Dell OpenManage Power Center 3.1

Release Notes

Release Type and Definition

Dell OpenManage Power Center is a power management solution for the data center. It enables you to monitor and manage power consumption and temperature in your data center through the management console.

Version:
 3.1.0   Rev.A01

Release Date:
November 2015

Previous Version
3.0.0

Importance

OPTIONAL: Dell recommends the customer review specifics about the update to determine if it applies to your system. The update contains changes that impact only certain configurations, or provides new features that may/may not apply to your environment.

Platform(s) Affected

Following is the list of Dell platforms supported in this release of Power Center.
- Dell PowerEdge R310 Server
- Dell PowerEdge R320 Server
- Dell PowerEdge R410 Server
- Dell PowerEdge R420 Server
- Dell PowerEdge R230 Server
- Dell PowerEdge R330 Server
- Dell PowerEdge R430 Server
- Dell PowerEdge R515 Server
- Dell PowerEdge R520 Server
- Dell PowerEdge R530 Server
- Dell PowerEdge R530XD Server
- Dell PowerEdge R610 Server
- Dell PowerEdge R620 Server
- Dell PowerEdge R630 Server
- Dell PowerEdge R710 Server
- Dell PowerEdge R715 Server
- Dell PowerEdge R720 Server
- Dell PowerEdge R730 Server
- Dell PowerEdge R730XD Server
- Dell PowerEdge R810 Server
- Dell PowerEdge R815 Server
- Dell PowerEdge R820 Server
- Dell PowerEdge R910 Server
- Dell PowerEdge R920 Server

- Dell PowerEdge R930 Server
- Dell PowerEdge M420 Server
- Dell PowerEdge M520 Server
- Dell PowerEdge M610 Server
- Dell PowerEdge M610x Server
- Dell PowerEdge M710 Server
- Dell PowerEdge M710HD Server
- Dell PowerEdge M620 Server
- Dell PowerEdge M630 Server
- Dell PowerEdge M820 Server
- Dell PowerEdge M830 Server
- Dell PowerEdge M910 Server
- Dell PowerEdge T320 Server
- Dell PowerEdge T130 Server
- Dell PowerEdge T330 Server
- Dell PowerEdge T420 Server
- Dell PowerEdge T430 Server
- Dell PowerEdge T610 Server
- Dell PowerEdge T620 Server
- Dell PowerEdge T630 Server
- Dell PowerEdge T710 Server
- Dell PowerEdge FM120x4 Server
- Dell PowerEdge FC830 Server
- Dell PowerEdge FC430 Server
- Dell PowerEdge M1000e Enclosure
- Dell PowerEdge VRTX Enclosure
- Dell PowerEdge FX2/FX2s Enclosure
- Dell PowerEdge C6220 Server
- Dell PowerEdge C6220 II Server
- Dell PowerEdge C4130 Server

What is Supported

Hardware requirements

You must install Power Center on a system with at least:

- A dual-core processor of 2.6Ghz or higher
- 4GB RAM
- 60GB free space of hard drive
- Gigabit bandwidth of network infrastructure

Operating Systems

OpenManage Power Center supports the following operating systems:

- Microsoft Windows Server 2012 R2 Essentials Edition
- Microsoft Windows Server 2012 R2 Standard Edition
- Microsoft Windows Server 2012 R2 Datacenter Edition

- Microsoft Windows Server 2012 x64 Standard Edition
- Microsoft Windows Server 2012 x64 Data Center Edition
- Microsoft Windows Server 2012 x64 Essential Edition
- Microsoft Windows Server 2008 x64 Enterprise Edition R2–SP2
- Microsoft Windows Server 2008 x64 Standard Edition R2–SP2
- Microsoft Windows 7 Professional and Enterprise
- Microsoft Windows 8 Professional and Enterprise (x64 recommended)
- Red Hat Enterprise Linux Server 6.5 x86_64
- Red Hat Enterprise Linux Server 6.6 x86_64
- Red Hat Enterprise Linux Server 7.0 x86_64
- SUSE Linux Enterprise Server 11 SP3 x86_64
- SUSE Linux Enterprise Server 12 x86_64

Web Browsers

OpenManage Power Center supports the following web browsers:
- Mozilla Firefox Version 37 and 38
- Google Chrome Version 41 and 42
- Microsoft Internet Explorer Version 10 and 11

What's New

- Support for PowerEdge FX2/FX2s Chassis power monitoring and management.
- Support for additional PDU models.
- View and analyze the subsystem power and Compute Usage for Second (CUPS) values.
- Analyze the server power characteristics per server model for planning and future expansion.
- Display PDU socket connection mapping with the device.
- Assist in planning capacity expansion and provide placement suggestions.
- Identify the underutilized servers in the data center based on power consumption pattern.
- Help to identify the potential cooling concerns in the data center.
- Schedule OMPC database backup. The backup data can be used as a restore point in case of a disk failure.
- View real-time system airflow history of the Dell's 13th generation of PowerEdge servers.
- Replicate the data center hierarchy on the iDRAC location based on OMPC physical location modelling.
- 21 pre-defined templates to create, customize, run and export reports.
- Modified filters to customize the results based on distinctive needs and environment.

Fixes

BITS171946: The event description is divided into two columns in exported file.

BITS171806: Wrong time for power task, when user edit a schedule start time in DST.

BITS171761: One occurrence of recurrent power task may insert multiple entry in task list.

BITS171751: Configuring HTTPS port and Database port to the same one not blocked in installation wizard.

Known Issues

Issue 1: Only one device can be selected for analyzing, when the IP Address/Hostname is the same.

Description: The IP Address/ Host name will be NA while adding some of the Non Dell Chassis to OMPC. We use IP/Hostname as key to identify the server hence cannot distinguish the device.
Resolution: No work around is available at this point of time. Low utilization and power utilization analysis functionality will be limited if the device does not have unique IP Address/Host name.

Issue 2: On the application log, saved filter may not work as expected.
Description: You cannot use the saved filter on the application log successively. However, you can save or run the filter once.
Resolution: No workaround available. Usually, the application log entries are limited.

Issue 3: On the **Power and Space Savings** window, if you select the **Consider all underutilized servers** option, the servers on that particular page is selected.
Description: After device discovery, if the number of underutilized servers is more than fifty and you try to select **Consider all underutilized servers** option, all underutilized servers are not selected. The servers that appear on that specific page are selected.
Resolution: You may have to manually select the servers, instead of selecting **Consider all underutilized servers** option.

Limitations

Issue 1: The power graph is blank while viewing the power (or temperature) history.
Description: When viewing the power history (or temperature) of a selected group in the 15 minute/1H window, the graph is blank.
Possible cause: OpenManage Power Center has just been installed and has not collected enough data to provide a power history graph.
Resolution or workaround: It is recommended to wait as OpenManage Power Center collects appropriate data to present the graph.

Issue 2: Getting "Average inlet temperature" events on an empty group. There is no device in the group, why is the event generated?
Description: The event is generated because you set the "Min Warning threshold" or "Min critical Threshold" values, but there are no devices present in the group. The temperature is reported as '0' in an empty group, and hence the event is generated.
Resolution or workaround: This is not a recommended practice. You should only set the temperature or power threshold on groups that contains devices.

Issue 3: Getting event "Power returns to normal", but the server is in the lost connection state.
Description: I got an alert that the average power usage exceeds the set threshold, and then I got an alert that "Power returns to normal", but when checking the server, I find that the server is in the "lost connection" state. What do I do now?
The reason you had a "Power returns to normal" message is because OpenManage Power Center cannot communicate with the server to collect power data on the power usage threshold due to the "lost connection" issue.
Resolution or workaround: The message is misleading; however, when getting the "lost connection" alert, Dell recommends that you analyze and re-establish the connection with OpenManage Power Center first. Once the server is connected, OpenManage Power Center collects the required power data and then reports the status or sends the appropriate event alert.

Issue 4: Though I have edited and saved the IPMI key, the next time I open the saved IPMI profile, the key is once again displayed as "0000…".
Description: The key might have changed, and the you may have updated the value . However, while the display should read the value as "xxxx…" as the key is encrypted, the encrypted key is instead displayed as "0000….". There is no difference between the display "0000…." and "xxxx…".
Resolution or workaround: N/A

Issue 5: OMPC does not provide a warning when I delete my own LDAP account.
Description: I logged into OpenManage Power Center with my LDAP account, and then deleted the LDAP account in the user management settings screen, but OpenManage Power Center did not provide a warning that was deleting the account I was using to log in.
To be fixed in the subsequent release which will have a warning message to ensure that you aware that you are deleting the current-user account.
Resolution or workaround: Log in or ask person with admin right account to log into OpenManage Power Center and create the account if in fact you made a mistake of deleting the account.

Issue 6: Server cannot edit the power policy on the enclosure M1000e/VRTX from static to dynamic.
Description: OMPC supports static power policy for M1000e/VRTX at the chassis level. Due to this, the option for selecting dynamic or static power policy is unavailable.
Resolution or workaround: Select Static power policy for M1000e/VRTX.

Issue 7: Device selection is lost when navigating to another page.
Description: This is a known limitation of the OMPC UI. The UI only focusses on the current page. Any actions such as edit or delete need to be taken on the current page for the selected devices. Otherwise, the selection will be lost when you navigate to the next page.

Resolution or workaround: Perform the recommended tasks on devices displayed one page at a time.

Issue 8: I get a "network exception" error when I am trying to log in with an LDAP user account.
Description: LDAP server configuration (see Settings > Directory) is required to log in with an LDAP user account. This issue could be caused by the network communication between LDAP and OMPC server during the authentication process.
Resolution or workaround: Check the LDAP configuration in OpenManage Power Center setting to make sure the IP address of LDAP server is correct.

Issue 9: The memory power is incorrect for some devices in power history window.
Description: The power history chart in device page shows abnormal reading/spikes in memory power.
Resolution or workaround: Update the iDRAC firmware to latest to solve this issue.

Issue 10: Power capability changed from "Monitor and capping" to "None" for T420 Server when we apply the the iDRAC firmware 2.10.10.10.
Description: Eventhough T420 server have the capping capability, it will change to "None" if we apply iDRAC firmware 2.10.10.10,
Resolution or workaround: Update the iDRAC firmware to latest to solve this issue.

Installation Prerequisites

Dependencies

- Managed servers must have an Integrated Dell Remote Access Controller (iDRAC) 6, 7, or 8. It is recommended to use the latest version firmware.
- Power Distribution Unit (PDU) and Uninterruptible Power Supply (UPS) devices must comply with the Management Information Base (MIB) the vendor provides through SNMP interface.
- Devices must provide exclusive access for Power Center because the policies set on the devices from other management software affect the Power Center power control function.
- The Baseboard Management Controller (BMC) user, through which Power Center communicates with devices, must be a local user account whose roles include Administrator. The device must be configured to allow the Administrator to use at least one of the cipher suite levels 0–3, and enable the IPMI over LAN setting.
- The WSman user, through which Power Center communicates with the chassis, must be a local user with the Administrator role. The chassis must be configured to enable the Web Server service.

Installation Instructions
Download

1. Click the Download File link to download the file.
2. When the File Download window appears, click Save to save the file to your hard drive.

Extract Files

1. Browse to the location where the file is downloaded and double-click the new file to unzip the downloaded package.
2. Specify the location to unzip the files.
3. Click on the unzip button to extract files.

Installation

Browse to the location where the files are unzipped and run the application.