



**Release Notes** 

Release 6.2.0





#### **Eaton**

#### 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

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. To perform a new install of the application please view the New Installation section of this document.

## 2.1.1. Upgrade Patch Details

Item	Description
Name of Install File	VPMPatch-191030-C-6.02.00000-19011003-
	e502a0a598aa799881b988edc15d4f3b.tar
Type of Install File	Upgrade
MD5 Checksum	e502a0a598aa799881b988edc15d4f3b
Release Date	January 2020
Version Affected	6.1.1
Version of 3D Client Required	6.2.0

## 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:
  - o tar -C /opt/VDC -xvf /tmp/PATCH\_NAME.tar.bz2
- Apply the patch by running:
  - o /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.
- Monitoring Templates If you have modified any of the system monitoring templates,
   by adding OIDs, etc. those changes will be kept by default during the upgrade.





- To RESET the system monitoring templates back to the original system settings you must use the -P option. For example:
   /opt/VDC/patch/PATCH NAME/install -P -u certified
- Clear browser history after installation before launching a web session to log into the new version of the application.





# 2.2. New Installation

## 2.2.1. New Installation Details

Item	Description
Name of Install File	<mark>xxxxx</mark>
Type of Install File	Full Install
MD5 Checksum	<mark>xxxxx</mark>
Release Date	<mark>xxx</mark>
Version Affected	Not Applicable – New Install
Version of 3D Client Required	Version 6.2.0

# 2.2.2. Prerequisites & Installation Instructions

Please consult the application Server OS & Installation Guide for details on the full installation prerequisites and installation steps.





## 3. 6.2.0 New Features and Enhancements

The 6.2.0 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 list of features, enhancements and bug fixes are included in the 6.2.0 version of the product. The prefix for each item included in this release will indicate if the enhancement is included in the Web interface, 3D client interface or Both interfaces. 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. Please refer to the User Guide documentation for the Web Interface and 3D client for additional details on these features.

### 3.1. New Features Table

ID	Description
3568	Web: All Flash Features have been Converted to HTML5
2597	Web: Auto Plan Ignores Blanking Panels
2741	Web: IP Address included in Racks Filter Tool for Rack and Device Lists
2865	Web: Service Now Integration has been Enhanced
2964	Web: Rotate 180 Degree for devices Mounted on back of racks
3001	Web: Rack Manager displays multiple racks for adding and moving devices
3041	Both: [FTL-194-88095] Cable Types added to SFP port mapping
3063	Clear Trap Alarm in Alarm Panel
3098	Web: [DRY-280-51151] Cannot add sleds to rear of storage array
3164	Rack PDU Rotate
3239	Web: [OQB-166-85002] Project Approval Notification Enhanced
3278	Web: Calendar Log Enhancement to include import information
3324	Web: Rack mounted devices can be flipped horizontally
3330	Both: [QUN-846-27941] Messages for Unreachable points on device are
	consolidated
3524	Both: [BHE-635-68211]: VPM monitor Slony process error
3525	Web: Layer Replay
3535	Web: [NWK-332-23212] Discovery of Liebert UPS and Eaton UPS
3536	Web: Updated Trap XUPS Monitoring Template
3537	Web: [VYU-953-97922] New Rack Space Report
3538	Web: [UPT-413-95498]: SNMP Polling and SNMP Trap Community Strings
	Configured Independently
3541	Web: [LGS-639-42481] Discovery of Vertiv, Giest, Avocent and APC Rack PDUs
3544	Web: [FUB-544-98371] ServerAdmin password can be changed in GUI
3546	Web: Improvements to APC PDU Dashboard
3548	Export Racks PDF on floor view
3564	Web: [DEQ-306-37318] Power Assignment to the Racks





Torrowing beameou from	
3589	API: Calls added to retrieve space, environment power and asset information for a given company
3591	Real time data table supports tabular data points
3595	Both: [EGQ-640-36776] Time Zone errors
3600	Both: [ATT-694-64647] Fix corrupt system library
3603	Web: [PSC-787-81059 13] Export Device.xlsx error opening file
3604	Web: [EDG-106-98496] User cannot manually add a device to a rack in a move Work Order with Pending Deploy status
3607	Web: [FJU-392-53000] APC Rack PDUs - Dashboard not working for outlets
3611	[LIY-182-78363] Thermal map
3612	Web: [YKC-201-14688] Error when trying to show hidden devices
3615	[QUA-271-32872] PUE Calculation Issue

### 3.2. New Features List

#### • 3568 Web: All Flash Features have been Converted to HTML5

The features listed were the last of the Flash interface and have all been converted to HTML5. All Flash has been eliminated from the web interface. These features have been thoroughly documented in the *Web Interface Users Guide*.

- o Rack Manager (Racks Menu Group > Rack Manager Menu Item)
- Reports (Data Analysis Menu Group > Reports Menu Item)
- Firmware (Devices Menu Group > Manage Menu Item)
- Circuit Trace, Power Path and Network Path (Select Device link > Device Central > Ports Function Tile)
- o ITSM Integration (Integrations Menu Group > ITSM Integration Menu Item)
- Camera Studio (Integrations Menu Group > Camera Studio)
- Capacity Planner (Data Analysis Menu Group > Capacity Plans)

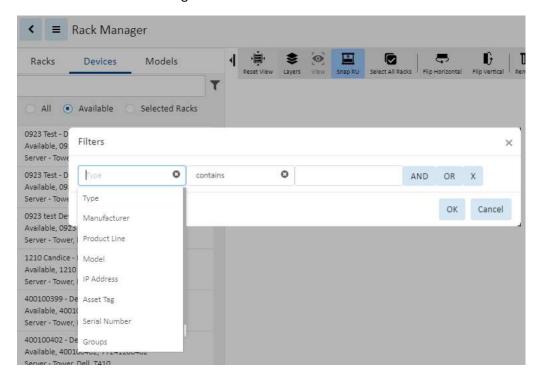
### • 2597 Web: Auto Plan Ignores Blanking Panels

The project auto plan feature ignores blanking panels when determining if space is available for device placement.





2741 Web: IP Address included in Racks Filter Tool for Rack and Device Lists
 The filter tool in Rack Manager's Rack and Device lists now includes IP Address.



### • 2865 Web: Service Now Integration has been Enhanced

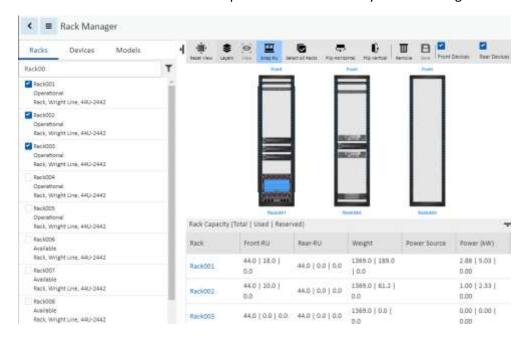
In addition to the conversion of ITSM Integration to HTML5 the specific Service Now integration allows for importing and exporting of the model and attribute mapping lists using spreadsheets. The device location information in the application is available in a series of fields that can be mapped to fields in Service Now.

2964 Web: Rotate 180 Degree for devices Mounted on back of racks Devices mounted on the rear of racks have the option to be rotated 180 degrees.

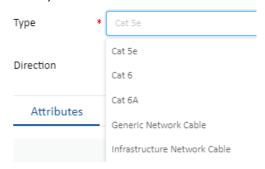




• 3001 Web: Rack Manager displays multiple racks for adding and moving devices Users can view and work with multiple racks simultaneously in rack manager.



• 3041 Both: [FTL-194-88095] Cable Types added to SFP port mapping
Cat 5e, Cat 6 and Cat 6a have been added to the list of cable types for SFP ports.

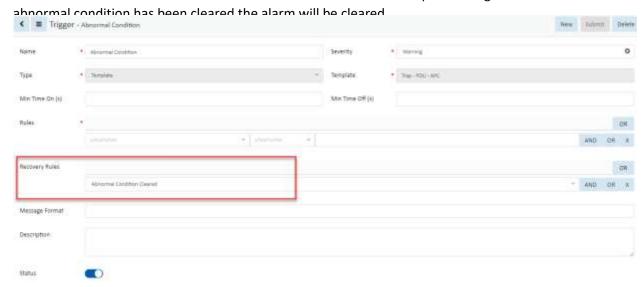






• 3063 Web: Clear Trap Alarm in Alarm Panel

Triggers now have a Recovery Rule where you can specify another trigger to clear the current trigger. The trigger shown here goes into a warning state when the trap from the device indicates an abnormal condition. When the device sends another trap indicating that the



- 3098 Both: [DRY-280-51151]: Web Interface: Cannot add sleds to rear of storage array Issue has been fixed and users can now add sleds to the rear of storage arrays.
- 3164 Web: Rack PDU Rotate
   A Rack PDU can be rotated when being placed on a rack in the web interface.
- 3239 Web: [OQB-166-85002] Project Approval Notification Enhanced Refer to the Web Interface User Guide for project management details.
- 3278 Web: Calendar Log Enhancement to include import information Calendar now include import file name when logging import activity.





• 3324 Web: Rack mounted devices can be flipped horizontally

Devices in rack now have Flip Horizontal option. This means that a rear mounted device can be flipped to face the front of the rack and front mounted device can be flipped to face the back.



- 3330 Both: [QUN-846-27941] Messages for Unreachable points on device are consolidated Previously users would receive a notification for each unreachable data point on a monitored device. Now when a device shuts off or drops from the network and becomes unreachable a single email stating "Some or all of the data points are Unreachable" for the device.
- 3524 Both: [BHE-635-68211]: VPM monitor Slony process error
   Previously vdcmon would send an error report for the Slony process. Slony is no longer used by the application so the error check has been removed.
- 3525 Web: Layer Replay

Some layers within a floor's layer views have replay capability where you can view the changes to the layer over time (For example: Any of the Thermal Environment Layers). When available the player is visible and allows for a date and time range, video speed, timeline, video play, pause and replay buttons. This can be seen in the thermal and humidity maps.



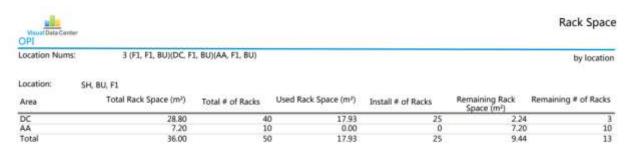
- 3535 Web: [NWK-332-23212] Discovery of Liebert UPS and Eaton UPS
  - Auto discovery functionality added for several UPS' including Emerson/Liebert Battery String U36BP500WXBNUUU, Vertiv GXT5-1000LVRT2UXL, Vertiv PSI5-1500RT120 and Eaton 5PX1500RT.
- 3536 Web: Updated Trap XUPS Monitoring Template

The attributes and OIDs in the system pre-defined monitoring template Trap XUPS have been updated.



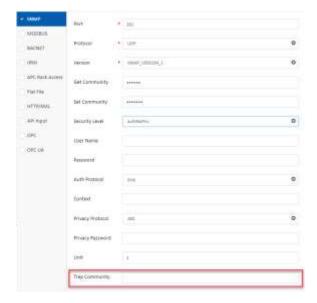


• 3537 Both: [VYU-953-97922] New Rack Space Report

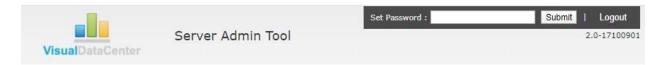


 3538 Web: [UPT-413-95498]: SNMP Polling and SNMP Trap Community Strings Configured Independently

The SNMP Polling and SNMP Trap community strings can now be configured separately so there is a different community string for each. The Trap Community string is the last attribute in the configuration list.



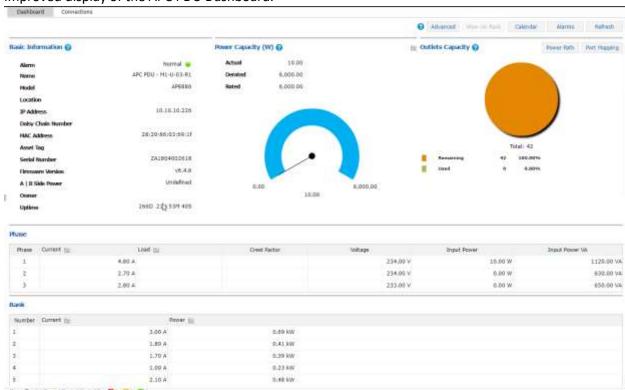
- 3541 Web: [LGS-639-42481] Discovery of Vertiv, Giest, Avocent and APC Rack PDUs
   Auto discovery functionality added for several rack PDU models from Vertiv, Giest, Avocent and
   APC.
- 3544 Web: [FUB-544-98371] ServerAdmin password can be changed in GUI
  Previously the Set Password option in the ServerAdmin graphic user interface interface did not
  work. It works properly now and changes the ServerAdmin password to the one specified by the
  user.







3546 Web: Improvements to APC PDU Dashboard
 Improved display of the APC PDU Dashboard.

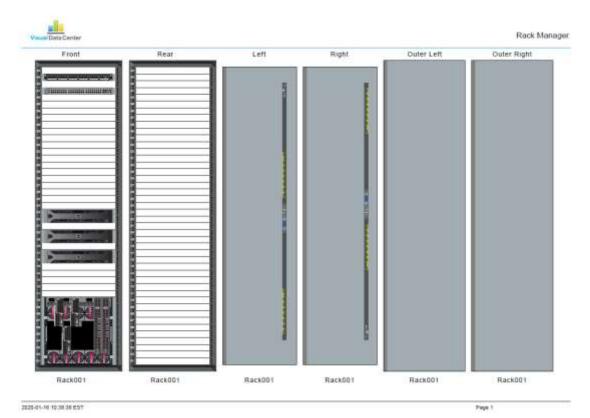






#### • 3548 Web: Export Racks PDF on floor view

The floor view now has an Export Racks PDF option which produces a report with information for each rack at the location. The system will produce a PDF for each batch of 100 racks and deliver them in a zip file to the downloads folder. The zip file is named for the location (For example: London,1 Main St,1.zip). The PDF file is named for the sequence of racks it contains (For example: 1-100.pdf, 101-200.pdf, etc.). For each rack there are graphics of the Front, Rear, Left, Right, Outer Left and Outer right followed by a list with details regarding all the mounted devices.



Wassi Detail	enter									Rack Manage
Rack901										
iam.	Lifecycle	Annet Tag	Serial Hamber	IP Address	Туре	Model	U Pasition	Enclosure	Skirith	Side
Paid/Pane/901	Operational				Patch Panel	CPP24PMWBLY	43.0			
Selfcm001	Operational			10:10:10:110	Seich	ProCurve 2846 (34904A)	41.0			
ierver001	Operational				Server - Raubmount	R518	22.4			
ieve002	Operational				Selvel - Rackmount	R510	19.0			
Server003	Operational				Server – Rackmount	H510	16.0			
ServerEns001	Operational				Server - Blade Errotoaure	BL C7000	0.0			
i-eryer@sade001	Operational				Server - Blade	BL485c.07	1.0	ServerE4u001	2.	
eve6we902	Operational				Server - Blade	BL48Se (ST	1:0	SeverEncoor	11:	
serve@sace303	Operational				Server - Brade	BLASSI (ST	1.0	ServerE/4001	4	
(Obserbace)	Operational				Seiver - Blade	81,6854 DE	100	ServerEnu001	7,16	
Potential and Preventing	Operational				Server - Blade	BL685k G6	1.0	ServerEnc001	0,16	
POU - VE17F13022	Operational		U617F15022	192.166.111.169	PDU - Mackmount	EMA112-18				Lieft
PDU - #17F13023	Operational		UE17913023	162.168.111.166	PDU - Racintouni	EMA112-10				Right
AMout 207	Operational		0004-020-007	192,198,111,207	Access Control	DRICTLS				Pront Door
TARRIUS 200	Operational		0009-020-007	192,166,111,200	Access Control	DESTUR				Wear Door





#### • 3564 Web: [DEQ-306-37318] Power Assignment to the Racks

- Added a calculated Attribute named Contracted Power and a static attribute Contracted Power.
- Users need to manually add the Contracted Power attribute to devices if they want to calculate the value on this device. Users also need to add the attribute to monitoring templates.
- Calculated Contracted Power Rules:
  - On Rack devices: the Contracted Power = Power Derated on the rack
  - On Rack PDU devices:
    - The Contracted Power = total of all connected racks Contracted Power (Single) + total of all connected racks Contracted Power/2 (Dual)
    - \*Single means the rack is connected to 1 RDU device, Dual means the rack is connected to 2 RDU devices
    - If users key in static attribute Contracted Power at Rack PDU level, the Contracted Power equals to the static value.
  - On PDU devices: the Contracted Power = total of all connected RDUs Contracted
     Power
  - On MSB devices, the contracted power = total of all connected PDU's Contracted Power
  - On UMSB devices, the Contracted Power = total of all connected MSBs Contracted Power
- Power Assignment report added
  - Derated Power and Rated Power are from device static attribute Power Rated and Power – Derated.
  - Contracted Power is from the device monitored MA Contracted Power
  - Actual Power is from device monitored MA Layer Power
  - Power Utilization = Actual Power / Contacted Power \* 100%

Location Nums; Device Group Nums:	10 (1256564, F1, Lindsey No 1 (power assignment)	by device						
Location: Unassigned Devices								
Device Name	Rated Power kW	Derated Power kW	Contracted Power kW	Actual Power kW	Power Utilization %			
m-M58-A1	200.00	150.00	20.0	6.4	32.00%			
m-MS8-B1	200.00	150.00	6.0	2.0 2.0	33.339			
m-PDU-L1-A1	80.00	70.00	3.0	2.0	66.679			
m-PDU-L1-A2	80.00	70.00	17.0	3.2	18.829			
m-POU-L1-81	80.00	70.00	6.0	2.8	46.679			
m-PDU-L1-B2	80.00	70.00		3.4				
m-rack(1)	8.00	6.00	6.0					
m-rack(2)	8.00	6.00	6.0					
m-rack(3)	8.00	6.00	6.0					
n-RDU-L1-A1	50.00	40.00	1.8	1.0	55.569			
n-RDU-L1-A2	50.00	40.00	-12	0.8	66,679			
n-RDU-L1-A3	50.00	40.00	5.0	1.4	28.009			
n-RDU-L1-A4	50.00	40.00	12.0	15	12.509			
n-ROU-L1-B1	50.00	40.00	6.0	1.2	20.009			
n-RDU-L1-82	50,00	40.00		1.5				
n-ROU-L1-B3	50.00	40.00		1.4				
m-RDU-L1-B4	50.00	40.00		1.5				
m-UMS8-A	240.00	200.00	20.0	14.0	70.009			
m-UMSB-B	240.00	200.00	6.0	3.0	50.009			



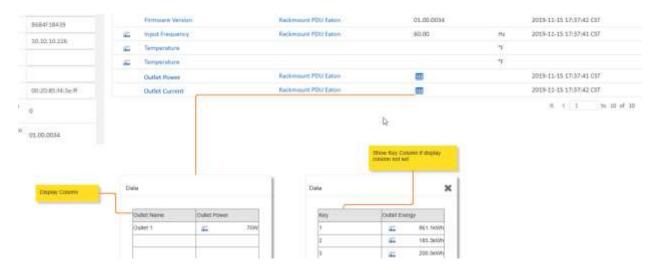


 3589 API: Calls added to get space, environment power and asset information for a given company

The new API calls are documented in the Company and Department API calls section of the VPM v6.2.0 - RESTful API User Guide. These calls require an added authorization level. To get the authorization codes you must contact Eaton support.

• 3591 Web: Real time data table supports tabular data points

The Real-time data table now displays a table icon indicating that the datapoints returned as in a tabular format. The user clicks on the table icon to displays the tabular data.



• 3595 Both: [EGQ-640-36776] Time Zone error

Issue with time zone error message and monitoring timestamp due to change in Brazil from GMT-200 to GMT-300 has been resolved.

- 3600 Both: [ATT-694-64647] Fix corrupt system library
  - In some cases a corrupted python library rack\_capacity.py can prohibit user from creating or cloning racks. This issue has been resolved.
- 3603 Web: [PSC-787-81059 13] Export Device.xlsx error opening file
   Error fixed in device export when there are multiple rack groups defined in the system.
- 3604 Web: [EDG-106-98496] User cannot manually add a device to a rack in a move Work
   Order with Pending Deploy status

Users are now able to manually mount devices in an Operational Moving rack.

- **3605** Web: [MJD-970-25278] In Project Wizard unable to set location to planned racks Set Location and Auto Plan can now place rackmount devices in Reserved Available/Reserved Procurement/Operational Moving racks.
- 3607 Web: [FJU-392-53000] APC Rack PDUs Dashboard not working for outlets The dashboard for APC Rack PDUs now works properly with outlets.
- 3611 Both: [LIY-182-78363] Thermal map

An attribute internal unit issue that could cause problems with the thermal map has been corrected.





- 3612 Web: [YKC-201-14688] Error when trying to show hidden devices

  Error when trying to show hidden devices on the discovery page has been resolved. The issue occurs when there are discovered devices in jobs which are deleted from the system.
- 3615 Web: [QUA-271-32872] PUE Calculation Issue
  In the previous version there was a problem with calculating the electricity cost and it has been resolved.

