DC power supply

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Release summary

The Dell EMC OpenManage Enterprise - Modular is a system management hardware and software solution for managing the Dell EMC PowerEdge MX7000 chassis.

Version

1.30.10

Release date

July 2021

Priority and recommendations

RECOMMENDATION: Dell Technologies recommends applying this update during your next scheduled update cycle. The update contains feature enhancements or changes that help keep your system software current and compatible with other system modules (firmware, BIOS, drivers, and software).

Compatibility

Topics:

- [Supported systems](#)
- [Supported web browsers](#)

Supported systems

Chassis

- Dell PowerEdge MX7000

Sleds

- Dell PowerEdge MX740c
- Dell PowerEdge MX750c
- Dell PowerEdge MX840c
- Dell PowerEdge MX5016s

I/O Modules

- PowerEdge MX 25Gb Ethernet Pass-Through Module
- PowerEdge MX 10GBASE-T Ethernet Pass-Through Module
- PowerEdge MX5000s SAS Switch
- Dell EMC MX9116n Fabric Switching Engine
- Dell EMC MX7116n Fabric Expander Module
- Dell EMC MX5108n Ethernet Switch
- Dell EMC MXG610s Fibre Channel Switch

Supported web browsers

- Google Chrome version 90
- Google Chrome version 91
- Mozilla Firefox version 88
- Mozilla Firefox version 89
- Microsoft EDGE 90
- Microsoft EDGE 91
- Microsoft Internet Explorer 11
- Safari version 13
- Safari version 14

New and enhanced features

This release of OME-Modular supports:

- DC power

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- Group configuration option on the **Home** page in multi chassis environment.
- Profiles menu to create, assign, edit, and redeploy profiles with identities separately from templates.
- Editing templates.
- Advanced license for:
 - Chassis telemetry for power, thermal, and fans
 - OpenID Connect Provider for delegated authentication
- Redfish alert forwarding. For more information, see the *OpenManage Enterprise Modular Edition RESTful API Guide*.
- Ethernet IOM switch replacement wizard for easy replacement of faulty fabric switches.
- L2 Multicast in SmartFabric Services.
- LCD enhancement using PIN entry to unlock emergency access to local actions such as chassis power off.
- Reminder to select backup chassis.
- Same SSO login session sharing in tabs and not counting against the limit on number of sessions.
- Fabric creation progress banner.
- OS10 DUP to be posted in the validated stack catalog.
- Link to Release Notes from the info icon on the **Compliance Report** page.
- Displaying pre-requisites and dependencies for components in compliance report.
- Automatic restoration of configuration to Right Control Panel (RCP) on replacement. For more information, see the *Dell EMC PowerEdge MX7000 Enclosure Field Service Manual*.
- PowerEdge MX750c platform.

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- Quad-Port Ethernet adapters in up to five MX7000 chassis in a scalable fabric.
- Up to 512 VLANs per fabric, 256 VLANs per server port, and up to 512 VLANs per uplink.
- The category, "Unknown" in compliance reports for components that are not supported in catalogs.
- Additional topologies for Fabric Expander Module connectivity.

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- Deploying templates on empty slots or slots that compute sleds occupy.
- Reclaiming MAC identities after removing profiles that are associated with blade servers.
- Synchronizing VLAN definitions of OME-Modular and OpenManage Enterprise.
- Alert notifications when a chassis is onboarded.
- Configuring Forward Error Correction (FEC) for SmartFabric.
- Propagating VLANs without server reboot.
- Deploying operating system using Boot to ISO after applying profile.
- Enhancements to Uplink Failure Detection.
- Enabling `racadm connect` to Brocade MXG610s.
- Performing Hard Reset only on iDRAC instead of whole sled.
- Setting Name field as the default sort order in device grids.
- Enhanced alert pop-ups to appear on the upper right corner of the user interface.

- New SmartFabric Uplink type—Ethernet - No Spanning Tree.
- Reduction in alert volumes API to replace failed Ethernet switch Autodetection of Scalable Fabric expansion from one to two chassis.

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- Technical preview of transparent Ethernet uplink configuration.

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- Group management through LCD.
- Assigning member chassis in MCM as backup chassis and promoting backup chassis as lead chassis.
- Configuring hot spare for the chassis.
- Accessing chassis using USB.
- Customizing strings that are displayed on the chassis LCD.
- Configuring network session inactivity timeout.
- Extracting logs to a local drive on your system.
- Downloading the Management Information Base (MIB) file to a local drive on your system.

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- Manages up to 20 chassis using a single interface—web or RESTful interface.
- Enables editing a VLAN after deployment, from the **Fabric Details** page.
- Certified for Federal Information Processing Standard (FIPS) 140-2 standards. For details, see certificate #2861 at csrc.nist.gov/projects/cryptographic-module-validation-program/Certificate/2861.

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- Provides a unified management interface for compute, storage, and networking components.
- Provides end-to-end life cycle management of all components.
- Manages up to 10 chassis using a single interface—web or RESTful interface.
- Manages fabric switch engines in SmartFabric Services mode across all chassis.

Fixes

Topics:

- [Incorrect dependency component download link](#)
- [Video refreshes slowly on screen refresh](#)

Incorrect dependency component download link

Fixed an issue where the dependency information link was incorrect when baseline is accessed using **Device > Update > Baseline > Prerequisite**.

Tracking number

194579

Video refreshes slowly on screen refresh

Fixed an issue with KVM performance while using the DisplayPort on the front of the chassis.

Tracking number

203780

Important Notes

Topics:

- [Security](#)
- [Ethernet Switch firmware update](#)
- [Upgrading or downgrading OME-Modular](#)
- [Template deployment](#)

Security


OpenVAS vulnerability scanner may report the following issues:

- CVE-2017-15906, CVE-2018-15919, CVE-2018-15473: Security scan may report these CVEs on OME-Modular. These are false positives as, OME-Modular disables the Secure Copy Protocol (SCP) by default. The SFTP and lockout policies are in place to avoid brute force attack.

Security best practices

- SNMP
 - Security scanners may identify SNMP. If you do not use SNMP in your deployment, you can disable SNMP.
 - If SNMP is required, Dell Technologies recommends that the default community name is changed from `public`.
- By default, a self-signed certificate is generated to enable HTTPS communication. Dell Technologies recommends generating a CSR and installing a valid non-self signed certificate.

Besides improving the security of OME-Modular, these actions eliminate warnings that the vulnerability scanners, relating to the default self-signed web server certificate, and default SNMP community name, produce.

 **NOTE:** Dell Technologies recommends changing the default password for OME-Modular.

Ethernet Switch firmware update

For instructions about updating network IOMs, see the *Dell EMC OpenManage Enterprise - Modular Edition Version 1.30.00 for PowerEdge MX Chassis User's Guide*.

Upgrading or downgrading OME-Modular

Clear the browser cache before or after upgrading or downgrading OME-Modular.

Template deployment

- If you deploy a template on servers with PERC controllers in HBA mode, then the profile deployment may fail. Check the iDRAC Lifecycle Controller logs for the error details.

Known issues

Topics:

- Advanced Filter option not working in Audit Logs
- iDRAC SSO does not work in OME-Modular
- Inconsistent behavior in lead and member chassis sleds during slot deployment
- Configured local time not applied on lead chassis and member chassis after disabling NTP
- MAC identities displayed in RESERVED state
- Chassis alerts not received in Redfish event listener after management module failover task
- Redeployment of MCM profiles for all member chassis sleds fails when VLAN is modified in device-based deployment
- All member chassis passive module is getting rebooted when performing "racadm racreset" in lead chassis
- Maximum template deployment from OpenManage Enterprise on management module sleds causes management module chassis to be inaccessible
- Power supply input voltage and input current display nil for PSUs that are removed
- Windows keystroke does not work on sled when chassis is connected to KVM
- PSU type displays AC for removed PSU or empty PSU slot in DC chassis in SNMP and RESTful API interfaces

Advanced Filter option not working in Audit Logs

Description	On the Audit Logs page, the Advanced Filter does not work when you enter search text containing special characters such as accented vowel.
Workaround	Use filter search on other parts of the text which do not use UTF-8 characters.
Systems affected	All systems supported in this release
Tracking number	154213

iDRAC SSO does not work in OME-Modular

Description	For iDRAC SSO login, click Compute Overview > Launch iDRAC or Compute Overview > Virtual Console . The iDRAC user interface login page is not launched in a new tab from the OME-Modular interface when the custom port is configured to 8080.
Workaround	Use a port other than 8080 or the default port, 443.
Systems affected	All systems supported in this release
Tracking number	188432

Inconsistent behavior in lead and member chassis sleds during slot deployment

Description	In MCM environment, when you attach a profile to a member chassis slot from the lead chassis and insert a compute and perform an erase operation on the compute, the profile is not deployed after the compute comes up. But in stand-alone and lead chassis, where the sled is physically present on the chassis, the profile is deployed after the erase operation.
Workaround	Unassign profiles that are deployed on an erased compute.
Systems affected	All systems supported in this release

Tracking number 189934

Configured local time not applied on lead chassis and member chassis after disabling NTP

Description When you clear the external NTP and change the local time, internal NTP is slow in identifying the correct time source. As a result, the time is reverted.

Workaround Set the required time on the **Application Settings > Network > Time Configuration** page.

Systems affected All systems supported in this release

Tracking number 192713

MAC identities displayed in RESERVED state

Description MAC identities displayed in RESERVED state for some of the partitions after Slot Deployment is performed using Attach and Apply Immediately operation.

Workaround Redeploy OME-Modular.

Systems affected All systems supported in this release

Tracking number 194347

Chassis alerts not received in Redfish event listener after management module failover task

Description After the first management module (MM) failover:

- POST subscribers do not receive alerts and telemetry events.
- Telemetry customizations are not effective but are not lost.

Workaround Perform a second MM failover task.

Systems affected All systems supported in this release

Tracking number 195224

Redeployment of MCM profiles for all member chassis sleds fails when VLAN is modified in device-based deployment

Description Server Profile deployment with modified attributes is failing for member sleds when only VLAN configuration is modified.

Workaround While modifying the VLAN configuration from the **Edit Network** page, select the **Propagate VLAN** checkbox. Perform full redeployment of the profile.

Systems affected All systems supported in this release

Tracking number 195597

All member chassis passive module is getting rebooted when performing "racadm racreset" in lead chassis

Description	Standby management system modules on the Member chassis are rebooted after "racadm racreset" operation is performed on Lead chassis.
Workaround	<ul style="list-style-type: none">• If the system is already in failed state, a user can change the timezone to something other than GMT from Lead MSM GUI/Standalone which propagates the new timezone to all the Members in the group. Else, irrespective of MCM or Standalone setup, before performing "racadm racresetcfg", set the time zone to GMT.• If the setup is already in MCM group, remove the member chassis from the group and change the timezone as stated above before performing the "racadm racresetcfg".
Systems affected	All systems supported in this release
Tracking number	195686

Maximum template deployment from OpenManage Enterprise on management module sleds causes management module chassis to be inaccessible

Description	When maximum template (160 sleds) deployment is triggered from OpenManage Enterprise, OME-Modular becomes unresponsive.
Workaround	Deploy templates in smaller groups or wait for OpenManage Enterprise to complete the job and the system recovers.
Systems affected	All systems supported in this release
Tracking number	198313

Power supply input voltage and input current display nil for PSUs that are removed

Description	When a Power Supply Unit (PSU) is removed from the chassis and an SSE get call is run using a browser, the PSUInputVoltage and PSUInputCurrent display "Nil" for the PSU.
Workaround	Remove the external power supply to prevent the issue.
Systems affected	All systems supported in this release
Tracking number	201641

Windows keystroke does not work on sled when chassis is connected to KVM

Description	The Windows key is not effective when you press it from the KVM session.
Workaround	All keystrokes work correctly with Virtual Network Computing (VNC) and vConsole. You can switch to vConsole or VNC.
Systems affected	All systems supported in this release.

Tracking number 202510

PSU type displays AC for removed PSU or empty PSU slot in DC chassis in SNMP and RESTful API interfaces

Description Empty PSU slot in DC chassis displays AC in two SNMP and RESTful API interfaces.

Workaround None

Systems affected All systems supported in this release

Tracking number 202369

Limitations

1. OME-Modular is supported only on TLS 1.2 and later. Versions earlier than 1.2 may or may not work. Also, support for earlier versions of TLS is not provided.
2. A blinking cursor is not displayed in the text fields when going to the console for the first time owing to an issue in Chrome. For details and status, see bugs.chromium.org/p/chromium/issues/detail?id=740652.
3. The 'up' and 'down' buttons in a numeric input field, when using Firefox on Windows Server 2012, are not displayed correctly. The issue exists from Firefox version 37. However, the manual input of values is not impacted. For details, see bugzilla.mozilla.org/show_bug.cgi?id=1158435.

This issue also affects other versions of Firefox depending on the positioning of the numeric input. The numeric up and down buttons are not sized correctly when used in a data grid in MCSl. However, the manual input of values is not impacted. For details, see bugzilla.mozilla.org/show_bug.cgi?id=947365.

4. An open-source component that is used for certain selection inputs may not respond to arrow key presses. The issue is limited to the AD/LDAP import wizard. For details, see github.com/select2/select2/issues/3472.
5. If the text has no spaces or punctuation, the HTML titles containing long strings of text are truncated in Internet Explorer (IE) and Microsoft Edge. This is the default behavior of IE and Microsoft Edge.
6. Internet Explorer has performance issues that are related to DOM rendering and manipulation, both of which are widely used in a single-page application. For details, see developer.microsoft.com/en-us/microsoft-edge/platform/issues/7636678/.

These issues result in poor performance in AngularJS and many other open-source UI components. For details, see github.com/angular/angular.js/issues/12563 and github.com/angular-ui/ui-grid/issues/5855.

Version upgrades or design changes may be explored in future releases, which may help reduce these performance issues in IE. However, the possibilities for improvement may be limited as Microsoft is not developing IE. For alternatives, see the list of approved and supported browser versions.

7. While uploading a DUP using Microsoft Edge, the upload progress bar always shows 0%.
8. The array, `ComponentComplianceReports`, is expanded by default. The navigation link is no longer in the payload.
9. Some OME-Modular web interface sessions are not terminated even after the web interface inactivity timeout value expires. The session works if the browser is in the foreground or if you close the browser and enables the session to expire. Browsers such as Chrome contain a flag that facilitates disabling the throttle. This enables the automatic logout to work irrespective of browser being in the background or foreground.
10. The Chassis Direct sessions through MacBook may result in display of the alerts. In such cases, do not replace the hardware. Physically reseat the Chassis Direct USB connection.
11. On the **Jobs** page, the last run date for some jobs is displayed as 1970. In such cases, do not replace hardware. OME-Modular reverts to the correct date and timestamp once the management module syncs with its time source.
12. Alert policy configurations are deleted after downgrading OME-Modular firmware. Configure the alert policies after OME-Modular firmware downgrade is completed.
13. CIFS path names beginning with back slash (\), are not supported despite the OME-Modular share validation being successful.
14. For slot-based template deployment, the previous and current virtual identity MAC address values that are displayed on the **Results for Deploy and Configuration Check** page are the same.
15. When **Quick Deploy** and **Profile** settings are enabled for the slot, a deployment and configuration job is created every time that a sled is inserted. If the profile contains RAID attributes, the RAID settings are reconfigured. Disable **Quick Deploy** when RAID configuration exists in the profile.

Installation

See the *Dell EMC OpenManage Enterprise - Modular Edition Version 1.30.10 for PowerEdge MX Chassis User's Guide* for the following information:

- Prerequisites
- Hardware and software requirements
- Installation and configuration
- Updating MX7000 components using OME-Modular 1.30.10

Topics:

- [Updating firmware in OME-Modular](#)

Updating firmware in OME-Modular

For steps to update firmware using the individual package or catalog, see the *Dell EMC OpenManage Enterprise-Modular Edition Version 1.30.00 for PowerEdge MX7000 Chassis User's Guide* available at <https://www.dell.com/openmanagemanuals>.

Resources and support

For more information about the features of this release, see the documentation for OpenManage Enterprise Modular (OME-Modular) available at <https://www.dell.com/openmanagemanuals>.

Latest Release Notes

To access the latest Release Notes for this version:

1. Go to <https://www.dell.com/openmanagemanuals>.
2. Click **Dell OpenManage Enterprise**.
3. Click **Dell OpenManage Enterprise-Modular**.
4. Click **Documentation** and scroll down to the **Manuals and Documents** section to view the Release Notes.

Accessing documents using direct links


You can directly access the documents using the following links:

Table 1. Direct links for documents


URL	Product
https://infohub.delltechnologies.com/t/mx-series-modular-switches-poweredge-mx-7/	PowerEdge MX Networking Whitepapers and videos
https://www.dell.com/openmanagemanuals	OpenManage Enterprise Management
https://www.dell.com/idracmanuals	iDRAC and Lifecycle Controller
https://www.dell.com/serviceabilitytools	Serviceability Tools
https://www.dell.com/omconnectionsclient	Client System Management
https://www.dell.com/esmmanuals	OpenManage Connections Enterprise Systems Management

Accessing documents using product selector

You can also access documents by selecting your product.

1. Go to <https://www.dell.com/support>.
2. Click **Browse all products**.
3. Click the desired product category, such as Servers, Software, Storage, and so on.
4. Click the desired product.
 **NOTE:** For some products, you may have to go through the subcategories.
5. Click **Documentation** and scroll down to the **Manuals and Documents** section.

Contacting Dell EMC

 **NOTE:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell EMC product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell EMC for sales, technical support, or customer service issues, see <https://www.dell.com/contactdell>.