

Dell EMC OpenManage Enterprise-Modular Edition Version 1.20.00 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

1.20.00

Release date

June 2020

Priority and recommendations

RECOMMENDATION: 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 82
- Google Chrome version 83
- Mozilla Firefox version 75
- Mozilla Firefox version 76
- Microsoft EDGE 43
- Microsoft EDGE 44
- Microsoft Internet Explorer 11
- Safari version 12
- Safari version 13

New and enhanced features

This release of OME-Modular supports:

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

Topics:

- [Firmware rollback for compute device components on member chassis](#)
- [Blank service tags for IOMs](#)
- [Logging in to OME-Modular web interface after factory reset](#)
- [Template deployment configuration job for sled](#)
- [HTTPS custom port in OME-Modular](#)
- [Network IOM inventory](#)
- [Member chassis storage sled inventory for all drives](#)
- [Identity pool options in Edit Network view and during deployment](#)
- [Sub system health and inventory calls for compute sleds](#)

Firmware rollback for compute device components on member chassis

Fixed an issue that was causing failure of firmware rollback for member chassis compute device components, when the rollback source was the MCM group lead.

Tracking number

136224

Blank service tags for IOMs

Fixed an issue that was causing OME-Modular to display blank service tags for IOMs after a `'reset all'`, `racadm racresetcfg` operation.

Tracking number

142890

Logging in to OME-Modular web interface after factory reset

Fixed an issue that was not allowing users to log in to OME-Modular web interface after the following tasks were performed on a Management Module (MM):

1. Downgrading the MM firmware to 1.00.01 from 1.10.10 or 1.10.20.
2. Performing any factory reset such as `racreset`, `racresetcfg`, `FIPS_ON`, or `FIPS_OFF`.

Tracking number

143891

Template deployment configuration job for sled

Fixed an issue that was the template deployment configuration job for sleds that are removed and reinserted after promotion of a backup lead.

Tracking number

145969

HTTPS custom port in OME-Modular

Fixed an issue that was causing the automatic redirection to HTTPS custom port to fail after updating the OME-Modular firmware.

Tracking number

146489

Network IOM inventory

Fixed an issue that was causing OME-Modular to take about 30 minutes to fetch inventory data when a new network IOM was inserted into a chassis and the inventory was not refreshed.

Tracking number

146808

Member chassis storage sled inventory for all drives

Fixed an issue that was causing the member chassis storage sled inventory for all drives to be displayed as **Encryption Capable** in the lead chassis, though the drives did not support encryption.

Tracking number

147384

Identity pool options in Edit Network view and during deployment

Fixed an issue that was causing identity pool options to not display when the name of a template or NIC teaming was changed after restoring the configuration to a new lead. The identity pool options were not displayed in the **Edit Network** view and during deployment.

Tracking number

147605

Sub system health and inventory calls for compute sleds

Fixed an issue that was causing the calls for sub system health and inventory for compute sleds on the member chassis, to fail from promoted lead.

Tracking number

154251

Important Notes

Topics:

- [Keywords](#)
- [Security](#)
- [Ethernet Switch firmware update](#)

Keywords

From OME-Modular version 1.30, references to the following keywords shall be deprecated:

- MSM, LEX, Lexington, EC, Enclosure Controller, Poleg, CMC, Pathfinder, Sojourner, Senna, Insight, Galileo
- Weaver, Spinner, HE Switch, LE Switch, WeaverSwitch, HE, LE, DNV
- HEIOM, HE-IOM, HE_IOM, HE IOM, LEIOM, LE-IOM, LE_IOM, LE IOM
- FCIOM, FC-IOM, FC_IOM, FC IOM, Starlynx, Skylynx

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.

Ethernet Switch firmware update

For instructions about updating network IOMs, see the *Dell EMC OpenManage Enterprise - Modular Edition Version 1.20.00 for PowerEdge MX Chassis User's Guide*.

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

Known issues

Topics:

- Deployment and Configuration Job created multiple times for some sleds during Quick Deploy and Attach operation for sleds
- Error while assigning identities
- Advanced Filter option not working in Audit Logs
- Disabled NPAR NIC partitions enabled and listed in iDRAC and operating system after template deployment
- Reclaim identities task fails
- Devices duplicated or missing in list fetched using /api/DeviceService/Devices
- Error encountered in member chassis after downgrading to OME-Modular version 1.10.20
- Operating system display menu and iDRAC screen cropped when chassis is connected to 17 or 19-inch monitors

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

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

Disabled NPAR NIC partitions enabled and listed in iDRAC and operating system after template deployment

Description	A reference template, containing configuration changes for BIOS, NIC, and iDRAC was deployed on compute sleds in the chassis. The NIC configuration is N-PAR enabled. The first NIC partition is enabled, the second partition is enabled with FCoE, while the third and fourth partitions are disabled for A and B Fabric. After the template is deployed, the third and fourth NIC partitions must be disabled. But, all partitions are NIC enabled.
Workaround	<ul style="list-style-type: none">• Redeploy the template that has virtualization mode and NIC partition changes.• Create two jobs—one for changing the virtualization mode and the other for changing NIC partitions. After the virtualization mode is complete, initiate a job for NIC partition changes.
Systems affected	All systems supported in this release
Tracking number	166566

Reclaim identities task fails

Description	If the associated identity pool does not have enough identities to reserve, the Reclaim Identities or Detach Profile task fails.
Workaround	Generate template, which can be referred to during the reclaim identities task as part of the deployment.
Systems affected	All systems supported in this release
Tracking number	168225

Devices duplicated or missing in list fetched using /api/DeviceService/Devices

Description	Some devices are duplicated while some others are missing in the list of devices that is fetched by using the API, /api/DeviceService/Devices. The devices are picked from the database, randomly.
Workaround	Use the "Order By" filter to sort the list that is based on service tag or identifier of the device.
Systems affected	All systems supported in this release
Tracking number	169223

Error encountered in member chassis after downgrading to OME-Modular version 1.10.20

Description	An error is encountered in the member chassis when the OME-Modular version in the member chassis is downgraded to 1.10.20 from 1.20.00
Workaround	Clear the browser cache before and after upgrading or downgrading firmware.
Systems affected	All systems supported in this release.
Tracking number	168228

Operating system display menu and iDRAC screen cropped when chassis is connected to 17 or 19-inch monitors

Description	When the system is set to legacy BIOS mode, the initial BIOS boot screen that is rendered with resolution 720x400@70Hz is distorted. The distortion is due to a mismatch in aspect ratio in lower-end monitors of 17 or 19 inches.
Workaround	Set the system to UEFI mode for the BIOS screens to display correctly.
Systems affected	All systems supported in this release
Tracking number	169777

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 MCSI. 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 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 to 1.00.01 from 1.10.00. Configure the alert policies after OME-Modular firmware downgrade is completed.
13. The **HTTPS Test connection** feature does not work. Ignore the test connection error message, and download the Catalog using valid credentials.

Installation

See the *Dell EMC OpenManage Enterprise - Modular Edition Version 1.20.00 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 1.20.00

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

For steps to update firmware using the individual package or catalog, see the *Dell EMC OpenManage Enterprise-Modular Edition Version 1.10.20 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 <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 the link for this version of OME-Modular.
4. Click **DOCUMENTATION**.

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-powerededge-mx-7/	PowerEdgeMX 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, and then click the desired version if applicable.
 **NOTE:** For some products, you may have 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>.