

Dell EMC OpenManage Enterprise-Modular Edition Version 1.10.10 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.

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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

1.10.10

Release date

November 2019

Priority and recommendations

RECOMMENDED: Dell 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 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 75
- Google Chrome version 76
- Mozilla Firefox version 57
- Mozilla Firefox version 58
- Mozilla Firefox version 67
- Mozilla Firefox version 68
- Microsoft EDGE 43
- Microsoft EDGE 44
- Microsoft Internet Explorer 11
- Safari version 11
- Safari version 12

New and enhanced features

- Enabled Technical preview of transparent Ethernet uplink configuration

Topics:

- Network configuration attributes
- Check Compliance operation
- Display of HWC2131 in Chassis Fault List
- Chassis KVM output in compute sleds
- Display of ISL cabling diagram in Internet Explorer and Microsoft Edge
- iDRAC on sled may lose communication with the management module and display HWC1228 after updating OME-Modular to 1.10.00
- Firmware catalog
- Local user account
- Graceful shutdown option for compute sleds
- Chassis profile deployment
- Editing firmware catalog
- iDRAC restore from lead chassis
- Chassis profile export
- Request to join group using Microsoft Edge or Internet Explorer
- Device display in member chassis
- Set proxy operation using hostname ending with numeric character
- iDRAC password with special characters
- Descriptive error for compute sleds
- Last run date for jobs
- IOM or storage device updates
- IOM firmware update
- Multiple firmware update jobs
- OME-Modular web interface slows down while deploying compute sleds
- PowerEdge MX 10GbT Passthrough Module
- MCM lead chassis does not display alerts
- Bandwidth settings on IOMs in fabric mode
- OME-M MCM Group Lead does not display network IOMs of member chassis
- Technical preview of Transparent Ethernet uplink using OME-Modular and SmartFabric operating system 10.5.0.3
- Storage sled drive inventory details in lead chassis
- Retire lead operation
- OME-Modular inaccessible after updating to 1.10.00 on 172.17.0.1/16 subnet

Network configuration attributes

Fixed an issue that caused failure in restoration of the network configuration attributes—**Network Auto Negotiation**, **Network Speed**, and **Duplex Mode** during the restore operation.

Tracking number

107884

Check Compliance operation

Fixed an issue that was causing the **Check Compliance** operation to fail, for non-administrator users, and not display an error message.

Tracking number

108258

Display of HWC2131 in Chassis Fault List

Fixed an issue that was causing the alert, HWC2131, to not display in the **Chassis Fault List** on the dashboard.

Tracking number

108458

Chassis KVM output in compute sleds

Fixed an issue that was causing loss of chassis KVM output when the AC power was restored after an outage in compute sleds.

Tracking number

108499

Display of ISL cabling diagram in Internet Explorer and Microsoft Edge

Fixed an issue that was causing improper display of the ISL cabling diagram , during fabric creation, in Internet Explorer and Microsoft Edge.

Tracking number

107300

iDRAC on sled may lose communication with the management module and display HWC1228 after updating OME-Modular to 1.10.00

Fixed an issue that was causing iDRAC versions earlier than 3.36.36.36, to stop communicating with the management module and display the error, HWC1228—"iDRAC on the sled is not communicating with the management module", while updating OME-Modular to 1.10.00.

Tracking number

141576

Firmware catalog

Fixed an issue that was causing automatic deletion of firmware catalog, if incorrect information was entered while creating the catalog.

Tracking number

106989

Local user account

Fixed an issue that was causing an error while creating a local user account under certain conditions.

Tracking number

105270

Graceful shutdown option for compute sleds

Fixed an issue that was causing the **Power Off (Graceful)** option for compute sleds to not display when the **Across all pages** option is selected on the OME-Modular web interface.

Tracking number

108133

Chassis profile deployment

Fixed an issue that was causing failure of chassis profile deployment after removing the system log or SNMP destination.

Tracking number

104215

Editing firmware catalog

Fixed an issue that was causing OME-Modular to not refresh the firmware catalog when it is updated with incorrect repository credentials.

Tracking number

106990

iDRAC restore from lead chassis

Fixed an issue that was causing failure of the iDRAC restore operation from the lead chassis.

Tracking number

108114

Chassis profile export

Fixed an issue that was causing the chassis profile export task, using the hostname or FQDN, to fail.

Tracking number

108459

Request to join group using Microsoft Edge or Internet Explorer

Fixed an issue that was causing failure of requests to join group using Microsoft Edge or Internet Explorer.

Tracking number

107147

Device display in member chassis

Fixed an issue that was causing devices to not display when they are moved from the lead chassis to member chassis in MCM environment.

Tracking number

108286

Set proxy operation using hostname ending with numeric character

Fixed an issue that was causing failure of set proxy operation if the hostname ended with a numeric character.

Tracking number

109454

iDRAC password with special characters

Fixed an issue that was causing the iDRAC password setting task, with special characters, to fail.

Tracking number

110940

Descriptive error for compute sleds

Fixed an issue that was causing descriptive errors to not display when compute sleds are in lockdown mode and VLAN settings are changed.

Tracking number

112537

Last run date for jobs

Fixed an issue that caused incorrect display of the last run date for some jobs after firmware update.

Tracking number

115338

IOM or storage device updates

Fixed an issue that was causing updates of IOM or storage devices to not start, when IOM or storage devices are selected as chassis components while updating firmware baselines.

Tracking number

115635

IOM firmware update

Fixed an issue that was causing failure of IOM firmware update when IOMs or storage devices are selected as part of the chassis component using the Compliance Report method.

Tracking number

115639

Multiple firmware update jobs

Fixed an issue that caused multiple firmware update jobs to start when IOMs or storage devices are selected while updating the firmware from baselines.

Tracking number

115640

OME-Modular web interface slows down while deploying compute sleds

Fixed an issue that caused the OME-Modular web interface to slow down when more than 150 compute sleds were deployed in a 20-chassis setup.

Tracking number

118264

PowerEdge MX 10GbT Passthrough Module

Fixed an issue that caused the graphical representation of the PowerEdge MX 10GbT Passthrough Module to not display on the **Group Topology** page owing to errors in identifying the correct IOM image.

Tracking number

118761

MCM lead chassis does not display alerts

Fixed an issue that caused the MCM lead chassis to not display alerts from chassis components.

Tracking number

117677

Bandwidth settings on IOMs in fabric mode

Fixed an issue that caused failure of bandwidth settings deployment on IOMs in fabric mode when an imported template is used.

Tracking number

117251

OME-M MCM Group Lead does not display network IOMs of member chassis

Fixed an issue that caused the MCM group lead in OME-Modular to not display the network IOMs of the member chassis.

Tracking number

151831

Technical preview of Transparent Ethernet uplink using OME-Modular and SmartFabric operating system 10.5.0.3

Fixed an issue that was causing the configuration of Technical Preview of transparent Ethernet uplinks, using OME-Modular to fail.

Tracking number

150737

Storage sled drive inventory details in lead chassis

Fixed an issue that was causing improper display of inventory details of storage sled drives in the lead chassis when:

- The storage sleds are present in the same slot on both the lead and member chassis.
- The storage sleds are moved from one slot to another slot in member chassis.

Tracking number

151625, 153362, 153485

Retire lead operation

Fixed an issue that was causing the "Retire Lead operation" to fail owing to permission issues caused by Operating System internal services.

Tracking Number

150964

OME-Modular inaccessible after updating to 1.10.00 on 172.17.0.1/16 subnet

Fixed an issue that was causing OME-Modular to be inaccessible after updating to 1.10.00 on 172.17.0.1/16 subnet.

Tracking Number

PSE-9062

Important Notes

Topics:

- [Security](#)
- [Support for untagged VLAN in FCoE](#)
- [Networking switches updates](#)

Security


OpenVAS vulnerability scanner may report the following issues:

- NVT: OpenSSH 'sftp-server' Security Bypass Vulnerability (Linux) (OID: 1.3.6.1.4.1.25623.1.0.812051). This is a false positive based on the OpenSSH version that OME-Modular carries. No SFTP is exposed or supported.
- NVT: SSH Weak Encryption Algorithms Supported (OID: 1.3.6.1.4.1.25623.1.0.105611). OME-Modular supports secure algorithms and upgrades SSH clients to the appropriate option. Configure your SSH client to autonegotiate the crypto algorithms used.

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 EMC recommends that the default community name is changed from `public`.
- By default, a self-signed certificate is generated to enable HTTPS communication. Dell EMC recommends generating a CSR and installing a valid non-self signed certificate.

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

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

Support for untagged VLAN in FCoE

In SmartFabric mode, OS10 enables you to use any untagged VLAN for FCoE Ethernet uplinks and Ethernet server ports, which are part of the FCoE VLAN. The FCoE uplink identifies FIP Snooping bridge (FSB) mode at the switch. Configure the same untagged VLAN on the FCoE uplinks and server ports for the FCoE sessions to come up. In SmartFabric mode, you can assign any untagged VLAN to Ethernet server ports that belong to a FCoE VLAN. The FCoE VLAN can have one or many FC Gateway uplinks. The FC Gateway uplink identifies N-Port Proxy Gateway (NPG) mode at the switch. Also, you can assign any untagged VLAN to Ethernet server ports that belong to a FCoE VLAN, which has one or many FC Direct attach uplinks. The FC Direct attach uplink identifies F-Port mode at the switch.

Restrictions

- SmartFabric mode does not support multiple FCoE uplinks from the same IOM.
- In FCoE mode, the untagged VLAN on the server port and the FCoE uplink must be the same. This condition ensures that the untagged FIP VLAN discovery packets in the L2 frame, switch to the untagged VLAN.
- You cannot configure multiple FCoE uplinks corresponding to different untagged VLANs.

Networking switches updates

After upgrading all management modules to 1.10.10, upgrade the networking switches to OS10.5.0.1. You can find the switches at support.dell.com.

A firmware update for passthrough and MX7116n modules is staged for deployment on the next power cycle or virtual reseal of the module.

Known issues

Topics:

- Template deployment configuration job not created for sled
- Service tag of IOM is reported incorrectly from OME-Modular after reset all
- Multi-chassis firmware rollback fails with error
- Deployment and Configuration Job created multiple times for some sleds during Quick Deploy and Attach operation for sleds
- Error while assigning identities
- Unable to log in to OME-Modular Web interface after performing factory reset
- OME-Modular takes up to 30 minutes to fetch network IOM inventory
- Member chassis storage sleds inventory for all drives displayed as encryption capable in lead chassis
- HTTPS custom port in OME-Modular does not work after upgrading to 1.10.00
- Identity pool options missing in Edit Network view and during deployment
- Member chassis displays error message on promoted lead chassis

Template deployment configuration job not created for sled

Description	Template deployment configuration job is not created for a sled that is removed and reinserted after the backup lead is promoted. The job is not created because profiles are attached to the occupied slots from the original lead.
Workaround	Detach and reattach the required profiles for the occupied slots after backup lead is promoted and before removing or reinserting the sleds.
Systems affected	iDRAC, PowerEdge MX740c, and PowerEdge MX840c
Tracking number	145969

Service tag of IOM is reported incorrectly from OME-Modular after reset all

Description	OME-Modular reports a blank service tag for the IOMs after a 'reset all', <code>racadm racresetcfg</code> , operation.
Workaround	Perform management module reset or failover.
Systems affected	All systems supported in this release.
Tracking number	142890

Multi-chassis firmware rollback fails with error

Description	When you try firmware rollback for compute device components on the member chassis, with components rollback source as "Device", from the MCM group lead, a job is created on the member chassis and the job fails.
Workaround	You can roll back firmware with the source as "Device" directly on the respective member chassis.
Systems affected	PowerEdge MX7000

Tracking number 136224

Deployment and Configuration Job created multiple times for some sleds during Quick Deploy and Attach operation for sleds

Description In MCM Setup, the "Deployment and Configuration" job is created multiple times for some sleds during **Quick Deploy** and **Attach** operation. Jobs fail due to the duplicate deployment.

Workaround Ignore the failed deployment jobs. The duplicate jobs do not result in any issue.

Systems affected All systems supported in this release

Tracking number 141623

Error while assigning identities

Description While assigning identities on the **Template Deployment > Reserve Identities Error** page, you may get the errors, "Error assigning Identities" and "An application request timed out. Please contact your support representative if the issue persists." The errors are displayed when many devices are selected or the system is busy to process all selected devices before the OME-Modular Web interface timeout occurs.

The number of devices which can be processed varies based on several factors including the contents of the server configuration templates, configured pools, number of identities, and types of identities.

Workaround Select fewer devices for deployment or try again later when the system is not busy.

Systems affected The OME-Modular console during server file deployment.

Tracking number 142004

Unable to log in to OME-Modular Web interface after performing factory reset

Description Users may be unable to log in to OME-Modular Web interface after performing the following operations on a 240 GB MM:

1. Downgrading the MM firmware to 1.00.01 from 1.10.00 or 1.00.01.
2. Performing any factory reset such as `racreset`, `racresetcfg`, `FIPS_ON`, or `FIPS_OFF`.

The chassis is in bad state despite the reset operation being successful. You may be unable to access the MM Web interface. The MM IP takes over an hour to come up in such cases. You can run the command, `racadm config -g cfglannetworking -o cfgDNSRegisterRac 0`, through serial to get the IP.

Workaround Dell EMC recommends against downgrading the OME-Modular firmware to 1.00.01. For systems that are in bad state, remove the MM from the chassis. Reinsert the management modules one after the other and run the command, `racresetcfg` in each module.

Systems affected All systems supported in this release, with 240GB MM when downgraded to 1.00.10

Tracking number 143891

OME-Modular takes up to 30 minutes to fetch network IOM inventory

Description	When you insert a new network IOM into a chassis and do not refresh inventory, OME-Modular may take up to 30 minutes to fetch inventory data.
Workaround	Refresh inventory on the new IOM manually or wait until the next default inventory task is complete.
Systems affected	All systems supported in this release
Tracking number	146808

Member chassis storage sleds inventory for all drives displayed as encryption capable in lead chassis

Description	Member chassis storage sled inventory for all drives is displayed as Encryption Capable in the lead chassis though the drives do not support encryption.
Workaround	In the MCM environment, you can get the correct Encryption Capable information directly from the member chassis.
Systems affected	No physical systems affected. Information may be displayed incorrectly for storage sleds installed on member chassis, from the lead chassis web interface.
Tracking number	147384

HTTPS custom port in OME-Modular does not work after upgrading to 1.10.00

Description	Automatic redirection to HTTPS custom port does not work after updating to the OME-Modular firmware.
Workaround	Enter the hostname and custom port, for example, 10.10.10.10:1234, manually in the address bar of the browser to access OME-Modular. Reconfiguring the custom port after the firmware update helps resolve the issue.
Systems affected	OME-Modular with customized HTTPS port that is updated to the OME-Modular 1.10.00.
Tracking number	146489

Identity pool options missing in Edit Network view and during deployment

Description	The identity pool options are not displayed when the name of a template or NIC teaming is changed after restoring configuration to a new lead after retiring the existing lead. The identity pool options are not displayed during deployment and in the Edit Network view. However, this does not affect deployed identities that are displayed on the Identity Pools page.
Workaround	<ul style="list-style-type: none">• Clone the template and use the clone for all new device deployments.• Delete the old template, if it is not deployed.• If the old template is deployed, it works for the existing devices and can be retained.
Systems affected	All systems supported in this release.
Tracking number	147605

Member chassis displays error message on promoted lead chassis

Description	Sub system health and inventory calls for compute sled on the member chassis are failing from the promoted lead.
Workaround	Identify the member chassis where the compute sled is located and offboard the chassis. Then, perform the onboard task for the same chassis.
Systems affected	MX740c, MX840c
Tracking number	154251

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. When going to the console for the first time, a blinking cursor is not displayed in the text fields. This is owing to an issue in Chrome. For details and status, see bugs.chromium.org/p/chromium/issues/detail?id=740652.
3. When using Firefox on Windows Server 2012, the 'up' and 'down' buttons in a numeric input field are not displayed correctly. The issue exists in Firefox since 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. The HTML titles that consist of long strings of text are truncated in Internet Explorer (IE) and Microsoft Edge, if the text has no spaces or punctuation. 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 refer to 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 to 1.00.01 from 1.10.00. Configure the alert policies after OME-Modular firmware downgrade is completed.

Installation

See the *Dell EMC OpenManage Enterprise - Modular Edition Version 1.10.00 for PowerEdge MX Chassis User's Guide* for the following information:

- Prerequisites
- Hardware and software requirements
- Installation and configuration

Topics:

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

Downloading OME-Modular firmware

To download the latest OME-Modular firmware:

1. Go to dell.com/support.
2. Click **Browse all products**.
The **All products** window is displayed.
3. Click **Servers**.
The **All products / Servers** window is displayed.
4. Click **PowerEdge**.
The **All products / Servers / PowerEdge** window is displayed.
5. Click **Modular Infrastructure**.
The **All products / Servers / PowerEdge / Modular Infrastructure** window is displayed.
6. Click **PowerEdge MX7000**.
The **PowerEdge MX7000** page is displayed.
7. Click **DRIVERS & DOWNLOADS** to download the required component.

Updating firmware in OME-Modular

The update order for this release is as follows:

1. iDRAC 3.36.36.36 or the server bundle of all components on the compute sled
2. OME-Modular 1.10.00
3. Network IOMs to OS10.5.01

Dell recommends Catalog-based updates over Individual package method. The OME-Modular Web interface displays "Catalog" as the default option. You can update the firmware in OME-Modular using the following methods:

1. Individual package method—Through OME-Modular web interface or CLI (REST)
2. Catalog-based compliance method

If you are using a catalog, you can select both iDRAC and OME-Modular as OME-Modular sequences the update.

For steps to update firmware using the individual package or catalog, see the *Dell EMC OpenManage Enterprise-Modular Edition Version 1.10.00 for PowerEdge MX7000 Chassis User's Guide* available at 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 www.dell.com/openmanagemanuals.

Latest Release Notes

To access the latest Release Notes for this version:

1. Go to www.dell.com/openmanagemanuals.
2. Click **Dell OpenManage Enterprise**.
3. Click the link for this version of OME-Modular.
4. Click **Manuals & documents**.

Accessing documents using direct links

You can directly access the documents using the following links:


Table 1. Direct links for documents

URL	Product
www.dell.com/openmanagemanuals	OpenManage Enterprise Management
www.dell.com/idracmanuals	iDRAC and Lifecycle Controller
www.dell.com/serviceabilitytools	Serviceability Tools
www.dell.com/omconnectionsclient	Client System Management
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 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, and then click the desired version if applicable.

 **NOTE:** For some products, you may need to go through the subcategories.
5. Click **DOCUMENTATION**.

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>.