

The Eaton logo consists of the word "EATON" in a bold, blue, sans-serif font. The letter "O" is stylized with a white dot in the center.

*Powering Business Worldwide*

The logo for Visual Power Manager features the word "Visual" in a teal, sans-serif font, followed by a square icon containing a stylized cube with orange, blue, and green faces. Below this is the word "Power Manager" in a blue, sans-serif font.

**Visual**   
**Power Manager**

*Cumulative Release Notes*

**Release 6.1.1**

## Eaton

[www.eaton.com/powerquality](http://www.eaton.com/powerquality)

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## Contact Eaton Support

For your convenience, Eaton provides support to assist you with questions on installation, operation and troubleshooting. Please contact us at:

[softwareconnectivityts@eaton.com](mailto:softwareconnectivityts@eaton.com)

800-356-5737 option 2, option 5, option 1

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# 1. 1 Introduction

## 1.1. About This Guide

This guide provides detailed information related to the features and enhancements provided in

## 1.2. Audience

This guide is intended for administrators who are responsible for installing, licensing, and configuring the application.

## 2. Release Details

This version of the product is available in both a full installation version and as an upgrade patch to the previous release. Please note the details in the table below for each variation of the installation.

### 2.1. Upgrade Patch

The following details apply to the upgrade patch version of the installation which is applied to an existing instance of the application only.

#### 2.1.1. Upgrade Patch Details

Item	Description
Name of Install File	VPMPatch-191104-C-6.01.00001-19120501.tar.bz2
Type of Install File	Upgrade
MD5 Checksum	150833ec3603d9afd230f93ee1ef0535
Release Date	November 4, 2019
Version Affected	6.1.0

#### 2.1.2. Upgrade Patch Prerequisites

The following items are required to complete a successful installation of this release.

**Please ensure all pre-requisites are met prior to starting any installations of the application.**

- **WARNING: Before installing this patch, please ensure that ALL VPM servers have at least one known-good and recent backup and/or VM snapshot to rollback to if necessary.**
- All VPM servers must have version affected (as noted above) installed
  - Version number is visible on the Web Interface link ribbon bar on the upper left or
  - On the server run: `cat /opt/VDC/VERSION`
- **WARNING: If the VPM system consists of multiple servers, it is vital to install this patch in the following order:**
  - Master Database Server first
  - Then the Master Server
  - Finally, all the Probe Servers
  - If the Master Database Server and Master Server reside on the same server, apply this patch on that server first
- Must have SSH access via a tool like PuTTY to gain command line access on the server
- Must have access to the systems using the root user account
- Root user must use BASH shell
- Must have the ability to transfer the patch file to the server (example: WinSCP)
- Confirm the integrity of the patch transfer by comparing the MD5 checksum located in the Patch Details above:
  - After moving the file from your local system to the application server run:  
`md5sum PATCH_NAME.tar.bz2`

## 2.1.3. Upgrade Patch Installation Instructions

Follow the instructions below to successfully apply this version of the product to your existing application servers.

**WARNING you will be presented with a similar message at the beginning of the installation. Please ensure that the conditions are met before starting the install.**

Before installing this patch, please ensure that ALL VDC servers have at least one known-good and recent backup and/or VM snapshot to rollback to if necessary. Is such a known-good and recent backup and/or VM snapshot available for EVERY VDC server? (YES/NO): YES

If the VDC system consists of multiple servers, it is vital to install this patch on the Master Database Server first, then the Master Server, finally all the Probe Servers. If the Master Database Server and Master Server reside on the same server, apply this patch on that server first. Is this required installation sequence being followed correctly? (YES/NO): YES

- Upload PATCH\_NAME.tar.bz2 onto all application servers under /tmp/
- Login to all application servers as root user
- Extract the patch installer by running:
  - `tar -C /opt/VDC -xvf /tmp/PATCH_NAME.tar.bz2`
- Apply the patch by running:
  - `/opt/VDC/patch/PATCH_NAME/install -u {certified | customized | locked}`

The -u option is required and will control how updates to the model library will be processed. Most upgrade packages include updates to existing models and creation of new models in the model database. Select one of the three options for managing this model update like in the example below:

```
/opt/VDC/patch/PATCH_NAME/install -u certified
```

- Certified – The application will receive the most up to date model information for models included in the upgrade file. For existing models, changes to the model will be overwritten with the configurations included in the patch. If the model does not exist, then it will be created.
  - Customized – If the model exists in the application it will NOT be updated with the information contained in the upgrade file. If the model does not exist, then it will be created.
  - Locked – The model information will NOT be processed into the application as part of the upgrade process.
- Clear browser history after installation before launching a web session to log into the new version of the application.

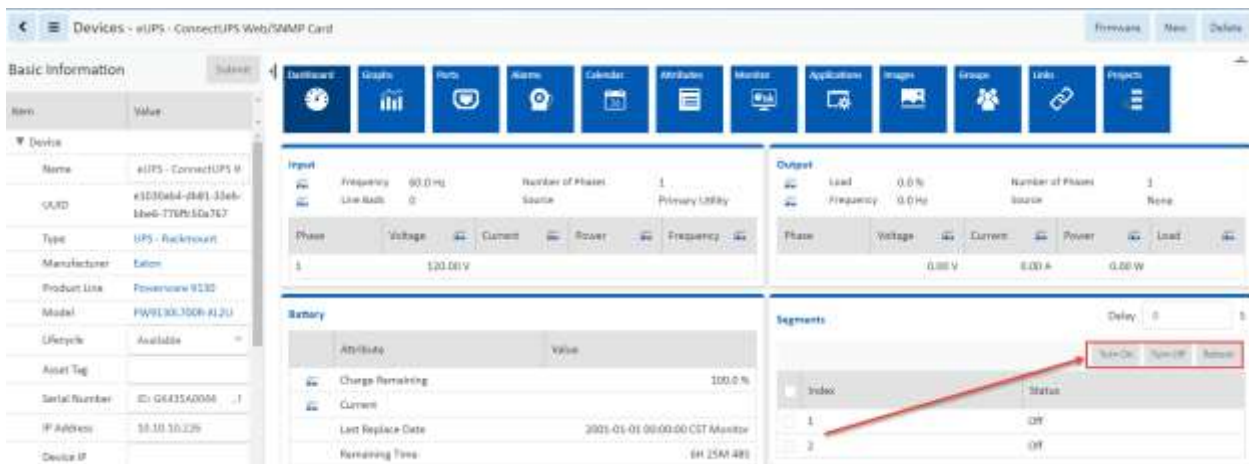
### 3. Version 6.1.1 New Features and Enhancements

The following list of features, enhancements and bug fixes are included in this version of the product. The prefix for each item included in this release will indicate if the enhancement is included in the Web interface. If no prefix is listed, then the enhancement is a general enhancement to the application without an update to the user interface. Items listed with a reference in [] were originated in the Customer Support Portal. The number in [] is a reference to the Support Portal Ticket ID.

ID	Description
<b>3513</b>	UPS Segment Control
<b>3514</b>	Support M2 UPS Firmware 1.6 and 1.7
<b>3515</b>	Create Ports on Model
<b>3517</b>	RPDU Outlet control
<b>3518</b>	Deploy Device to floor select device has error
<b>3523</b>	UPS Rackmount Dashboard Disable the Reboot Button
<b>3602</b>	[ATT-694-64647] Can Not Create New Devices

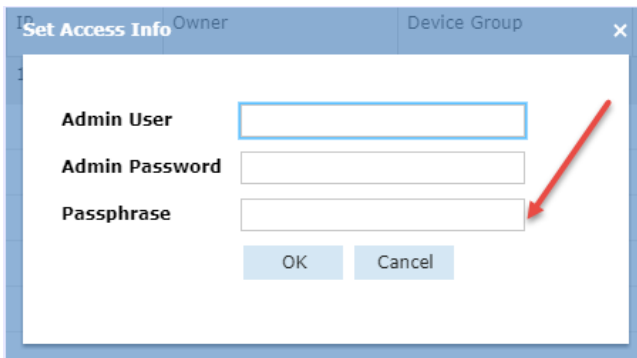
- 3513 UPS Segment Control**

The upgrade to 6.1.0 introduced an issue where the UPS Load Segment controls were not functioning properly. This patch will fix the On and Off commands with the load segment controls and will disable the Reboot control function. The Reboot control function is not correctly working for supported models using SNMPSet commands. This Reboot function will be re-introduced in an upcoming release.



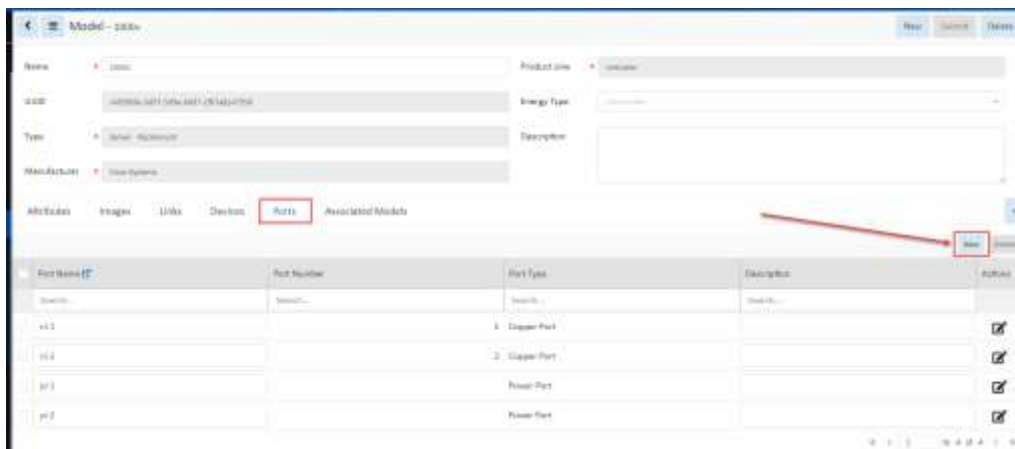
- **3514 Support M2 UPS Firmware v1.6.6 and v1.7.4**

The Eaton Rack UPS communication cards have released an updated Firmware which provides a security feature for bulk configuring SNMP read and write community strings. The bulk Manage Configuration feature for UPS Rackmount devices will prompt the user to supply a Passphrase which will download the community strings and allow bulk management via the Excel spreadsheet. If the Passphrase is not provided then the SNMP Community strings are not available to be managed with the bulk management feature.



- **3515 Create Ports on Models**

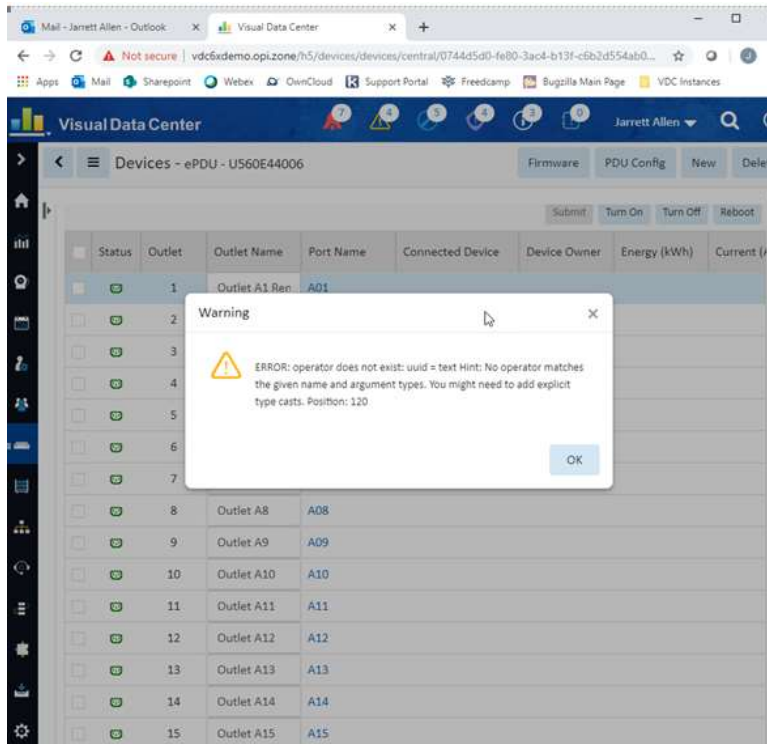
Upgrades from v5.x to v6.x introduced an issue where the user was not able to create New Ports on models. This issue has been resolved in this patch and users are now able to create new Ports on Models.





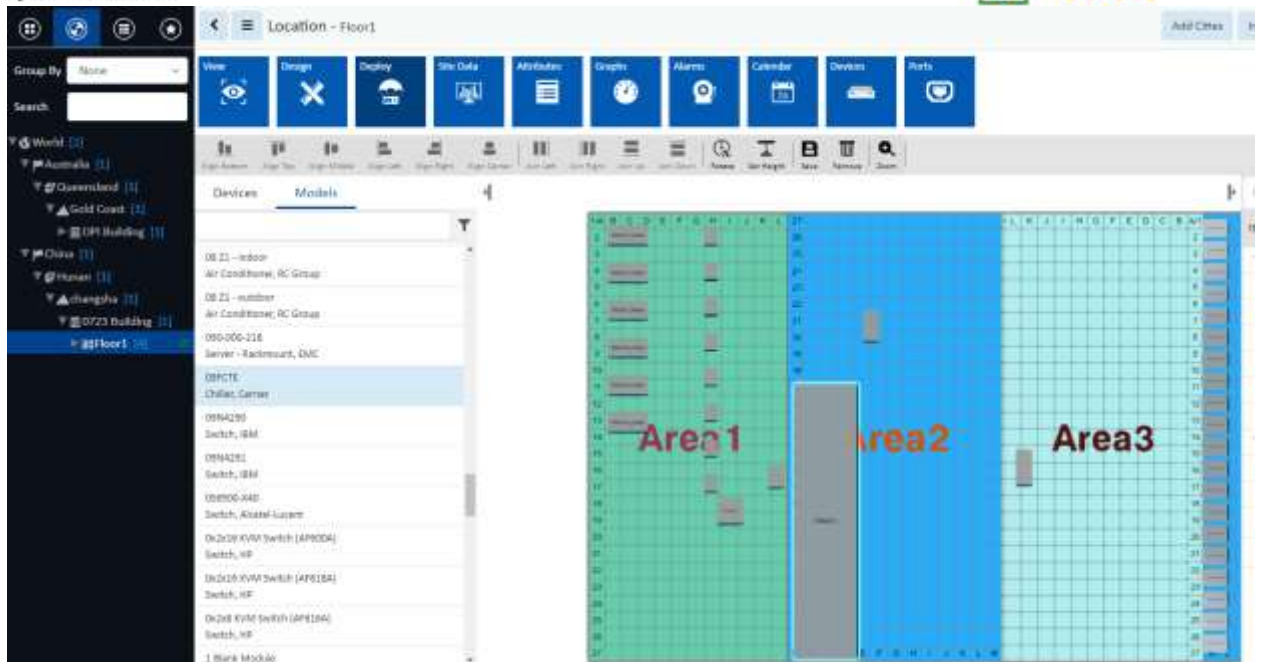
- **3517 RPDU Outlet control**

The v5.x to 6.x upgrade introduced an issue where some models of PDU Rackmount devices received an error when trying to control outlets. This issue has been resolved with this patch and these models are no longer impacted. Users are able to manage these PDU Rackmount outlets on supported models.



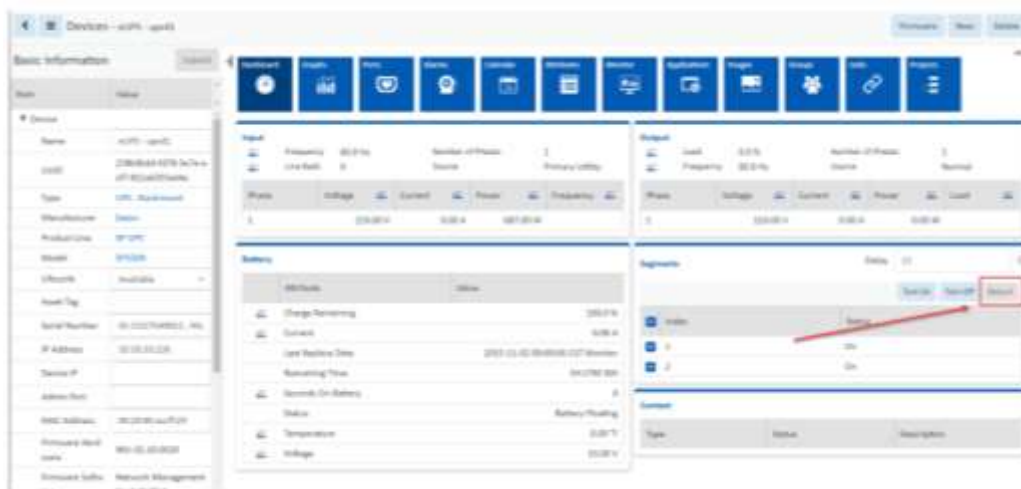
- **3518 Deploy Device to floor select device has error**

The version 5.x to 6.x upgrade introduced an issue where in some cases users were not able to click and move devices on the floorplan Deploy page. This issue has been resolved in this patch and users are now able to assign devices to the floorplan and immediately click and drag them to new locations on the floor.



- **3523 UPS Rackmount Dashboard Disable the Reboot Button**

The reboot button is disabled where reboot is not supported.



- **3602 [ATT-694-64647] Can Not Clone or Create New Rack**

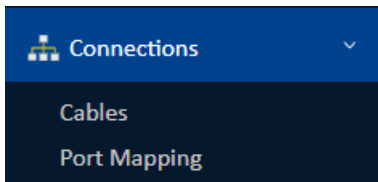
Fixed the issue where cloning or creating a rack produced error.

## 4. Version 6.1.0 New Features and Enhancements

The 6.1.0 release represents a continuation of the 6.x release plan which focuses on the creation of true HTML5 web support for all of the features in the application. This effort includes the conversion of Flash features to HTML5 from the prior versions as well as the creation of new HTML5 web features which have historically been isolated to the 3D client interface. The following key features are included in this 6.1.0 release. Please refer to the User Guide documentation for the Web Interface and 3D client for additional details on these features.

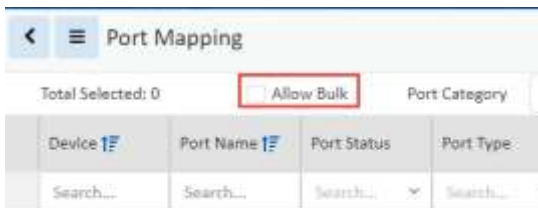
- **Connections - Port Mapping & Cable Lists converted to HTML5**

Port Mapping features for power and network connections have been converted from Flash to HTML5 and remain in the Connections menu group. For detail see the *Web Interface Users Guide, Section 12 Connections Menu Group*.



- **Support Bulk Port Connections**

The Port Mapping feature now includes a feature which allows users to make bulk connections between selected devices. This ability was previously not available in either the web or 3D client versions of port mapping. For detail see the *Web Interface Users Guide, Section 12.2 Port Mapping Menu Item, Allow Bulk checkbox description*.



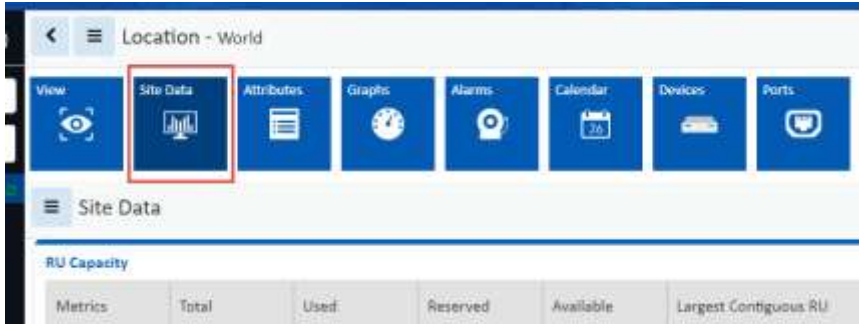
- **Floorplan - Design, Deploy & View Pages converted to HTML5**

All web floorplan pages have been converted from Flash to HTML5. For details see the *Web Interface Users Guide, Section 19.4 Floor Node*. These new application pages include the following:

- Design – Upload images, draw walls, define areas, set raised floor and grid definitions.
- Deploy – Assign devices onto the floor.
- View – View the floorplan and devices along with Layer views.

- **Location Site Data included in web interface**

As users select a location on the navigation tree a new web feature has been added to provide Site Data information related to the selected location. For detail see the *Web Interface Users Guide, Section 19.3.2 Site Data Function Tile*.



- **Device Type Dashboards converted to HTML5**

When selecting a device in the application, the user is taken to a device central page which provides access to different types of information related to the selected device. The first tile available for a user in this device central page is the Dashboard. In previous versions the Dashboard was a Flash page which has now been converted to an HTML5 page.

Depending on the type of device selected (Rack, Rack PDU, Rack UPS, Server, Switch, etc) the data and format of the dashboard will be different. Each of these dashboard formats is documented in the *Web Interface User Guide, Section 18 Device Dashboards*.



- **Bulk Monitoring Template Scripts**

This version of the solution includes two bulk import scripts designed to help with changes to monitoring templates for devices. The following scripts are available.

- **`/opt/VDC/tools/bin/import_template.sh`**
  - This script is used with an input spreadsheet to create monitoring templates in bulk
  - Details for running the script and configuring the input spreadsheet can be found in the *VPM v6.1.0 - Administration Guide, Section 33 Bulk Monitoring Template Creation Script*.
- **`/opt/VDC/tools/bin/enable_device_template.sh`**
  - This script is used with an input spreadsheet to bulk activate and deactivate monitoring templates for specified devices

- Details for running the script and configuring the input spreadsheet can be found in the *VPM v6.1.0 - Administration Guide, Section 34 Bulk Monitoring Template Activation Script*.

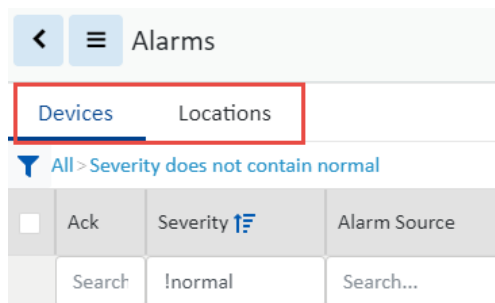
**Note:** A future version of the application will support use of these scripts in the user interface:

- **Percent Comparison for Triggers**

In previous 6.x versions of the application, triggers were configured with collected data compared to raw data values. In this version, users have the option to compare the collected data to a percentage of other attribute values for the device. This allows for triggers to be defined based on a complex set of attribute comparisons. For example, an alarm can be configured when the Actual Power is over 80% of the Derated Power.

- **Device & Location Alarms in Separate Lists**

The Alarms page has been divided into two separate lists to provide information on active alarm conditions for devices and alarms. Previously, the location and device alarms were integrated to a single view which caused difficulty in managing the list. Now, with separate lists, users can view and manage device and location alarms in their own dedicated list.



- **Support User Password Expiration & Account Expiration**

New security features have been added to allow administrators to manage the expiration of user account access to the application. Two new features have been added in this regard:

- Password Expiration – Administrators can now set an expiration date for a user password which will require the user to change the password.
- Account Expiration – Administrators can grant access to the application for a specified period of time.
- Reports – Opens the web interface Data Analysis Reports page.

- **Version 5.x to 6.x Upgrade Path**

The release of version 6.1.0 includes an upgrade path from version 5.6.3. This is a key capability supported with this release to allow users to migrate from the 5.x product track into the newer 6.x product track. Please contact your account manager to help plan your upgrade process.