

Dell OpenManage Enterprise-Modular Edition Version 2.00.00 for PowerEdge MX7000 Chassis Release Notes

Revision history

Current Release Version: 2.00.00

Date	Document revision	Description of changes
December 2022	A01	v2.00.00 - Updates resolved issues
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
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

Introduction

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

This document contains the release notes for OME-Modular release versions.

For recommendation notes for a release upgrade, see the OME-Modular release version under the **Drivers & Downloads** tab under the platform model, on dell.com/support.

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).

Version matrix

The table below lists the OpenManage Enterprise Modular versions and release dates.

Table 1. Version matrix

Release Version	Release Date	Release Notes
OpenManage Enterprise Modular version 2.00.00	August 2022	OpenManage Enterprise Modular 2.00.00
OpenManage Enterprise Modular version 1.40.20	March 2022	OpenManage Enterprise Modular 1.40.20
OpenManage Enterprise Modular version 1.40.10	December 2021	OpenManage Enterprise Modular 1.40.10
OpenManage Enterprise Modular version 1.40.00	December 2021	OpenManage Enterprise Modular 1.40.00
OpenManage Enterprise Modular version 1.30.10	July 2021	OpenManage Enterprise Modular 1.30.10
OpenManage Enterprise Modular version 1.30.00	May 2021	OpenManage Enterprise Modular 1.30.00
OpenManage Enterprise Modular version 1.20.10	August 2020	OpenManage Enterprise Modular 1.20.10
OpenManage Enterprise Modular version 1.20.00	June 2020	OpenManage Enterprise Modular 1.20.00
OpenManage Enterprise Modular version 1.10.20	March 2020	OpenManage Enterprise Modular 1.10.20
OpenManage Enterprise Modular version 1.10.10	November 2019	OpenManage Enterprise Modular 1.10.10
OpenManage Enterprise Modular version 1.10.00	September 2019	OpenManage Enterprise Modular 1.10.00
OpenManage Enterprise Modular version 1.00.10	February 2019	OpenManage Enterprise Modular 1.00.10
OpenManage Enterprise Modular version 1.00.01	September 2018	OpenManage Enterprise Modular 1.00.01

OpenManage Enterprise Modular 2.00.00

New and enhanced features

This release of OME-Modular supports:

- Local RSA multi-factor 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 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.

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

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

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- 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.

Resolved issues

Individual chassis MM failover behavior inconsistent among group members

Fixed an issue that was causing MM failover in the lead and member chassis to fail.

Tracking number

220552

Upgrade and downgrade of all components in MCM displayed as completed

Fixed an issue that was causing the upgrade and downgrade of all components in MCM to display the status as "Completed" on the iDRAC interface. The "Completed" status was displayed even as the job was still running.

Tracking number

214058

Known issues

UI wizards display incorrect text in localized languages

Description	During configuration template refresh task, the message, "Refresh Template feature is not supported for this template as its DeviceID association to the Reference Device is invalid." is not displayed correctly in localized languages.
Workaround	N/A
Systems affected	PowerEdge MX7000, PowerEdge MX740c, PowerEdge MX840c, PowerEdge MX750c
Tracking number	230578

USB keyboard controls On-Screen Display menu and sled items simultaneously through RCP

Description	During KVM sled video session, users press HotKey (<PrtScr>+<PrtScr>) to view the On-Screen Display (OSD) menu. And, keyboard events are sent to OSD menu and the host operating system.
Workaround	<ul style="list-style-type: none">• Use mouse to navigate OSD page.• Use the iDRAC direct or vConsole to directly work on sled.

Systems affected All systems supported in this release
Tracking number 237121

Unable to change the web server configuration HTTPS port from custom to default port

Description Changing HTTPS port from a custom port back to default port 443 may fail.
Workaround Set SNMP inbound port configuration to default port 161 and then set HTTPS port configuration back to default port 443.
Systems affected PowerEdge MX7000
Tracking number 237551

OME-Modular with IPv4 IP network accessible from same subnet using different virtual machines

Description OME-Modular having Restricted or Allowed IP range with 32-bit CIDR configuration may allow more than one host to access OME-Modular.
Workaround Perform a `racresetcfg` on the chassis to recover from this condition.
Systems affected PowerEdge MX7000
Tracking number 237711

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.
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.

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.
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.
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/.

These issues result in poor performance in AngularJS and many other open-source UI components. For details, see 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.
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 browser being in the background or foreground.

9. The Chassis Direct sessions through MacBook may result in 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. Odata filtering does not support special characters—, \, _, %, #, ',), +, and & for usernames.
16. Remote racadm commands do not work when the TLS version is set to "TLSv1.3 only".

Environment and system requirements

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
- Generic IOM

Supported web browsers

- Google Chrome version 102
- Google Chrome version 103
- Mozilla Firefox version 99
- Mozilla Firefox version 100
- Microsoft EDGE 94
- Microsoft EDGE 95
- Microsoft Internet Explorer 11
- Safari version 15

Installation

See the *Dell OpenManage Enterprise - Modular Edition Version 2.00.00 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 2.00.00

Important Notes

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. The CVEs 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.
- CVE-2021-28041, CVE-2021-41617: The Qualys scan report displays these vulnerabilities when FIPS mode is enabled. These vulnerabilities are false positives.

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.

Ethernet Switch firmware update

For instructions about updating network IOMs, see the *Dell OpenManage Enterprise - Modular Edition Version 2.00.00 for PowerEdge MX Chassis User's Guide*.

Upgrading or downgrading OME-Modular

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

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.

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Resolved issues

N/A

Known issues

For details, see the section, [Known Issues](#) under [OpenManage Enterprise Modular 1.40.00](#).

Limitations

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Environment and system requirements

Supported systems

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- Dell PowerEdge MX7000

Sleds

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I/O Modules

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- Dell EMC MX5108n Ethernet Switch
- Dell EMC MXG610s Fibre Channel Switch
- Generic IOM

Supported web browsers

- Google Chrome version 94
- Google Chrome version 95
- Mozilla Firefox version 92
- Mozilla Firefox version 93
- Microsoft EDGE 94
- Microsoft EDGE 95
- Microsoft Internet Explorer 11
- Safari version 14
- Safari version 15

Installation

See the *Dell EMC OpenManage Enterprise - Modular Edition Version 1.40.20 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 1.40.20

Important Notes

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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 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.

Ethernet Switch firmware update

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

Upgrading or downgrading OME-Modular

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Template deployment

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Resolved issues

For details, see the section, [Fixes](#) under [OpenManage Enterprise Modular 1.40.00](#).

Known issues

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Installation

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- Prerequisites
- Hardware and software requirements
- Installation and configuration
- Updating MX7000 components using OME-Modular 1.40.10

Updating firmware in OME-Modular

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

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

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For instructions about updating network IOMs, see the *Dell EMC OpenManage Enterprise - Modular Edition 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.

OpenManage Enterprise Modular 1.40.00

Resolved issues

iDRAC SSO in OME-Modular

Fixed an issue that was causing the iDRAC interface login page to not launch in a new tab from OME-Modular interface, when the custom port was configured to 8080.

Tracking number

188432

Inconsistent behavior in lead and member chassis sleds

Fixed an issue that was causing inconsistent behavior in lead and member chassis sleds during profile deployment in slots.

Tracking number

189934

Configured local time on lead and member chassis

Fixed an issue where the configured local time was not applied on the lead and member chassis after NTP was disabled.

Tracking number

192713

MAC identities displayed in reserved state

Fixed an issue that was causing MAC identities to display RESERVED state for some partitions after Slot Deployment was performed using **Attach** and **Apply Immediately** operation.

Tracking number

194347

Chassis alerts in Redfish event listener

Fixed an issue that was causing the Redfish event listener to not receive chassis alerts after management module failover.

Tracking number

195224

Redeployment of MCM profiles for all member chassis sleds

Fixed an issue that was causing failure of server profile deployment with modified attributes for member chassis sleds when only VLAN configuration was modified.

Tracking number

195597

All passive member chassis management system modules reboot

Fixed an issue that was causing all standby management system modules on the member chassis to reboot after `racadm racreset` task was performed on the lead chassis.

Tracking number

195686

Power supply input voltage and input current display nil for PSUs

Fixed an issue that was causing the `PSUInputVoltage` and `PSUInputCurrent` to display "Nil" when a PSU was removed from the chassis and an SSE get call was run using a browser.

Tracking number

201641

Windows keystroke ineffective on sleds

Fixed an issue that was causing the Windows key to be ineffective on sleds when the chassis was connected to KVM.

Tracking number

202510

Empty PSU slot in DC chassis displays AC

Fixed an issue that was causing empty PSU slot in DC chassis to display AC in two SNMP and RESTful API interfaces.

Tracking number

202369

Known issues

Upgrade and downgrade of all components in MCM is marked completed when the job is running

Description	In MCM environment, upgrade and downgrade of all components is displayed as "Completed" on the iDRAC user interface even as the job is in progress.
Workaround	None
Systems affected	All systems supported in this release
Tracking number	214058

MXG610s uplinked to Nexus9000 C93180YC-FX does not come online

Description	MXG610s, in AG mode, when uplinked to Nexus9000 C93180YC-FX does not come online with speed set to AutoNegotiate .
Workaround	Hard-set the speed to 32G on both sides of the link to come up. During testing, it was observed that setting 32G fixed speed on both ends of link always brings up the ports.
Systems affected	All systems supported in this release
Tracking number	214065

Template deployment for all sleds in MCM fails

Description	In MCM, template deployment for all sleds fails when the original template extracted from iDRAC 4.40.10.00 is deployed in iDRAC 5.10.00.00 firmware.
Workaround	<ul style="list-style-type: none">• Always capture and deploy templates to and from identical hardware and firmware configurations.• Before applying a server profile, ensure the number of ports on a profile matches that of the target server.• Ensure all the server ports are properly connected to I/O modules.
Systems affected	All systems supported in this release
Tracking number	211447

Some sled alerts display source as "Member chassis" instead of "Member sled"

Description	In a multichassis environment, when sleds are removed and reinserted from the lead and member chassis, some sled alerts display the source as "Member chassis" instead of "Member sled".
Workaround	When post inventory of sled is completed in Lead chassis, the expected sled source name is displayed in alerts.
Systems affected	All systems supported in this release

Tracking number 204373

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

Maximum template deployment from OpenManage Enterprise causes inaccessibility of management module chassis

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

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 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. 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-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 reseal 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.
16. Odata filtering does not support special characters— , \, _ , % , # , ' ,) , + , and & for usernames.

Environment and system requirements

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
- Generic IOM

Supported web browsers

- Google Chrome version 94
- Google Chrome version 95
- Mozilla Firefox version 92
- Mozilla Firefox version 93
- Microsoft EDGE 94
- Microsoft EDGE 95
- Microsoft Internet Explorer 11
- Safari version 14
- Safari version 15

Installation

See the *Dell EMC OpenManage Enterprise - Modular Edition Version 1.40.00 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 1.40.00

Updating firmware in OME-Modular

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

Important Notes

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 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.

OpenManage Enterprise Modular 1.30.10

Resolved issues

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

Known issues

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 <code>PSUInputVoltage</code> and <code>PSUInputCurrent</code> 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-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 reseal 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.

Environment and system requirements

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

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

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>.

Important Notes

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.

OpenManage Enterprise Modular 1.30.00

Resolved issues

For the list of issues fixed, see the *OpenManage Enterprise-Modular Edition for PowerEdge MX7000 Chassis Release Notes* for 1.30.10, available on dell.com/manuals.

Deployment and configuration job for sleds

Fixed an issue that was creating multiple deployment and configuration jobs for some sleds during **Quick Deploy** and **Attach** tasks.

Tracking number

141623

Assigning identities

Fixed an issue that was causing errors while assigning identities on the **Template Deployment > Reserve Identities Error** page.

Tracking number

142004

Disabled NIC partitions

Fixed an issue that was enabling NIC partitions that were disabled, and displaying in iDRAC and operating system after template deployment.

Tracking number

166566

Jobs for all device actions

Fixed an issue that was creating jobs for all device actions instead of the selected or filtered device actions.

Tracking number

174924

Storage devices on member chassis

Fixed an issue that was causing storage devices on member chassis to be reported as unknown, though storage firmware was present in the catalog.

Tracking number

174410

Validated stack catalog download

Fixed an issue that was causing an error while downloading validated stack catalog using the option, **Newest validated stacks of chassis firmware on Dell.com**.

Tracking number

192282

Known issues

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: <ul style="list-style-type: none">• 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

- 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

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 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. 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-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 reseal 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.

Environment and system requirements

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

Installation

See the *Dell EMC OpenManage Enterprise - Modular Edition Version 1.30.00 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 1.30.00

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 1.30.10 for PowerEdge MX7000 Chassis User's Guide* available at <https://www.dell.com/openmanagemanuals>.

Important Notes

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 1.30.10 for PowerEdge MX Chassis User's Guide*.

Upgrading or downgrading OME-Modular

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

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.

OpenManage Enterprise Modular 1.20.10

Resolved issues

Reclaim identities task

Fixed an issue that was causing the reclaim identities or detach profile task to fail, when the associated identity pool did not have enough identities to reserve.

Tracking number

168225

Duplicate or missing devices

Fixed an issue that was causing duplicate or missing devices in the list of devices that was fetched using the API, `/api/DeviceService/Devices`.

Tracking number

169223

Known issues

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	<p>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.</p> <p>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.</p>
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

- 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

Job created for all targets instead of filtered or selected targets

Description Performing a device action on specific devices across multiple pages while filtering devices on a chassis, ignores the chassis filter. Instead, the device action targets all devices across all the pages.

Workaround Alternate filters can be used when performing a device action. Chassis filters can be used, but only for devices on that page, not across all pages.

Systems affected All systems supported in this release

Tracking number 174294

Storage devices reported as unknown even though catalog contains storage firmware

Description For storage devices on member chassis, the device compliance status is reported as "Unknown".

Workaround Trigger the inventory of the storage sled manually and rerun the compliance task.

Systems affected All systems supported in this release

Tracking number 174410

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. This is 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-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 reseal 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. The **HTTPS Test connection** feature does not work. Ignore the test connection error message, and download the Catalog using valid credentials.
14. CIFS path names beginning with back slash (\), are not supported despite the OME-Modular share validation being successful.

Environment and system requirements

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 83
- Google Chrome version 84
- Mozilla Firefox version 77
- Mozilla Firefox version 78
- Microsoft EDGE 83
- Microsoft EDGE 84
- Microsoft Internet Explorer 11
- Safari version 12
- Safari version 13

Installation

See the *Dell EMC OpenManage Enterprise - Modular Edition Version 1.20.10 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 1.20.10

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 1.20.10 for PowerEdge MX7000 Chassis User's Guide* available at dell.com/openmanagemanuals.

Important Notes

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 1.20.10 for PowerEdge MX Chassis User's Guide*.

 **NOTE:** You can update up to six IOMs simultaneously. However, the OME-Modular web interface displays a recommendation message to update only four IOMs simultaneously to ensure network stability.

Upgrading or downgrading OME-Modular

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

OpenManage Enterprise Modular 1.20.00

Resolved issues

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

Known issues

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	<p>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.</p> <p>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.</p>
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 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-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.

Environment and system requirements

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

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

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.

Important Notes

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 reseal of the module.

OpenManage Enterprise Modular 1.10.20

Resolved issues

Fibre Channel Mezz card components not visible in exported profile while deploying virtual identities

Fixed an issue that prevented users from viewing Fibre Channel Mezz card components in the exported profile while deploying virtual identities.

Tracking Number

145643

MIB file formatted incorrectly

Fixed an issue that was causing incorrect formatting of MIB files.

Tracking Number

155088

Management module reboots unexpectedly

Fixed memory leak and stability issues that were causing unexpected management module (MM) reboots.

Tracking numbers

157921 , 151134, 157943, 158722

Standby MM resets to unexpected defaults after failover

Fixed an issue that was causing the standby management module to reset to default after a failover.

Tracking Number

157922

Quick deployment jobs from lead chassis to member chassis compute sled fail

Fixed an issue that was causing failure of quick deploy jobs from lead chassis to member chassis compute sleds.

Tracking Number

157926

Old password not retained after performing racresetcfg

Fixed an issue that was causing the nonretention of old password after performing racresetcfg.

Inventory calls for compute sled returns error response

Fixed an issue that was causing inventory calls for compute sled to return error response 500.

Tracking Number

157259

Known issues

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	<p>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.</p> <p>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.</p>
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	<p>Users may be unable to log in to OME-Modular Web interface after performing the following operations on a 240 GB MM:</p> <ol style="list-style-type: none">1. Downgrading the MM firmware to 1.00.01 from 1.10.10 or 1.10.20.2. Performing any factory reset such as <code>racreset</code>, <code>racresetcfg</code>, <code>FIPS_ON</code>, or <code>FIPS_OFF</code>. <p>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, <code>racadm config -g cfglannetworking -o cfgDNSRegisterRac 0</code>, through serial to get the IP.</p>
Workaround	Downgrading the OME-Modular firmware to 1.00.01 is not recommended. 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, <code>racresetcfg</code> in each module.
Systems affected	All systems supported in this release, with 240 GB 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 or later

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 or later.
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 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-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.

Environment and system requirements

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

Installation

See the *Dell EMC OpenManage Enterprise - Modular Edition Version 1.10.20 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 1.10.20

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.

Important Notes

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 reset of the module.

OpenManage Enterprise Modular 1.10.10

Resolved issues

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

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

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-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.

Environment and system requirements

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

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

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.

Important Notes

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 reset of the module.

OpenManage Enterprise Modular 1.10.00

Resolved issues

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 as 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

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 cause failure of bandwidth settings deployment on IOMs in fabric mode when an imported template is used.

Tracking number

117251

Known issues

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 PowerEge 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	<p>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.</p> <p>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.</p>
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	<p>Users may be unable to log in to OME-Modular Web interface after performing the following operations on a 240 GB MM:</p> <ol style="list-style-type: none">1. Downgrading the MM firmware to 1.00.01 from 1.10.10 or 1.10.20.
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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	Downgrading the OME-Modular firmware to 1.00.01 is not recommended. 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, <code>racresetcfg</code> in each module.
Systems affected	All systems supported in this release, with 240 GB 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 or later

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, <code>10.10.10.10:1234</code> , 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 or later.
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
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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

- 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

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-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.

Environment and system requirements

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

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

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.

Important Notes

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 1.10.00, 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.

OpenManage Enterprise Modular 1.00.10

Resolved issues

Bandwidth and port details

Corrected the bandwidth and port details for MX5108n and MX9116n IOMs displayed in the OME-Modular Help for **Fabrics Topology**.

Tracking number

102685

Single Sign-On with CSR

Fixed an issue to facilitate working of OME-Modular to iDRAC Single Sign-On (SSO) with CSR-generated certificates.

Tracking number

106477

Storage sled and storage IOM updates

Fixed an issue to enable update of storage sleds when scheduled with storage IOMs (PowerEdge MX5000s, Dell EMC MXG610s) as a single job during a compliance report-based update.

Tracking number

107979

Root password application

Fixed an issue to apply the root password to compute sleds in slots when the deploy and configuration job is run.

Tracking number

108964

FCoE virtual MAC addresses

Fixed an issue that was causing FCoE virtual MAC addresses to display improperly under certain conditions.

Tracking number

108238

OME-Modular unresponsive

Fixed an issue that was causing OME-Modular to become unresponsive and display an error message.

Tracking number

107168

HTTPS firmware catalog share

Fixed an issue that was displaying an error message while creating an HTTPS firmware catalog share.

Tracking number

103960

Compute sled firmware updates in member chassis

Fixed an issue that was causing failure of firmware updates for compute sleds in a member chassis using the Dell Online Repository method.

Tracking number

108884

Compute sled updates

Fixed an issue that was causing failure of updates to compute sleds in member chassis, using Validated Stack Repository method.

Tracking number

108947

Failure of compute sled updates in MCM

Fixed an issue that was causing failure of updates of some compute sleds in MCM.

Tracking number

107401

Firmware update job status

Fixed an issue that was causing the status of OME-Modular firmware update job to be displayed as "Completed" even when it failed.

Tracking number

110520

Single management module connectivity

Fixed an issue that was causing single management module to lose connectivity when the external port link changed.

Tracking number

110421

Known issues

Unable to restore network configuration attributes

Description	The restore operation does not restore the network configuration attributes— Network Auto Negotiation , Network Speed , and Duplex Mode .
Workaround	Log in to OME–Modular, go to Chassis Settings > Network and configure the network settings— Network Auto Negotiation , Network Speed , and Duplex Mode .
Systems affected	All system supported by this release.
Tracking number	107884

Fault list does not contain HWC2131

Description	The hardware log contains the entry HWC2131 "The Management Module cannot communicate with the right control panel because of internal issues". However, this error message is not displayed on the Chassis Fault List on the dashboard. This issue can occur during the management module firmware update.
Workaround	If the hardware log message HWC2131 was generated during a management module firmware update, ignore the message.
Systems affected	PowerEdge MX7000
Tracking number	108458

Chassis KVM output may be lost after AC power outage in chassis

Description	If the compute sleds have NVDIMMs and if AC power is lost while the NVDIMM is in read or write mode, the KVM output may not be restored when the AC power is restored.
Workaround	Reset the management module twice or perform failover on the management module twice using OME–Modular web interface or RACADM. To perform a reset using the OME–Modular web interface, go to Home > Troubleshoot > Reset Management Module .
Systems affected	PowerEdge MX7000
Tracking number	108499

ISL Cabling Diagram not shown correctly in Microsoft Edge and Internet Explorer

Description	During fabric creation, a diagram of the selected Fabric Design is displayed. The diagram indicates the type of IOMs used and ISL cabling between them. Internet Explorer and Edge do not display these diagrams correctly and may display black shapes instead of the correct ISL cabling.
Workaround	Use Chrome or Firefox. If you cannot use either of these browsers, the fabric creation workflow provides a printable summary of the defined fabric that you can use to view the image correctly.
Systems affected	MX9116n, MX7116n
Tracking number	107300

Unable to view details of template created from a reference device

Description	If you create a template using a reference device and that device is then removed from the chassis, you cannot view all the attributes captured in that template through the OME–Modular web interface. The template can still be deployed or used normally.
Workaround	To view the template attributes on the web interface, wait for the chassis inventory to be refreshed. The inventory is refreshed automatically every 30 minutes. You can also manually refresh the inventory using the OME–Modular web interface.
Systems affected	PowerEdge MX7000, PowerEdge MX740c, PowerEdge MX840c
Tracking number	107891

Firmware catalog may be deleted automatically after editing

Description	If you enter incorrect information while editing a firmware catalog, the catalog may be deleted from OME–Modular.
Workaround	If you want to modify the catalog source or repository location, it is recommended that you create a catalog instead of editing the existing catalog. Editing the existing catalog is prone to errors.
Systems affected	PowerEdge MX7000
Tracking number	106989

Error displayed when creating a local user account under certain conditions

Description	<p>You may encounter the error, <code>Error - User could not be saved</code> when performing the following tasks:</p> <ol style="list-style-type: none">1. Create a new local user account in OME–Modular.2. Update the new user account name without changing the password.3. Delete the user account.4. Create a new local user account using the original account name.
Workaround	<ol style="list-style-type: none">1. Always update the user account password when modifying the user account name.2. Run the <code>racadm racresetcfg</code> command to restore OME–Modular to factory defaults.3. You can use the same username with different cases as user account names are case insensitive. For example: "test01" and "Test01"
Systems affected	PowerEdge MX7000
Tracking number	105270

Cannot perform a graceful shut down of all compute sleds

Description	When using the option to select Across all pages on the Compute Devices grid, the Power Off (Graceful) option is not displayed.
Workaround	<ul style="list-style-type: none">• Select compute sleds individually and perform a graceful power off operation.• Filter the All Devices page to view only compute sleds and then perform a power off operation.
Systems affected	PowerEdge MX740c, PowerEdge MX840c
Tracking number	108133

Check Compliance operation fails to run and no error message is displayed

Description	Even if a compliance report contains devices that you do not have permission to manage, the Check Compliance button is still enabled. When you click Check Compliance , no error message is displayed but the compliance report is not updated.
Workaround	Ensure that you have the permission to manage all devices contained within a compliance report before running a compliance check.
Systems affected	All systems supported by this release.
Tracking number	108258

Unable to deploy chassis profile after removing syslog or SNMP destinations

Description	If you have administrator privileges and export a chassis profile and attempt to deploy the profile after removing the syslog or SNMP destination, the deployment fails.
Workaround	Do not delete any syslog or SNMP destinations manually from an exported chassis profile. Instead, let the destination entry be blank.
Systems affected	PowerEdge MX7000
Tracking number	104215

Unable to edit firmware catalog in specific scenarios

Description	When an existing firmware catalog is updated using Configuration > Firmware > Catalog Management > Edit to point to a catalog with incorrect repository credentials, OME-Modular does not refresh the catalog information.
Workaround	Remove the catalog and add a new one with the desired repository details.
Systems affected	PowerEdge MX7000
Tracking number	106990

Unable to restore iDRAC from the lead chassis

Description	The iDRAC restore operation performed from the lead chassis fails.
Workaround	Retry the restore operation to successfully restore the configuration and firmware.
Systems affected	All system supported by this release.
Tracking number	108114

Unable to export chassis profile using hostname or FQDN

Description	When you export a profile using hostname or FQDN of the network share address, the export profile task fails with the message <code>Kindly provide valid input values. Check help for details..</code>
Workaround	Use the IP address of the share server instead of hostname or FQDN .
Systems affected	PowerEdge MX7000
Tracking number	108459

Request to join a group fails when using Microsoft Edge or Internet Explorer

Description	If you use Microsoft Edge or Internet Explorer to initiate an action to join a multi-chassis group, the action may fail. OME–Modular loads portions of the application as they are needed. Environmental factors such as network disruption, web browser choice, and version, may disrupt that process.
Workaround	If the OME–Modular web interface is behaving unexpectedly, these troubleshooting steps address most issues: <ul style="list-style-type: none">• Refresh the web browser to reload the application.• Verify network connection stability.• Use Chrome or Firefox.
Systems affected	PowerEdge MX7000
Tracking number	107147

Devices may not appear after being moved from the lead chassis to a member chassis

Description	In a multi-chassis management (MCM), if you move a device from the lead chassis to one of the member chassis, the change may not be displayed immediately in the lead chassis inventory. This issue does not occur when moving a device between member chassis, or from a member chassis to the lead chassis.
Workaround	Wait for the scheduled automatic inventory refresh to complete. This refresh happens every 30 minutes.
Systems affected	All systems supported by this release.
Tracking number	108286

Set Proxy operation fails when using a hostname ending with a numeric character

Description	While setting the proxy server, if the hostname ends with a numeric character, the proxy settings cannot be saved. For example, setting the proxy server to <i>hostname123</i> fails.
Workaround	Use either FQDN or IP address for the proxy server address.
Systems affected	PowerEdge MX7000
Tracking number	109454

Using special characters while setting iDRAC password causes error

Description	Using the special character, ^, while setting an iDRAC password from Devices > Compute > View Details > Settings > Management page, causes an error.
Workaround	Log in to the iDRAC console to set the iDRAC password.
Systems affected	PowerEdge MX740c, PowerEdge MX840c
Tracking number	110940

Descriptive error not displayed when compute sled is in lockdown mode and VLAN settings are changed

Description	An error message is displayed when you try to change the VLAN setting on the Chassis > Overview > Hardware > Chassis Slots page when iDRAC is in lockdown mode. But, the error message does not describe the cause of the failure of the task.
Workaround	No action is required. A descriptive error message will be provided in a future update of OME - Modular.
Systems affected	PowerEdge MX840c, PowerEdge MX740c
Tracking number	112537

Last run date for some jobs may be displayed incorrectly after firmware update

Description	After firmware update, some jobs may display the last run date as "1970". The issue is only seen when NTP servers are configured as the time source. After a firmware update, the public network takes some time to get established, which delays synchronizing the system time with the NTP server. Any jobs run before the system time synchronizes to the NTP server, display the year as 1970.
Workaround	The date and time are fixed automatically when the next job is run.
Systems affected	PowerEdge MX7000
Tracking number	115338

Unable to start MM Update when IOMs or storage components are selected as chassis components while updating firmware from baselines

Description	IOMs or storage device update does not start when IOMs/Storage devices are selected as chassis components while performing a Firmware Update from a baseline.
Workaround	Select the IOMs/Storage components as individual devices and retry the firmware update.
Systems affected	All Systems supported by this release.
Tracking number	115635

IOM firmware updates fail intermittently when IOMs are selected as part of chassis component while updating firmware from baselines

Description	IOM updates can fail when IOMs or storage devices are selected as part of the chassis component using the Compliance Report Update method.
Workaround	Selecting the IOMs as individual devices and retry the firmware update.
Systems affected	All Systems supported by this release.
Tracking number	115639

Multiple Firmware Update jobs start for IOMs or storage devices when IOMs or storage devices are selected while updating firmware from baselines

Description	Multiple firmware update jobs are started when IOMs or storage devices are selected while updating firmware from a baseline.
Workaround	When the firmware update fails, select the IOMs or storage device as individual devices and retry the firmware update.
Systems affected	All Systems supported by this release.
Tracking number	115640

OME - Modular slows down while deploying many compute sleds in 20 chassis setup

Description	The OME - Modular web interface becomes slow while deploying more than 150 compute sleds in 20 chassis MCM setup. The sluggishness is due to high CPU consumption from data synchronization when an alert storm or multiple inventory refresh jobs occur.
Workaround	Once the synchronization ends, the system recovers automatically.
Systems affected	PowerEdge MX7000
Tracking number	118264

PowerEdge MX 10GbT PTM is not displayed on chassis Group Topology page

Description	On the Multi-chassis Group Topology page, the graphical representation of the PowerEdge MX 10GbT Passthrough Module is not displayed owing to errors in identifying the correct IOM image.
Workaround	There is no workaround for this issue. However, the MCM Topology is not impacted.
Systems affected	PowerEdge MX 10GbT Passthrough Module
Tracking number	118761

MCM Lead chassis does not display alerts from chassis components

Description	If many actions or criteria are used in an alert policy, alerts may not be seen on the lead chassis.
Workaround	Refine the alert policy criteria and reduce the number of actions that are triggered on the lead chassis.
Systems affected	All systems supported by this release.
Tracking number	117677

Bandwidth settings are not deployed on IOMs in fabric mode when an imported template is used

Description	When a template is exported from a chassis, it does not include the attributes which are needed for a switch to set bandwidth settings. Hence, when a template is imported into chassis B from chassis A, the switch bandwidth settings from chassis A are not replicated in chassis B.
Workaround	Reconfigure the network switch settings manually instead of using an imported template.

Systems affected	All systems affected by this release
Tracking number	117251

Alerts are not received through SYSLOG, SNMP, or EMAIL after downgrading OME-Modular firmware

Description	Alerts policy configurations are deleted after downgrading the OME-Modular firmware to 1.00.01 from 1.00.10.
Workaround	Configure the alert policies after the firmware downgrade is completed.
Systems affected	All PowerEdge MX7000 systems, with user-configured alerts policies, where OME-Modular firmware is downgraded to 1.00.01 from 1.00.10.
Tracking number	121423

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 navigating to the console for the first time, a blinking cursor does not appear in the text fields. This is owing to a bug in Chrome. For details and current 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. This bug 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.
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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 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-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 actively developing IE. For alternatives, refer to the list of approved and supported browser versions.

Environment and system requirements

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 63
- Google Chrome version 64
- Mozilla Firefox version 57
- Mozilla Firefox version 58
- Microsoft EDGE
- Microsoft Internet Explorer 11
- Safari version 11

Installation

See the *Dell EMC OpenManage Enterprise - Modular Edition Version 1.00.10 for PowerEdge MX Chassis User's Guide* for the following information:

- Prerequisites
- Hardware and software requirements
- Installation and configuration

Downloading OME-Modular firmware

To download the latest OME-Modular firmware:

1. Go to dell.com/openmanagemanuals.
The **Enterprise Systems Management** page is displayed.
2. Click **Dell OpenManage Enterprise**.
The **Dell OpenManage Enterprise** page is displayed.
3. Click **Dell OpenManage Enterprise Modular Version 1.00.10 for Dell PowerEdge MX7000**.
The **Support for Dell OpenManage Enterprise-Modular Version 1.00.10 for Dell PowerEdge MX7000** page is displayed.
4. On the left panel, click **Drivers & downloads**.

Updating firmware in OME-Modular

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

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

Important Notes

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.

VLAN

When you configure non-default untagged or native VLAN for FCoE enabled interfaces, the configuration is accepted, but not applied to the hardware.

OpenManage Enterprise Modular 1.00.01

Resolved issues

Not applicable.

Known issues

Incorrect information for IOMs displayed in the Help for Fabrics Topology

Description	The port details for MX5108n and MX9116n IOMs, and the bandwidth mentioned in the OME–Modular Help for Fabric Topology are incorrect.
Workaround	N/A
Systems affected	All systems supported by this release
Tracking number	102685

Unable to restore network configuration attributes

Description	The restore operation does not restore the network configuration attributes— Network Auto Negotiation , Network Speed , and Duplex Mode .
Workaround	Log in to OME–Modular, go to Chassis Settings > Network and configure the network settings— Network Auto Negotiation , Network Speed , and Duplex Mode .
Systems affected	All system supported by this release.
Tracking number	107884

OME-Modular to iDRAC Single Sign-On may not work with CSR generated certificates

Description	The iDRAC has a limit of 2810 bytes for SSO server certificates. If the CSR-based server certificate exceeds 2810 bytes, OME–Modular cannot configure iDRACs in the chassis for Single Sign-On (SSO).
Workaround	If CSR generated certificates exceeding 2810 bytes are required then, use non-SSO based mode to log in to iDRAC.
Systems affected	PowerEdge MX740c, PowerEdge MX840c
Tracking number	106477

Fault list does not contain HWC2131

Description	The hardware log contains the entry HWC2131 "The Management Module cannot communicate with the right control panel because of internal issues". However, this error message is not displayed on the Chassis Fault List on the dashboard. This issue can occur during the management module firmware update.
Workaround	If the hardware log message HWC2131 was generated during a management module firmware update, ignore the message.
Systems affected	PowerEdge MX7000
Tracking number	108458

Unable to perform simultaneous firmware update of storage sleds and storage IOMs

Description	Sometimes, during a compliance report based update, if the firmware update of storage sleds is scheduled with storage IOMs (PowerEdge MX5000s, MXG610s), the update fail.
Workaround	Schedule separate jobs for storage sleds and SAS IOMs.
Systems affected	PowerEdge MX5016s, PowerEdge MX5000s, MXG610s
Tracking number	107979

Chassis KVM output may be lost after AC power outage in chassis

Description	If the compute sleds have NVDIMMs and if AC power is lost while the NVDIMM is in read or write mode, the KVM output may not be restored when the AC power is restored.
Workaround	Reset the management module twice or perform failover on the management module twice using OME–Modular web interface or RACADM. To perform a reset using the OME–Modular web interface, go to Home > Troubleshoot > Reset Management Module .

Systems affected MX7000
Tracking number 108499

Deployment and Configuration jobs fail with a root password update error

Description If a slot is configured with both Quick Deploy and a profile, and you insert a computer sled, the root password may not be applied. In such cases, the jobs fail with the following error: `Update root password failed to execute.`

Workaround Reset the iDRAC root password manually from the OME–Modular **Quick Deploy** page or from the **Settings** page of the affected compute sled.

Systems affected PowerEdge MX740c, PowerEdge MX840c
Tracking number 108964

ISL Cabling Diagram not shown correctly in Microsoft Edge and Internet Explorer

Description During fabric creation, a diagram of the selected Fabric Design is displayed. The diagram indicates the type of IOMs used and ISL cabling between them. Internet Explorer and Edge do not display these diagrams correctly and may display black shapes instead of the correct ISL cabling.

Workaround Use Chrome or Firefox. If you cannot use either of these browsers, the fabric creation workflow provides a printable summary of the defined fabric that you can use to view the image correctly.

Systems affected MX9116n, MX7116n
Tracking number 107300

Unable to view details of template created from a reference device

Description If you create a template using a reference device and that device is then removed from the chassis, you cannot view all the attributes captured in that template through the OME–Modular web interface. The template can still be deployed or used normally.

Workaround To view the template attributes on the web interface, wait for the chassis inventory to be refreshed. The inventory is refreshed automatically every 30 minutes. You can also manually refresh the inventory using the OME–Modular web interface.

Systems affected PowerEdge MX7000, PowerEdge MX740c, PowerEdge MX840c
Tracking number 107891

Incorrect FCoE virtual MAC address displayed

Description In certain scenarios, the FCoE virtual MAC address details may not be displayed correctly.

Workaround When using the Identity Pools feature, follow these guidelines to prevent duplicate addresses from being deployed. When using template deployment to assign virtual identities to a system, ensure the following:

- If deploying a template to a sled, use the OME–Modular web interface to reassign the template to the slot before removing the sled from the chassis. On the details page of the sled, the option **Associate Profile to Slot** makes the necessary change.
- If the template is not reassigned to the sled, the virtual identities associated with the sled are made available for reuse immediately after the sled is removed.
- The chances of duplicate identities being assigned decreases as the size of the virtual address pool grows. A larger pool of identities reduces the chance of redeployment.

Systems affected PowerEdge MX7000
Tracking number 108238

OME–Modular can become unresponsive and display an error message

Description If the page is partially loaded and is stuck for 10 minutes or more, the message, An application request timed out. Please contact your support representative if the issue persists., is displayed on the bottom right side of the page.

Workaround Log out, and log in again.

Systems affected PowerEdge MX7000
Tracking number 107168

Firmware catalog may be deleted automatically after editing

Description If you enter incorrect information while editing a firmware catalog, the catalog may be deleted from OME–Modular.

Workaround If you want to modify the catalog source or repository location, it is recommended that you create a catalog instead of editing the existing catalog. Editing the existing catalog is prone to errors.

Systems affected PowerEdge MX7000
Tracking number 106989

Error displayed when creating a local user account under certain conditions

Description You may encounter the error, Error - User could not be saved when performing the following tasks:

1. Create a new local user account in OME–Modular.
2. Update the new user account name without changing the password.
3. Delete the user account.
4. Create a new local user account using the original account name.

Workaround

1. Always update the user account password when modifying the user account name.
2. Run the `racadm racresetcfg` command to restore OME–Modular to factory defaults.
3. You can use the same username with different cases as user account names are case insensitive. For example: "test01" and "Test01"

Systems affected PowerEdge MX7000
Tracking number 105270

Error may be displayed while creating an HTTPS firmware catalog share

Description If you use an FQDN for the share address and select the **Certificate Check** option while creating an HTTPS firmware catalog, the error message, Error occurred while retrieving certificate information, is displayed.

Workaround Use an IP Address instead of an FQDN. The **Certificate Check** passes, and the expected FQDN listed is displayed during the certificate check.

Systems affected PowerEdge MX7000

Tracking number 103960

Cannot perform a graceful shut down of all compute sleds

Description	When using the option to select Across all pages on the Compute Devices grid, the Power Off (Graceful) option is not displayed.
Workaround	<ul style="list-style-type: none">• Select compute sleds individually and perform a graceful power off operation.• Filter the All Devices page to view only compute sleds and then perform a power off operation.
Systems affected	PowerEdge MX740c, PowerEdge MX840c
Tracking number	108133

Check Compliance operation fails to run and no error message is displayed

Description	Even if a compliance report contains devices that you do not have permission to manage, the Check Compliance button is still enabled. When you click Check Compliance , no error message is displayed but the compliance report is not updated.
Workaround	Ensure that you have the permission to manage all devices contained within a compliance report before running a compliance check.
Systems affected	All systems supported by this release.
Tracking number	108258

Unable to deploy chassis profile after removing syslog or SNMP destinations

Description	If you have administrator privileges and export a chassis profile and attempt to deploy the profile after removing the syslog or SNMP destination, the deployment fails.
Workaround	Do not delete any syslog or SNMP destinations manually from an exported chassis profile. Instead, let the destination entry be blank.
Systems affected	PowerEdge MX7000
Tracking number	104215

Unable to edit firmware catalog in specific scenarios

Description	When an existing firmware catalog is updated using Configuration > Firmware > Catalog Management > Edit to point to a catalog with incorrect repository credentials, OME–Modular does not refresh the catalog information.
Workaround	Remove the catalog and add a new one with the desired repository details.
Systems affected	PowerEdge MX7000
Tracking number	106990

Unable to restore iDRAC from the lead chassis

Description	The iDRAC restore operation performed from the lead chassis fails.
Workaround	Retry the restore operation to successfully restore the configuration and firmware.

Systems affected All system supported by this release.
Tracking number 108114

Unable to export chassis profile using hostname or FQDN

Description When you export a profile using hostname or FQDN of the network share address, the export profile task fails with the message `Kindly provide valid input values. Check help for details..`

Workaround Use the IP address of the share server instead of hostname or FQDN .

Systems affected MX7000

Tracking number 108459

Request to join a group fails when using Microsoft Edge or Internet Explorer

Description If you use Microsoft Edge or Internet Explorer to initiate an action to join a multi-chassis group, the action may fail. OME–Modular loads portions of the application as they are needed. Environmental factors such as network disruption, web browser choice, and version, may disrupt that process.

Workaround If the OME–Modular web interface is behaving unexpectedly, these troubleshooting steps address most issues:

- Refresh the web browser to reload the application.
- Verify network connection stability.
- Use Chrome or Firefox.

Systems affected PowerEdge MX7000

Tracking number 107147

Firmware update for compute sleds in a member chassis fails when using the Dell online repository

Description In a multi-chassis environment, if you use the Dell online repository, firmware update of compute sleds in member chassis fails.

Workaround Use a single DUP update method from the lead chassis or perform the updates from the member chassis using a PDK catalog.

Systems affected All systems supported by this release.

Tracking number 108884

Firmware update for compute sleds in member chassis fails when using validated stack repository method

Description In a multi-chassis environment, if you use a validated stack repository from the lead chassis, firmware update of compute sleds in member chassis failed.

Workaround Use a single DUP update method from the lead chassis or perform the updates from the member chassis using a PDK catalog.

Systems affected All systems supported by this release.

Tracking number 108947

Devices may not appear after being moved from the lead chassis to a member chassis

Description	In a multi-chassis management (MCM), if you move a device from the lead chassis to one of the member chassis, the change may not be displayed immediately in the lead chassis inventory. This issue does not occur when moving a device between member chassis, or from a member chassis to the lead chassis.
Workaround	Wait for the scheduled automatic inventory refresh to complete. This refresh happens every 30 minutes.
Systems affected	All systems supported by this release.
Tracking number	108286

Firmware update of compute sleds fails

Description	If you schedule a firmware update job for the compute sleds and the management module together, the firmware update for compute sleds may fail. In a multi-chassis scenario, the management module and sled firmware update actions run in parallel. The management module firmware update causes the management module to reboot, which causes the the sled firmware update to fail.
Workaround	Perform firmware update for management module and the compute sleds separately.
Systems affected	All systems supported by this release.
Tracking number	108123

Set Proxy operation fails when using a hostname ending with a numeric character

Description	While setting the proxy server, if the hostname ends with a numeric character, the proxy settings cannot be saved. For example, setting the proxy server to <i>hostname123</i> fails.
Workaround	Use either FQDN or IP address for the proxy server address.
Systems affected	PowerEdge MX7000
Tracking number	109454

Emails not sent as part of alert policy on FIPS enabled systems

Description	If SMTP settings are configured with SSL enabled on a FIPS-enabled system, mails are not sent as part of an alert policy.
Workaround	To receive emails, disable SSL for SMTP when FIPS mode is enabled.
Systems affected	PowerEdge MX7000
Tracking number	109796

Deployment and configuration jobs not triggered for newly inserted servers

Description	When Quick Deploy is configured for all chassis slots, the Deployment and Configuration jobs are not triggered for newly-inserted servers.
Workaround	After inserting servers, manually refresh the inventory through the OME–Modular web interface (Devices > Chassis > blue refresh icon).

Systems affected PowerEdge MX7000, PowerEdge MX740c, PowerEdge MX840c
Tracking number 109724

Unable to migrate profile after detaching profile

Description After detaching a profile from a slot and attempting to migrate the profile to a different server, the following error message is displayed: `Unable to migrate profile because deployment in progress.`

Workaround Select the **Edit Profile** option on the server where the profile is detached and save the profile settings. This detaches the profile from the server and makes it available for migration.

Systems affected PowerEdge MX740c, PowerEdge MX840c
Tracking number 109879

Unable to log in to the chassis if the password contains certain special characters

Description When the user account password contains special characters such as "+?>-}|,[:]/=<:{|^~", you may be unable to log in using SSH, Serial, or KVM. You can log in using the web interface and remote RACADM.

Workaround Do not use special characters in account passwords.

Systems affected PowerEdge MX7000
Tracking number 110160

Lead chassis displays incorrect OME–Modular version for member chassis in domain-related APIs

Description The lead chassis shows incorrect OME–Modular version for member chassis after upgrading the member chassis to the latest OME–Modular firmware using the following APIs:

- `/api/ManagementDomainService/Domains`
- `/api/ManagementDomainService/PendingDomains`
- `/api/ManagementDomainService/DiscoveredDomains`

Workaround

- Remove and add member to the group again.
- Use the web interface to see the OME–Modular version on the member chassis.

Systems affected PowerEdge MX7000
Tracking number 109587

Firmware updates for compute sleds fail in multi-chassis environment

Description While updating compute sleds in MCM, the update sometimes fails for one of the compute sleds with the following message: `Internal Error Occurred.`

Workaround Retry the updates on the failed compute sled.

Systems affected All systems supported by this release.
Tracking number 107401

Firmware update job status displayed incorrectly

Description	OME–Modular firmware update job status may be displayed as Completed though it failed. This issue affects only OME–Modular update.
Workaround	Retry the update.
Systems affected	All systems supported by this release
Tracking number	110520

Using special characters while setting iDRAC password causes error

Description	Using the special character, ^, while setting an iDRAC password from Devices > Compute > View Details > Settings > Management page, causes an error.
Workaround	Log in to the iDRAC console to set the iDRAC password.
Systems affected	PowerEdge MX740c, PowerEdge MX840c
Tracking number	110940

Single MM chassis loses connectivity after external port link change

Description	Single MM chassis that is connected to a switch, which does not emit LLDP, loses connectivity if the link state changes.
Workaround	<ol style="list-style-type: none">1. Enable LLDP on connected switch.2. Install a second MM.3. Reset through chassis KVM, serial port RACADM, or physically reseal the MM.
Systems affected	All systems supported by this release.
Tracking number	110421

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 navigating to the console for the first time, a blinking cursor does not appear in the text fields. This is owing to a bug in Chrome. For details and current 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. This bug 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 used for certain selection inputs may not respond to arrow key presses. This issue is currently 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 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-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 actively developing IE. For alternatives, refer to the list of approved and supported browser versions.

Environment and system requirements

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 63
- Google Chrome version 64
- Mozilla Firefox version 57
- Mozilla Firefox version 58
- Microsoft EDGE
- Microsoft Internet Explorer 11
- Safari version 11

Installation

See the *Dell EMC OpenManage Enterprise - Modular Edition Version 1.00.01 for PowerEdge MX Chassis User's Guide* for the following information:

- Prerequisites
- Hardware and software requirements
- Installation and configuration

Downloading OME-Modular firmware

To download the latest OME-Modular firmware:

1. Go to dell.com/openmanagemanuals.
The **Enterprise Systems Management** page is displayed.
2. Click **Dell OpenManage Enterprise**.
The **Dell OpenManage Enterprise** page is displayed.
3. Click **Dell OpenManage Enterprise Modular Version 1.00.01 for Dell PowerEdge MX7000**.

The **Support for Dell OpenManage Enterprise-Modular Version 1.00.01 for Dell PowerEdge MX7000** page is displayed.

4. On the left panel, click **Drivers & downloads**.


Updating firmware in OME-Modular

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

To update the firmware using the Individual package method:

1. Download the DUP from the dell.com/support/drivers.
2. On the OME-Modular web interface, navigate **Devices > Chassis** and select the chassis for which you want to update the firmware.
3. Click **Update Firmware**.
The **Select Firmware Source** window is displayed.
4. Select the **Individual package** option and click **Browse** to navigate to the location where you have downloaded the DUP and click **Next**. Wait for the comparison report. The supported components are displayed..
5. Select the required components, for example: OME-Modular, and click **Update** to start the firmware update.
You can schedule the update process to start at the time you want.
6. Select the required components, for example: OME Modular, and click **Update** to start the firmware update.
7. Navigate to the **Monitor > Jobs** page to view the job status.

 **NOTE:** The console is inaccessible during and after the OME-Modular update process.

Catalog-based compliance method

To update the firmware using the catalog-based method:

1. Download the DUP from the dell.com/support/drivers.
2. Use the Dell Repository Manager (Repository Manager) to create the `catalog.xml` file.
3. Place the `catalog.xml` that you created using Repository Manager, in a shared location.
4. Navigate to the **Configuration Firmware** page to create the catalog and baseline.
5. On the OME-Modular web interface, navigate to the **Devices > Chassis** page.
6. Click the **Update Firmware**.
The **Select Firmware Source** window is displayed.
7. Select the **Baseline** option and select the required baseline from the drop-down.
8. Select the OME-Modular component from the comparison report.
The supported components are displayed.
9. Select the required components, for example: OME-Modular, and click **Update** to start the firmware update.
10. Navigate to the **Monitor > Jobs** page to view the job status.

 **NOTE:** Click **Configuration > Firmware > Catalog Management > Add** to download the catalog from the dell.com/support.

For more information, see the Dell EMC OpenManage Enterprise-Modular Edition Version 1.00.01 for PowerEdge MX 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 **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 2. 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

 **NOTE:** If you do not have an active Internet connection, you can find contact information about 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 or region and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues, see <https://www.dell.com/contactdell>.

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.