

Dell EMC OpenManage Enterprise Power Manager Version 3.0 Release Notes

This document describes the new features, changed features, resolved issues, known issues, and limitations in Dell EMC OpenManage Enterprise Power Manager.

Current Release Version: 3.0

Release Type: Major (MA)

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Revision history

This section provides a description of document changes.

Table 1. Document Revision history

Document Revision	Date	Description of changes
A00	May 2022	Initial release

Product description

Dell EMC OpenManage Enterprise Power Manager is a plugin to the Dell EMC OpenManage Enterprise (OME) console and uses fine-grained instrumentation to provide increased visibility to power consumption, system anomalies, and resource utilization on Dell EMC servers. Also, Power Manager supports virtual machine monitoring, and alerts and reports about power and thermal events in servers, chassis, and custom groups consisting of servers and chassis. This reporting enables increased control, faster response times, greater accuracy, and broader decision-making intelligence than is otherwise possible.

Table 2. Newly supported devices in OpenManage Enterprise Power Manager 3.0

Model	Model numbers	Supported configurations
PowerEdge	R250	<ul style="list-style-type: none">• R250 and T150—Thermal• R350 and T350—Power and thermal• T550—Power, thermal, policy, CPU, Input Output utilization, and memory utilization
VxRail	T150	
	R350	
	T350	
	T550	
	Dell EMC VxRail E660	
	Dell EMC VxRail E660F	

Table 2. Newly supported devices in OpenManage Enterprise Power Manager 3.0

Model	Model numbers	Supported configurations
	Dell EMC VxRail E660N	
	Dell EMC VxRail P670F	
	Dell EMC VxRail V670F	
	Dell EMC VxRail S670	
	Dell EMC VxRail P670N	

For more information about the user documentation, see the OpenManage Enterprise Power Manager product support page on <https://www.dell.com/support>.

New features

The following table describes the features and enhancements that are introduced with OpenManage Enterprise Power Manager 3.0.

Table 3. New features in OpenManage Enterprise Power Manager 3.0

Functional area	Feature description	Summary of benefits
Virtual machine (VM) groups	Manage virtual machine groups	Create, edit, and delete virtual machine (VM) groups.
Devices and groups	Energy consumption cost	View energy consumption cost for VMs, VM groups, devices, and groups.
Devices and groups	Carbon emission	View carbon emission for devices and groups.
Manage devices	Automatically create physical hierarchy	Automatically create physical hierarchy for unplaced devices that is based on location data in the device console.
Manage devices	Support for new devices	Added support for new devices.
Monitor servers	Compare server usage metrics	Analyze and compare the server utilization metrics—CPU, I/O, memory bandwidth, and system usage.
Monitor idle servers	Idle servers	Identify and view idle servers.
Manage policies	Power cap threshold	Generate alerts for devices and groups when power consumption approaches the power cap.
Manage Emergency Power Reduction (EPR)	Staggered EPR removal	Stagger power on of devices when EPR is disabled.
Manage devices	Update device location	Update the device location in the device console as per the data in Power Manager.
Reports	Reports	Support for new custom and integrated reports.
VMs	Manage VMs	View information about power and vCPU usage of VMs associated with a device.
Manage Emergency Power Reduction (EPR)	Manage EPR	Enable force shutdown of devices while enabling EPR.
Metrics	Metric information	View new metrics of PowerEdge servers.
Manage Emergency Power Reduction (EPR)	Liquid Cooling System (LCS)	Added support for LCS Event-triggered EPR and alerts.

Table 3. New features in OpenManage Enterprise Power Manager 3.0 (continued)

Functional area	Feature description	Summary of benefits
VMs and VM groups	Graphs of VMs and VM groups	View minimum and maximum power consumption graphs of virtual machines and virtual machine groups.
Metrics	Power cap value in graphs	View the power cap value that is applied on the device by power policy or EPR for a specified duration.
Metrics	Enlarged view of a graph	Select a section of the graph to zoom. For a simultaneous view of all the metrics at a specific time, hover over one of the graphs.
Dashboard	OpenManage Enterprise dashboard	Add groups to the OpenManage Enterprise dashboard

For more information about the user documentation, see the OpenManage Enterprise Power Manager product support page on <https://www.dell.com/support>.

Resolved issues

Table 4. Resolved issues in OpenManage Enterprise Power Manager 3.0

Issue ID	Functional area	Description
Not available	Manage groups	For Power Manager: Power Headroom Report for Physical Groups , the power value considered for calculation of stranded power is the most recent metric instead of the maximum power value for the selected report duration.
Not available	Manage groups	By default, the devices that are part of a physical group are automatically added to Power Manager as individual devices and as a part of the group. When you log in as a Device Manager with access to this physical group, you can remove devices from the Individual Devices tab, but cannot add the same devices back to the Individual Devices tab. However, you can view the devices in the All Monitored Devices list, since they are part of the group, and there is no data loss of that device.
Not available	Upgrade	After upgrading to OpenManage Enterprise version 3.6, discovery and inventory jobs run automatically, and if Redfish protocol is available for a device, the Redfish protocol takes precedence over WS-Man protocol and all operations for that device happen through Redfish protocol. And, Power Manager-specific capabilities are not supported for Redfish capable devices until Power Manager is upgraded to 2.0. Hence, devices that are Redfish capable are removed from Power Manager groups.
Not available	Scope-based access control	A Device Manager user can view details of all the Virtual Machines that are monitored in Power Manager through REST API.
Not available	Manage groups	When you import a CSV file with more than 100 groups and devices, the group creation is successful, but the association of devices to the groups may fail, with the following error message on the Jobs page under Physical Group CSV Import Task job: Unable to complete the action because the value entered for GroupId is invalid.
Not available	Power Distribution Unit (PDU)	When you log in to Power Distribution Units (PDUs) with wrong credentials, an alert with: <div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;"> OID : .1.3.6.1.6.3.1.1.5 specific trap ID: 0 generic trap ID: 5 </div> is generated as an unknown trap in OpenManage Enterprise.

Table 4. Resolved issues in OpenManage Enterprise Power Manager 3.0 (continued)

Issue ID	Functional area	Description
Not available	Manage groups	You can delete a physical group even if the EPR is applied on the group.
Not available	Alerts	Alerts are not generated in OpenManage Enterprise when the configured thresholds are violated on servers.
Not available	Alerts	Alerts are not generated in OpenManage Enterprise when the configured thresholds are violated on chassis.
Not available	Alerts	False critical alert is generated in OpenManage Enterprise versions 3.6.x even when the temperature value of monitored group is in the normal temperature range.
Not available	Metrics	In the Metrics and Monitoring History section, if you clear the selection of any metric type (maximum, average, and minimum), and place your cursor on the graph, the tooltip displays incorrect data.
212224	Virtual machines	In OpenManage Enterprise version 3.8 and Power Manager 2.0, metric information of virtual machines is not retrieved by using REST API.
212380	Console and plugins	When a device that is also monitored in OpenManage Enterprise CloudIQ Plugin is added again to Power Manager, the metric information is retained even though Delete Power Manager data is configured to delete metric data from Power Manager.

Known issues

Table 5. Known issues in OpenManage Enterprise Power Manager 3.0

Issue ID	Functional area	Description	Workaround or Resolution
Not available	Emergency Power Reduction (EPR)	When you are trying to apply EPR on a device, the EPR operation may fail and there is an entry in the Audit Logs .	<p>Ensure that all the following conditions are met:</p> <ul style="list-style-type: none"> There is at least one device in the group that is eligible for applying EPR. Throttle option is applicable for the following devices: <ul style="list-style-type: none"> If the device is a server, then iDRAC Enterprise license is applied. If the device is PowerEdge M1000e or PowerEdge MX7000 chassis. Shutdown option is applicable only for servers.
Not available	Console and plugins	After rebooting OpenManage Enterprise, if you perform any plug-in lifecycle-related actions for Power Manager, the job is initiated in the back-end but you still see the Console and Plugins page. And, the following message is displayed after some time: <i>This page isn't working.</i>	Wait for some time, and view the status. The plugin lifecycle-related action is completed successfully.
Not available	Policies	For an MX7000 chassis, the power cap value is displayed as same as the upper bound value. When you manually change the power cap percentage, the value is not updated and even if you change the value, the percentage is not updated.	Provide the power cap value, and save the policy. The policy imposes the specified power cap value on the selected devices or groups.

Table 5. Known issues in OpenManage Enterprise Power Manager 3.0 (continued)

Issue ID	Functional area	Description	Workaround or Resolution
Not available	Policies	Events are not generated for the following combination of temperature threshold violations: <ul style="list-style-type: none"> • Lower Warning to Upper Warning • Lower Critical to Upper Critical • Upper Warning to Lower Warning • Upper Critical to Lower Critical 	Provide realistic warning and critical values so that there are no immediate alert generating temperature changes.
Not available	Manage groups using REST API	When you try to remove a device that is part of multiple groups using the REST API, then an error message is displayed.	To remove a device that is part of multiple groups, remove the device from the group in OpenManage Enterprise. The changes are automatically reflected in Power Manager.
Not available	Manage groups	When devices are simultaneously added to and removed from a static group through OpenManage Enterprise, there are multiple entries of this update in the Audit Logs and Alert Log .	
Not available	Manage settings using REST API	When you change the power and temperature units in Power Manager through REST APIs and check for the unit change updates in UI, the updates are not reflected on the UI.	To view the updates on the UI after changing the power and temperature units through REST APIs, refresh the browser.
Not available	Discovery	When you rediscover a device or an inventory job is in progress in OpenManage Enterprise, the following error message is displayed: <code>Value entered for id is invalid</code>	Add the devices in Power Manager after the discovery or inventory job is completed.
Not available	Manage groups	After creating a physical group, you may not see Create New Physical Group , Edit Group , Manage Rack , Delete Group , or Attributes options when you right-click any group.	As a workaround, wait for some time or refresh the page, and then right-click the group. All the relevant options are displayed.
14527	Online help	The search results are not displayed in online help for the Japanese language.	<p>To view the devices that are Redfish capable after upgrading to Power Manager version 2.0:</p> <ol style="list-style-type: none"> 1. Run Inventory in OpenManage Enterprise. 2. Click the Refresh Power Manager capabilities option on the Power Manager Devices page in Power Manager.
Not available	Power Distribution Unit (PDU)	If you search for a PDU device in the global search of OpenManage Enterprise when Power Manager is disabled, you can still view the PDU link in the search. However, the PDU devices are not visible if Power Manager is disabled. Hence, after clicking the PDU link, you are redirected to the Devices page.	
209489	Upgrade	Appliance upgrade time might be between 1–10 hours depending on the number of devices being monitored by Power Manager.	
230456	Virtual Machines	When a VM is migrated from one hypervisor to another, the VM performance report—integrated and	Before migrating the VMs, ensure that you run the reports.

Table 5. Known issues in OpenManage Enterprise Power Manager 3.0 (continued)

Issue ID	Functional area	Description	Workaround or Resolution
		custom—displays only the data that is collected after the migration.	To view the VM metrics, use the REST API: /api/MetricService/Metrics
230262	Virtual Machines	When a VM is migrated from one hypervisor to another, the VM and server power metrics on the View Metrics page are partially displayed.	To view the VM and server power metrics, use the REST API: /api/MetricService/Metrics

Limitations

Table 6. Limitations in OpenManage Enterprise Power Manager 3.0

Functional area	Limitation
Data retrieval	Data that is retrieved through WS-Man and Redfish protocols differ slightly due to the protocol designs.
Rack space capacity	When you add a device in a Rack physical group, the minimum size you can allocate for a device is 1U. In a PowerEdge C-Series platform, you can accommodate two servers in 1U space. Hence, the space capacity calculations are not accurate when C-Series platform servers are added to a Rack physical group.

Environment and system requirements

For the complete list about supported devices, protocols, hardware, and web browsers, see *Dell EMC OpenManage Enterprise Power Manager User's Guide* available at <https://www.dell.com/support>.

Installation and upgrade considerations

Installation instructions

To monitor power and thermal data for devices or groups, install Power Manager plugin or extension on OpenManage Enterprise.

 **NOTE:** Installing a plugin on **OpenManage Enterprise** restarts the appliance services.

For information about installing Power Manager, see Dell EMC OpenManage Enterprise Power Manager User's Guide.


Upgrade instructions

Ensure that you are using OpenManage Enterprise version 3.9.

To upgrade to Power Manager version 3.0 from Power Manager version 2.0, do the following:

1. On the **Console and Plugins** page, click the refresh icon in the **Check for Updates** section.
To go to the **Console and Plugins** page, in OpenManage Enterprise, click **Application Settings > Console and Plugins**.
Power Manager version 3.0 is now available for update.

2. Upgrade to Power Manager version 3.0


 **NOTE:** The settings that are configured in older version of Power Manager are retained in latest version of Power Manager.

Where to get help

The Dell Technologies Support site (<https://www.dell.com/support>) contains important information about products and services including drivers, installation packages, product documentation, knowledge base articles, and advisories.

A valid support contract and account might be required to access all the available information about a specific Dell Technologies product or service.

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.