OpenManage Enterprise Power Manager Version 3.4

Support Matrix

DELLTechnologies

Notes, cautions, and warnings

(i) **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.**

Contents

Revision history

This section provides a description of the document changes.

Table 1. Document Revision history

Document Revision	Date	Description of changes
A00	December 2024	Initial release
A01	January 2025	OpenManage Enterprise version update

About Power Manager

OpenManage Enterprise Power Manager is a plug-in to OpenManage Enterprise. It uses fine-grained instrumentation to provide increased visibility to power consumption, carbon emissions, system anomalies, and resource utilization on servers.

With Power Manager, you can efficiently:

● Monitor devices, static groups, physical groups, system profile, workload profile, virtual machines, and virtual machine groups.
● Receive alerts and generate reports about 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.
● Monitor device metrics using parallel coordinate visualization.

Power Manager leverages information from the OpenManage Enterprise console to deliver power reporting when used with the following devices and components:

● Devices—PowerEdge servers, non-Dell servers, chassis, Power Distribution Units (PDUs), and Uninterruptible Power Supply (UPS)
● Components—Graphics Processing Unit (GPU), Power Supply Unit (PSU), and Central Processing Unit (CPU)

Power Manager communicates with Integrated Dell Remote Access Controller (iDRAC), Chassis Management Controller, PDU, and UPS on managed devices to provide power management data and perform control policies.

With Power Manager, administrators can effortlessly identify areas for efficiency gains and cut wasteful costs.

Supported devices in Power Manager

Topics:

Supported Power Distribution Unit (PDU) device manufacturers

The following are the Power Distribution Unit (PDU) device brands that are supported in Power Manager:

- APC by Schneider Electric rack PDU 2G products that support rPDU2 SNMP OIDs .1.3.6.1.4.1.318.1.1.26
- Vertiv Geist rack PDUs—monitored and switched—that support deviceInfo SNMP OIDs .1.3.6.1.4.1.21239.5.2.1 and PDU SNMP OIDs .1.3.6.1.4.1.21239.5.2.3
- Dell PDUs—H98NW

Supported Uninterruptible Power Supply (UPS) device manufacturers

Smart UPS with SNMP interface version 1 and version 2 manufactured by APC by Schneider Electric.

Supported Graphics Processing Unit (GPU) card manufacturers

NVIDIA GPU cards for PowerEdge 14G, 15G, and 16G servers are supported in Power Manager. For more information about the supported models, see PowerEdge server GPU matrix.

Supported operating systems

Table 2. Supported operating system

Operating system	Supported versions
Microsoft Windows Hypervisors	- Microsoft Windows 2025 - Microsoft Windows 2022 - Microsoft Windows 2019
VMware ESXi	- ESXi 8.0 U1 - ESXi 8.0 U2 - ESXi 7.0 - ESXi 7.0 U1 - ESXi 7.0 U2 - ESXi 7.0 U3

Supported web browsers

Power Manager supports the following versions of web browsers:

- Mozilla Firefox 52 and later
- Google Chrome 58 and later
- Microsoft Edge version 41.16299 and later

Power Manager does not support the following:

- PowerEdge M1000e, PowerEdge VRTX, PowerEdge FX2, and PowerEdge FX2s chassis discovered with viewer credentials
- Servers with cabled Power Supply Units (PSUs)
- PowerEdge FM120x4
- Hypervisors with viewer credentials
- IPv6-only network environment

OpenManage Enterprise and plugins hardware requirements

The section provides recommended hardware requirements for OpenManage Enterprise running with and without plug-ins in small and large deployments. For more specific information about plug-in hardware requirements, see the User's Guide of the respective OpenManage Enterprise plug-in.

Maximum recommended hardware configuration

OpenManage Enterprise 4.3.x appliance is shipped with the maximum recommended hardware requirements to provide you with a hassle-free deployment and installation of the appliance and plug-ins respectively. However, if your environment does not require the maximum hardware configuration, see *Manage memory and CPU requirements based on deployment size* below to determine the appropriate hardware resources required for your specific requirements. The following table lists recommended hardware requirements for installing OpenManage Enterprise and all its plugins.

Table 3. Appliance default hardware configuration

Hardware	Configuration
RAM	64 GB
Processor cores	8
Hard drive space	830 GB [a]

Table 3. Appliance default hardware configuration

   a. ● OpenManage Enterprise appliance is configured with two VDs, each with an initial storage space of 415 GB. The primary VD is leveraged for the core application and database while the secondary VD is required for additional features and supporting plugins. However, even without the secondary VDs selected during deployment, the appliance can still boot up for TUI configuration using only the primary VHDX.

      ● Ensure that your hypervisor storage has enough free space to support the recommended virtual disk size of the appliance, and enough overhead to support snapshots and future expansion of the virtual disk.

      ● Ensure that the primary disk and the secondary disk are identical in size always.

Manage memory and CPU requirements based on deployment size

If your environment does not require the maximum hardware configuration, review the following table to determine the appropriate hardware resources required for your specific requirements.

Table 4. Large deployment where the maximum number of devices managed by OpenManage Enterprise is up to 8,000

OpenManage Enterprise appliance and plugins	Minimum RAM	Minimum cores
OpenManage Enterprise	32 GB	8
Additional requirements for each plug-in		
APEX AIOps Infrastructure Observability (formerly called as CloudIQ) (Default plug-in)	+4 GB	
Services (Default plug-in)	+8 GB	
Power Manager	+8 GB	
Update Manager	+1 GB	
OpenManage Enterprise Integration for VMware vCenter (OMEVV) ⓘ **NOTE:** OMEVV supports up to 4000 devices for the large deployment.	+5 GB	
Operations Manager (Integration for Microsoft SCOM) ⓘ **NOTE:** Operations Manager supports up to 5,000 devices for the large deployment.	+3 GB	
VMM and Configuration Manager (Integration for Microsoft SCVMM and MCM) ⓘ **NOTE:** Supports up to 1,000 devices.	+1 GB	
Total recommended hardware configuration with all plug-ins installed	64 GB	8 CPU cores

Table 5. Small deployment where the maximum number of devices managed by OpenManage Enterprise is up to 1,000

OpenManage Enterprise appliance and plugins	Minimum RAM	Minimum cores
OpenManage Enterprise	16 GB	4

OpenManage Enterprise appliance and plugins	Minimum RAM	Minimum cores
Additional requirements for each plug-in		
AIOps Infrastructure Observability (Default plug-in)	+2 GB	
Services (Default plug-in)	+8 GB	
Power Manager	+3 GB	
Update Manager	+1 GB	
OpenManage Enterprise Integration for VMware vCenter (OMEVV)	+5 GB	
Operations Manager (Integration for Microsoft SCOM)	+3 GB	
VMM and Configuration Manager (Integration for Microsoft SCVMM and MCM)	+1 GB	
Total recommended hardware configuration with all plug-ins installed	40 GB	4 CPU cores

Supported PowerEdge servers

Lists the supported PowerEdge servers.

(i) **NOTE:** PowerEdge 13G servers are no longer supported from Power Manager version 3.4.

PowerEdge 16G servers

- PowerEdge MX760c
- PowerEdge R660
- PowerEdge R660xs
- PowerEdge R6615
- PowerEdge R6625
- PowerEdge R760
- PowerEdge R760xa
- PowerEdge R760xd2
- PowerEdge R760xs
- PowerEdge R7615
- PowerEdge R7625
- PowerEdge R860
- PowerEdge R960
- PowerEdge T560
- PowerEdge T360
- PowerEdge R360
- PowerEdge T160
- PowerEdge R260

PowerEdge 15G servers

- PowerEdge MX750c
- PowerEdge R250
- PowerEdge R350
- PowerEdge R450
- PowerEdge R550
- PowerEdge R650
- PowerEdge R650xs
- PowerEdge R6515
- PowerEdge R6525
- PowerEdge R750
- PowerEdge R750xa
- PowerEdge R750xs
- PowerEdge R7515
- PowerEdge R7525
- PowerEdge T150
- PowerEdge T350
- PowerEdge T550

PowerEdge 14G servers

- PowerEdge FC640
- PowerEdge M640
- PowerEdge MX740c
- PowerEdge MX840c
- PowerEdge R340
- PowerEdge R440
- PowerEdge R540
- PowerEdge R640
- PowerEdge R6415
- PowerEdge R740
- PowerEdge R740xd
- PowerEdge R740xd2
- PowerEdge R7415
- PowerEdge R7425
- PowerEdge R840
- PowerEdge R940
- PowerEdge R940xa
- PowerEdge T340
- PowerEdge T440

PowerEdge C series

Lists the supported PowerEdge C series servers.

- PowerEdge C6420
- PowerEdge C6520
- PowerEdge C6525
- PowerEdge C6600
- PowerEdge C6620
- PowerEdge C6615

XC Series

Lists the supported Dell XC Series Web-scale converged appliances.

- XC450
- XC640
- XC650
- XC750
- XC750xa
- XC940
- XC6420
- XC6515
- XC6520
- XC7525
- XCXR2
- XC740xd
- XC740xd2
- XC660-10
- XC660-12N
- XC760-14
- XC760-24
- XC4000
- XC660xs-4
- XC660xs-4s
- XC7625-14
- XC760xa
- XC7625-24

XE Series

Lists the supported Dell XE series devices.

- PowerEdge XE2420
- PowerEdge XE7420
- PowerEdge XE7440
- PowerEdge XE8545
- PowerEdge XE8640
- PowerEdge XE9680
- PowerEdge XE9640

XR Series

Lists the supported Dell XR series devices.

- PowerEdge XR11
- PowerEdge XR12
- PowerEdge XR4000
- PowerEdge XR4510c
- PowerEdge XR4520c
- PowerEdge XR5610
- PowerEdge XR7620
- PowerEdge XR8620t
- PowerEdge XR8610t

Chassis

Lists the supported chassis devices.

- PowerEdge VRTX Blade Enclosure
- PowerEdge FX2/FX2s
- PowerEdge MX7000

VxRail

Lists the supported Dell VxRail hyperconverged appliances.

- VxRail E460
- VxRail E460F
- VxRail E560
- VxRail E560F
- VxRail E560N
- VxRail P470
- VxRail P470F
- VxRail P570
- VxRail P570F
- VxRail P580N
- VxRail S470
- VxRail S570
- VxRail V470
- VxRail V470F
- VxRail V570
- VxRail V570F
- VxRail E660
- VxRail E660F
- VxRail E660N
- VxRail P670F
- VxRail V670F
- VxRail S670
- VxRail P670N
- VxRail D560
- VxRail G560
- VxRail G560F
- VxRail E665
- VxRail P675F
- VxRail P675N
- VxRail VD-4510c
- VxRail VD-4520c
- VxRail VD-4500w
- VxRail VE-660
- VxRail VP-760
- VxRail VE-6615
- VxRail VP-7625

Non-Dell servers

Lists the supported non-dell servers.

- Most HPE servers having Integrated Lights-Out 5 (iLO 5)
- Most Lenovo servers having XClarity Controller (XCC)

PowerFlex

Lists the supported PowerFlex models.

- PowerFlex Rack R640
- PowerFlex Rack R740xd
- PowerFlex Rack R840
- PowerFlex Rack R650
- PowerFlex Rack R750
- PowerFlex Rack R7525
- PowerFlex Rack R6525
- PowerFlex Appliance R640
- PowerFlex Appliance R740xd
- PowerFlex Appliance R840
- PowerFlex Appliance R650
- PowerFlex Appliance R750
- PowerFlex Appliance R7525
- PowerFlex Appliance R6525
- PowerFlex Custom Node R640
- PowerFlex Custom Node R740xd
- PowerFlex Custom Node R840
- PowerFlex Custom Node R650
- PowerFlex Custom Node R750
- PowerFlex Custom Node R7525
- PowerFlex Custom Node R6525

Supported protocols

Power Manager supports the following protocols:

- Power Manager modifies the following regarding **Telemetry Streaming** service in iDRAC to retrieve metrics through Redfish protocol:
  - Enables Telemetry Data Stream
  - Adds or uploads an OME-PMP-Power-A custom Metric Report Definition report
- Simple Network Management Protocol (SNMP) for Power Distribution Unit (PDU) and Uninterruptible Power Supply (UPS) devices
- Web Services for Management (WSMAN) protocol for servers and chassis
- Representational State Transfer (REST) protocol for PowerEdge MX7000 chassis
- Redfish protocol for non-Dell servers

Supported devices, features, and metrics

View the supported devices, components, features, and metrics in Power Manager.

Table 6. List of supported devices, components, features, and metrics

Device type	Supported metrics and features
17th generation of PowerEdge servers	Only rack management is supported.
14th generation of PowerEdge servers	• Maximum, minimum, and average power • Maximum and average temperature • Maximum, minimum, and average CPU utilization • Maximum, minimum, and average Input Output utilization • Maximum, minimum, and average Memory Utilization • System airflow • Energy consumption • Maximum, minimum, and average overall memory power consumption • Maximum, minimum, and average overall CPU power consumption • Maximum, minimum, and average fan power consumption • Maximum, minimum, and average storage power consumption • Maximum, minimum, and average Field Programmable Gate Array (FPGA) power consumption
15th generation of PowerEdge servers	• R250 and T150—Thermal • R350 and T350—Power and Thermal • T550—Power, thermal, policy, CPU, I/O utilization, and memory bandwidth utilization • Maximum, minimum, and average overall memory power consumption • Maximum, minimum, and average overall CPU power consumption • Maximum, minimum, and average fan power consumption • Maximum, minimum, and average storage power consumption • Maximum, minimum, and average FPGA power consumption
PowerEdge M1000e, VRTX, FX2, and FX2s chassis	• Maximum, minimum, and average power • Instant temperature • Energy consumption
PowerEdge MX7000 chassis	• Maximum and minimum power • Maximum and minimum temperature • Energy consumption
16th generation of PowerEdge servers	• T360 and R360—Static power policy and the EPR throttle feature are not supported. • T160—Thermal metrics, EPR shutdown feature, and temperature-triggered policy • R260—Power metrics, thermal metrics, EPR shutdown feature, temperature-triggered policy, and system airflow • Maximum, minimum, and average power

Table 6. List of supported devices, components, features, and metrics (continued)

Device type	Supported metrics and features
	- Maximum and average temperature - Maximum, minimum, and average CPU utilization - Maximum, minimum, and average Input Output utilization - Maximum, minimum, and average Memory Utilization - System airflow - Energy consumption - Maximum, minimum, and average overall memory power consumption - Maximum, minimum, and average overall CPU power consumption - Maximum, minimum, and average fan power consumption - Maximum, minimum, and average storage power consumption - Maximum, minimum, and average FPGA power consumption
PDU	- Instant power - Energy consumption
UPS	- Output power - Output energy - Battery temperature
Non-Dell servers	- Maximum, minimum, and average power - Instant temperature
GPUs	- Thermal alert state - Power break state - Power supply status Minimum, maximum, and average of: - Power consumption - Primary temperature - Memory temperature
PSUs	- Minimum, maximum, and average of Power Supply - Current - Minimum, maximum, and average of Power Supply - Thermal
CPUs	Minimum, maximum, and average of CPU Socket - Thermal
PowerFlex	PowerFlex device monitoring is supported. PowerFlex device management such as policy and EPR is not supported.

ⓘ **NOTE:**
- Modular servers do not support **System Airflow** values.
- The minimum and maximum values that are reported by MX7000 chassis for power and temperature metrics are the lowest and highest values that are ever encountered by the chassis for the respective metrics since the last time these metrics are reset in OpenManage Enterprise Modular. The current values might not reflect the actual value of these metrics at a specified time interval.

If the criteria are met and you still are not able to view **Power Manager** data, ensure that the **Server Power Monitoring** feature is enabled on the device you are discovering. To view the discovery log of a device:

1. In OpenManage Enterprise, click **Monitor** > **Jobs**.

   The **Jobs** page is displayed.

2. Search for the discovery type job for the device and select the job.
3. Click the **View Details** on the right side of the tab.

Details about the job are displayed.

In the **Messages:** section, check the status for the **Server Power Monitoring** feature.

(i) | **NOTE:** If the **Server Power Monitoring** feature is disabled, the device is not compatible with **Power Manager**.

Versions of Power Manager compatible with OpenManage Enterprise

The following table shows Power Manager and OpenManage Enterprise version compatibility.

Table 7. Compatibility matrix of Power Manager and OpenManage Enterprise

Power Manager Version	OpenManage Enterprise Version
Power Manager 1.0	• OpenManage Enterprise 3.2 • OpenManage Enterprise 3.2.1 • OpenManage Enterprise 3.3 • OpenManage Enterprise 3.3.1
Power Manager 1.1 and 1.2	• OpenManage Enterprise 3.4 • OpenManage Enterprise 3.4.1 • OpenManage Enterprise 3.5
Power Manager 2.0	• OpenManage Enterprise 3.6 • OpenManage Enterprise 3.7 • OpenManage Enterprise 3.8 • OpenManage Enterprise 3.8.2 • OpenManage Enterprise 3.8.3
Power Manager 3.0	• OpenManage Enterprise 3.9 • OpenManage Enterprise 3.9.2
Power Manager 3.1	• OpenManage Enterprise 3.10 • OpenManage Enterprise 3.10.1 • OpenManage Enterprise 3.10.2
Power Manager 3.2	• OpenManage Enterprise 4.0.x • OpenManage Enterprise 4.1.x
Power Manager 3.3	• OpenManage Enterprise 4.1 • OpenManage Enterprise 4.2
Power Manager 3.4	OpenManage Enterprise 4.3.x