

# Dell OpenManage Enterprise-Modular Edition Version 2.20.11 for PowerEdge MX7000 Chassis Release Notes

This document describes new features and issues that are resolved in the OpenManage Enterprise-Modular 2.20.11 release.

**Current Release Version:** 2.20.11

**Previous Release Version:** 2.20.10

**Release Type:** Minor (MI)

Topics:

- [Revision history](#)
- [Product description](#)
- [New and enhanced features](#)
- [MX7000 Solution Baselines](#)
- [Resolved issues](#)
- [Known issues](#)
- [Limitations](#)
- [Environment and system requirements](#)
- [Installation](#)
- [Where to get help](#)

## Revision history

**Table 1. Revision history**

Date	Document revision	Description of changes
June 2025	A00	v2.20.11 - Minor updates
December 2024	A00	v2.20.10 - Minor updates
December 2023	A00	v2.20.00 - Updates for new features and enhancements
May 2023	A00	v2.10.10 - Updates for 2.10.10 replacing 2.10.00
April 2023	A00	v2.10.00 - Updates for new features and enhancements
August 2022	A00	v2.00.00 - Updates for new features and enhancements
March 2022	A00	v1.40.20 - Support for Apache log4j version 2.17.1
December 2021	A00	v1.40.10 - Support for Apache log4j patch for CVE-2021-044228, CVE-2021-4104, CVE-2021-45046
December 2021	A00	v1.40.00 - Updates for new features and enhancements
July 2021	A01	v1.30.10 - Updates for DC power supply
April 2021	A00	v1.30.00 - Updates for new features and enhancements
August 2020	A00	v1.20.10 - Updates for new features and enhancements
June 2020	A00	v1.20.00 - Updates for new features and enhancements

**Table 1. Revision history (continued)**

Date	Document revision	Description of changes
March 2020	A00	v1.10.20 - Updates for new features and enhancements
November 2019	A00	v1.10.10 - Updates for enhancements
September 2019	A01	v1.10.00 - Updates for new features and enhancements
August 2019	A00	v1.10.00 - Updates for new features and enhancements
February 2019	A00	v1.00.10 - Updates for new features and enhancements

## Product description

The Dell OpenManage Enterprise - Modular (OME-Modular) is a system management hardware and software solution for managing the Dell PowerEdge MX7000 chassis. The OME-M application runs on the PowerEdge MX9002m management module (MM) firmware. OME-Modular facilitates configuration and management of a stand-alone PowerEdge MX chassis or group of MX chassis using a single Graphical User Interface (GUI). OME-Modular is used to deploy servers and update firmware. It is also used to manage the overall health of the chassis and its components such as compute sleds, network devices, input or output modules (IOMs), and storage devices.


## 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).

## New and enhanced features

### 2.20.11

Includes a fix for model name missing.

 **NOTE:** For baseline information of OME-Modular 2.20.11, see [MX7000 Solution Baselines](#).

### 2.20.10

Includes critical security and stability updates.

### 2.20.00

- Secure Syslog forwarding over TLS.
- Backup and Restore operation is supported irrespective of the current FIPS mode.
- Support a mix of 100 Gb and 25 Gb NIC on the same MX8116n. For more details, see the [Dell PowerEdge MX Networking Deployment Guide](#).
- Supports data transfer speed of 25 Gb on a 100 Gb dual-port NIC.
- Support Advanced NPAR in a mixed configuration of 100 Gb and 25 Gb in the same solution.

### 2.10.10

A potential instability issue involving internal component communications within OME-Modular is resolved.

## 2.10.00

- Support for Dell MX8116n Fabric Expander Module (FEM) and 100 GbE networking with Dell PowerSwitch Z9432F-ON as Fabric Switching Engine (FSE) in Full Switch mode.
- Advanced (switch dependent) NPAR to assign VLANs per partition on 25G Broadcom quad-port NICs with new templates and profiles in Full Switch mode and SmartFabric mode.
- Multi-Factor Authentication using DoD Common Access Card (CAC) and Personal Identity Verification (PIV) cards.
- CloudIQ inventory and telemetry of member chassis in an MCM group.

## 2.00.00

- Local RSA multifactor authentication solution.
- Secured Component Verification (SCV) for MX chassis.
- Automatic installation and renewal of TLS certificates.
- TLS 1.3 version
- Back up or restore enhancements.
  - HTTPS share to support backup or restore.
  - Periodic and scheduled backups
  - Backup option on lead dashboard under **Group Configuration** drop-down
  - Security SSL certificates
- Template or profile updates without changing assigned identities.
- Sort or search options while editing the template.
- Alerts when an NTP address cannot be resolved.
- Selecting one or more chassis, compute, or SAS IOM to extract troubleshooting logs simultaneously.
- Storage-NVME/TCP Network Type option when creating a VLAN.
- Minimum restriction on available data path VLANs .
- Increased VLAN scaling in Full switch and SmartFabric mode.
- Default uplink feature through OpenManage Network Integration UI.
- VLAN stacking in Full switch mode.

## 1.40.20

- Apache log4j patch for CVE-2021-044228, CVE-2021-4104, CVE-2021-45046

## 1.40.00

- Phased update order for OME-Modular 1.40.00 and later versions.
- Backup and restore of chassis and network IOMs.
- Enhanced backup and restore management for configuration recovery.
  - System configurations
  - Catalog baselines
  - Alert policies
  - SmartFabric
- Enhanced validated stack creation.
- SNMP v3 trap forwarding.
- Adding devices to an existing baseline.
- Increased VLANs.
- Security banner on the Login page.
- Syncing OME-Modular firmware if there is any mismatch.

## 1.30.10

- DC power

## 1.30.00

- Group configuration option on the **Home** page in a 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 the 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 the compliance report.
- Automatic restoration of configuration to Right Control Panel (RCP) on replacement. For more information, see the **Dell PowerEdge MX7000 Enclosure Field Service Manual**.
- PowerEdge MX750c platform.

## 1.20.10

- 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.

## 1.20.00

- 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 the whole sled.
- Setting the 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.

## 1.10.10

- Technical preview of transparent Ethernet uplink configuration.

## 1.10.00

- 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.

## 1.00.10


- 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](https://csrc.nist.gov/projects/cryptographic-module-validation-program/Certificate/2861).

## 1.00.01

- 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.

# MX7000 Solution Baselines

This section provides baseline information for the current OME-Modular 2.20.11 release and the previous OME-Modular 2.20.10 release.

 **NOTE:** For more information about the earlier OME-Modular baseline versions, see the OME-Modular release 2.20.xx User's Guide.


**Table 2. MX7000—OME-Modular 2.20.11 and the previous solution baseline**


Validated MX Stack Catalog Version	25.01.00	NA	25.07.00	—
Component	v2.20.10	v2.20.11	v2.20.11	Catalog exceptions
iDRAC with Lifecycle Controller for PowerEdge MX740c and MX840c	7.00.00.174	7.00.00.174	7.00.00.181	None
iDRAC with Lifecycle Controller for PowerEdge MX750c	7.10.90.00	7.10.90.00	7.20.30.50	None
iDRAC with Lifecycle Controller for PowerEdge MX760c	7.10.90.00	7.10.90.00	7.20.30.50	None
Dell Server BIOS PowerEdge MX740c and PowerEdge MX840c	2.22.1	2.22.1	2.24.0	None
Dell Server BIOS PowerEdge MX750c	1.15.2	1.15.2	1.17.2	None

**Table 2. MX7000—OME-Modular 2.20.11 and the previous solution baseline (continued)**

Validated MX Stack Catalog Version	25.01.00	NA	25.07.00	—
Component	v2.20.10	v2.20.11	v2.20.11	Catalog exceptions
Dell Server BIOS PowerEdge MX760c	2.4.4	2.4.4	2.6.3	None
QLogic 26XX series Fibre Channel adapters	16.25.11	16.25.11	17.05.01	None
QLogic 27XX series Fibre Channel adapters	16.25.11	16.25.11	17.05.01	None
QLogic 41xxx series adapters	16.25.01	16.25.01	16.30.09	None
Broadcom 57504 Quad Port device adapters	23.11.16.22	23.11.16.22	23.21.14.14	None
Broadcom 100G Dual port NIC	23.11.16.22	23.11.16.22	23.21.14.14	None
Mellanox ConnectX-4 Lx Ethernet Adapter Firmware	14.32.20.04	14.32.20.04	22.44.10.36	None
Intel NIC Family Version Firmware for X710, XXV710, and XL710 adapters	23.0.8	23.0.8	23.0.8	None
Intel NIC Family Version Firmware for X810, XXV810, and XL810 adapters	23.0.8	23.0.8	23.0.8	None
Emulex Fibre Channel Adapter Firmware 32G	03.08.24	03.08.24	03.09.13	None
OpenManage Enterprise - Modular	2.20.10	2.20.11	2.20.11	None
MX9116n Fabric Switching Engine OS10	10.5.6.7	10.5.6.7	10.5.6.7	None
MX5108n Ethernet Switch OS10	10.5.6.7	10.5.6.7	10.5.6.7	None
Z9432 Ethernet Switch OS10	10.5.6.7	10.5.6.7	10.5.6.7	None
MX5016s Storage Sled	2.40	2.40	2.40	None
MX5000s SAS IOM	1.0.9.8	1.0.9.8	1.0.9.8	None
MXG610s	9.2.0b1	9.2.0b1	9.2.0b1	No catalog update or DUP
Network IOM ONIE	3.35.5.1-25	3.35.5.1-25	3.35.5.1-25	None
Delta AC PSU	68.5F	68.5F	68.5F	Manual DUP
Artesyn AC PSU	36.6C	36.6C	36.6C	Manual DUP
Artesyn DC PSU	00.17.17	00.17.17	00.17.17	Manual DUP
NVMe/TCP	Supported	Supported	Supported	None

Before updating MX7000, check the PSU version. If the PSU version is 00.36.6B, then update the PSU..

 **NOTE:** Updating the MXG610s IOM is not supported from the OME-Modular user interface. Use the MXG610s interface on the IOM.

 **NOTE:** As these update instructions include updates to various components of the solution, there is a possibility of traffic impact to existing workloads. It is recommended that the updates are applied only during a regular maintenance window.

 **NOTE:** The validated Stack Catalog for MX7000 does not include firmware metadata for disks.

## Resolved issues

### Model Name missing in the Chassis Information page when the power redundancy configuration is changed

<b>Description</b>	The model name is missing in the <b>Chassis Information</b> page after changes in the power redundancy configuration.
<b>Action Required</b>	To restore the model name, perform a failover action after the firmware is updated to the 2.20.11 version.
<b>Tracking number</b>	35423

## Known issues

### Unable to collect Logs when both the MMs are replaced simultaneously

<b>Description</b>	When both MMs are replaced simultaneously in a member chassis, the log collection process intermittently fails. This issue occurs because the service tag is not populated in the Lead chassis within the MCM domain and in standalone chassis.
<b>Workaround</b>	Trigger logs from the member chassis instead of the lead chassis or perform <code>racresetcfg</code> on member chassis and retrigger logs from the Lead chassis.
<b>Systems affected</b>	PowerEdge MX7000
<b>Tracking number</b>	343534

### Lead to Member communication failing after multiple random retries of ACE action

<b>Description</b>	When multiple ACE actions are performed, the connection between Lead to Member communication fails. The error message 'Unable to perform the operation on the device because connection with the device is lost' is displayed.
<b>Workaround</b>	Perform a failover to revert the certification configuration applied in the current active MM.
<b>Systems affected</b>	PowerEdge MX7000
<b>Tracking number</b>	343696

### When certain OS10 specific jobs (restore, update or switch replacement, and so on) run beyond its defined timeout out of 5 hours, OS10 marks this task as completed

<b>Description</b>	When running <b>OS10 specific jobs</b> , it may take more time to complete than the defined time of 5 hours. However, it is observed that this job is completed on OS10
--------------------	---

<b>Workaround</b>	Retrigger the job after canceling the current job.
<b>Systems affected</b>	PowerEdge MX7000
<b>Tracking number</b>	344009, 344463, 344803

## Limitations

1. 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](https://bugs.chromium.org/p/chromium/issues/detail?id=740652).
2. 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](https://bugzilla.mozilla.org/show_bug.cgi?id=1158435).

**NOTE:** 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](https://bugzilla.mozilla.org/show_bug.cgi?id=947365)

3. 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](https://github.com/select2/select2/issues/3472).
4. 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.
5. 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/](https://developer.microsoft.com/en-us/microsoft-edge/platform/issues/7636678/).

**NOTE:** 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](https://github.com/angular/angular.js/issues/12563) and [github.com/angular-ui/ui-grid/issues/5855](https://github.com/angular-ui/ui-grid/issues/5855)

**NOTE:** 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.

6. While uploading a DUP using Microsoft Edge, the upload progress bar always shows 0%.
7. The array `ComponentComplianceReports`, is expanded by default. The navigation link is no longer in the payload.
8. 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 the browser being in the background or foreground.
9. The Chassis Direct sessions through MacBook may result in a display of the alerts. In such cases, do not replace the hardware. Physically reseal the Chassis Direct USB connection.
10. 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.
11. Alert policy configurations are deleted after downgrading OME-Modular firmware. Configure the alert policies after OME-Modular firmware downgrade is completed.
12. CIFS path names beginning with back slash (\), are not supported despite the OME-Modular share validation being successful.
13. 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.
14. 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.
15. Data filtering does not support special characters—, \ \_ % # ' ) + & for usernames.
16. Remote racadm commands do not work when the TLS version is set to **TLSv1.3 only**.
17. Multiple concurrent web sessions may cause performance issues for larger MCM setups.
18. When OME-Modular is discovering the sled after iDRAC/LC update or iDRAC reset, there is a possibility of an autodiscovery failure. This issue is fixed within 30 minutes on the next discovery.
19. Telemetry may display incorrect values for **Input Voltage** and **Input Current** when a PSU is removed.



# Environment and system requirements

## Supported systems

### Chassis

- Dell PowerEdge MX7000

### Sleds

- Dell PowerEdge MX740c
- Dell PowerEdge MX750c
- Dell PowerEdge MX760c
- 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 MX9116n Fabric Switching Engine
- Dell MX7116n Fabric Expander Module
- Dell MX8116n Fabric Expander Module
- Dell MX5108n Ethernet Switch
- Dell MXG610s Fibre Channel Switch
- Generic IOM

## Supported web browsers

- Microsoft EDGE 131
- Safari version 10.15.7
- Mozilla Firefox version 132
- Google Chrome version 131

## Installation

See the **Dell OpenManage Enterprise - Modular Edition Version 2.20.xx for PowerEdge MX7000 Chassis User's Guide** for the following information:

- Prerequisites
- Hardware and software requirements
- Installation and configuration

## Important Notes

### Security


Qualys scan may report the following issues:

- CVE-2020-14145, CVE-2021-28041, CVE-2023-38408, CVE-2021-36368—Security scans may report these CVEs on OME-Modular. The CVEs are false positives as, OME-Modular disables the Secure Copy Protocol (SCP) by default.

## 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 you use only **SNMP v3 Only** configuration. For more information, see the Dell OpenManage Enterprise Modular Edition for PowerEdge MX7000 Security Configuration Guide.
- By default, a self-signed certificate is generated to enable HTTPS communication. Dell Technologies recommends generating a CSR and installing a valid nonself-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.

See the **Dell OpenManage Enterprise - Modular Edition Version 2.20.10 for PowerEdge MX Chassis Security Configuration Guide** for security configuration details.

## Ethernet Switch firmware update

For instructions about updating network IOMs, see the **Dell OpenManage Enterprise - Modular Edition Version 2.20.10 for PowerEdge MX Chassis User's Guide**.

## Upgrading or downgrading OME-Modular

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

Firmware downgrade, synchronization, and part replacement actions with an older management module do not function when **TLS 1.3 Only** mode is configured. In such cases, change the **TLS Protocol** settings to default value, **TLS 1.2 and Higher**.

## 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.

## Resources and support

For more information about the features of this release, see the documentation for [OpenManage Enterprise Modular \(OME-Modular\)](#).

### Latest Release Notes

To access the latest Release Notes for this version:

1. Go to [Enterprise Systems Management](#) in the Dell Support site.
2. Click **Dell OpenManage Enterprise**.
3. Click **Dell OpenManage Enterprise-Modular**.
4. Click **Select this product**.
5. 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 3. Direct links for documents**

Product Links
<a href="#">PowerEdge MX Networking Whitepapers and videos</a>


**Table 3. Direct links for documents (continued)**

Product Links
<a href="#">Enterprise Systems Management</a>
<a href="#">iDRAC and Lifecycle Controller</a>
<a href="#">Serviceability Tools</a>
<a href="#">Client System Management</a>
<a href="#">OpenManage Enterprise-Modular</a>

## Accessing documents using product selector

You can also access documents by selecting your product.

1. Go to [Dell Support](#) page.
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 **Select the product**.
6. Click **Documentation** and scroll down to the **Manuals and Documents** section.

## OS10 password priorities

For OS10 version 10.5.5.7 and later, to log in to OS10 CLI, enter the password based on the following priority:


1. User-configured password for OS10 IOM if you have already configured.
2. OME-Modular factory password if the chassis is shipped with the factory password.
3. OS10 default password.

## Where to get help

 **NOTE:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell 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 for sales, technical support, or customer service issues, go to the [Dell Support](#) page.

## 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.