Visual Capacity Optimization Manager

Cumulative Release Notes

Release 6.0.1

Version 1

May 2019

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

Contents

1. Introduction

1.1. About This Guide

This guide provides detailed information related to the features and enhancements provided in recent releases of the application.

2. Release Details

This version of the product is available as an upgrade patch to the previous release.

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 visit the support portal for links to the full installer and supporting documents.

2.1.1. Upgrade Patch Details

Item	Description
Name of Install File	VCOMPatch-190415-C-6.00.00001.tar.bz2
Type of Install File	Upgrade
MD5 Checksum	7da2b1880dae3efdb93a6dac6f8004b9
Release Date	May 11, 2019
Version Affected	6.0.0
Version of 3D Client Required	6.0.1

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 VCOM servers have at least one known-good and recent backup and/or VM snapshot to rollback to if necessary**.
- **YUM repository is required for patch installation.** Please see the YUM section of the Server & OS Installation Guide for YUM configuration details.
- All VCOM 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 VCOM 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
- 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`**
- Confirm that MD5 Checksum matches the value in the table above.

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.

```
# /opt/VDC/patch/VDCPatch-180204-C-5.04.00000/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.

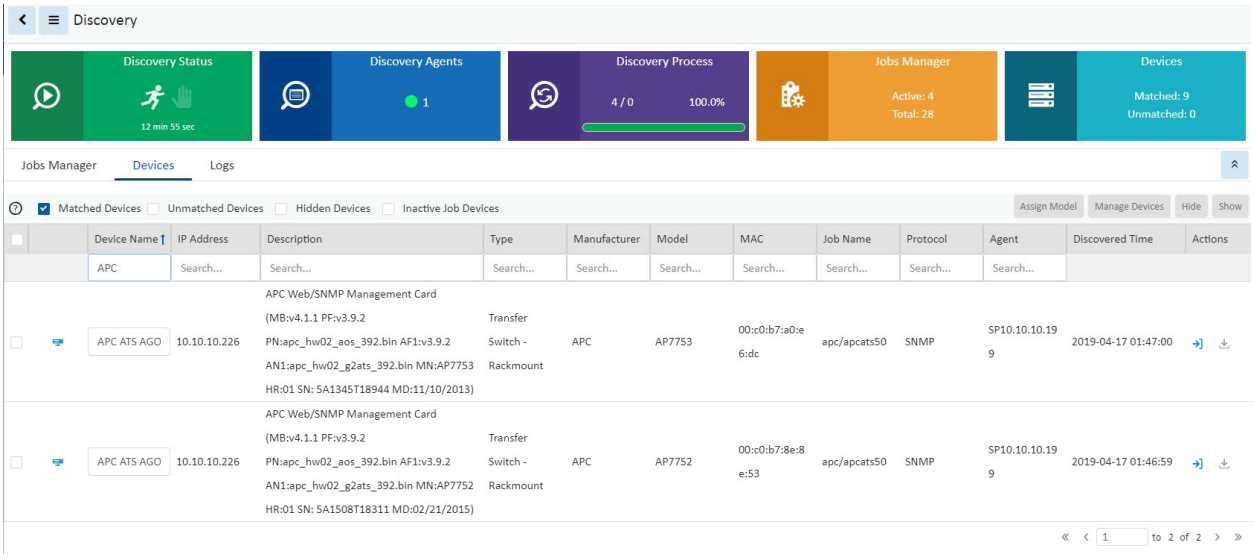
- **Clear browser history** after installation before launching a web session to log into the new version of the application.

3. Version 6.0.1 New Features and Enhancements

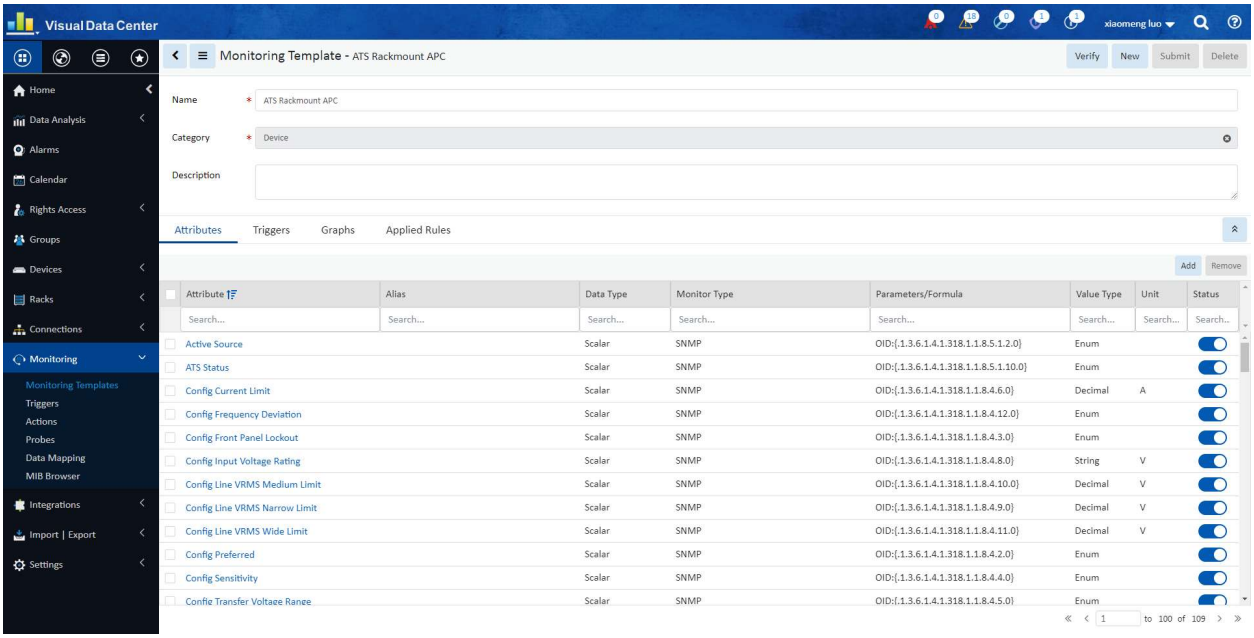
The following list of features, enhancements and bug fixes are included in this version of the product. The prefix for each item included in this release will indicate if the enhancement is included in the Web interface, 3D client interface or Both interfaces. If no prefix is listed, then the enhancement 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.

ID	Description
3352	WI: Support APC Rackmount ATS in Discovery
3353	WI: Add Connections Table in Device Central
3355	WI: Navigation Tree Enhancement
3362	WI: Support Starline Power Bus in Discovery
3363	WI: Support Server Tech PDU in Discovery
3364	WI: Support Eaton M2 UPS in Discovery
3365	WI: Add Power Source on Rack Capacity Dashboard
3366	WI: Add About Link to Help Page
3367	WI: Location Access Control List Enhancement
3368	WI: Support Import Navigation Tree Nodes
3369	WI: Daisy Chain Firmware Push
3370	WI: Support firmware and load segment controls for both models of cards in Eaton devices
3378	Update UPS Battery Replacement Report
3381	Add Firmware Version as Monitored Data Points

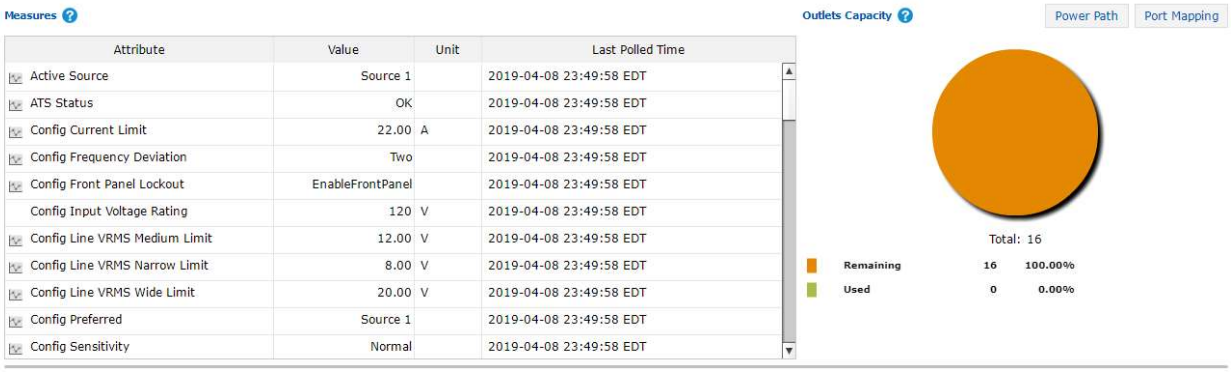
- **3352 WI: Support APC Rackmount ATS in Discovery**
  Added ability to discover APC rackmount ATS devices.



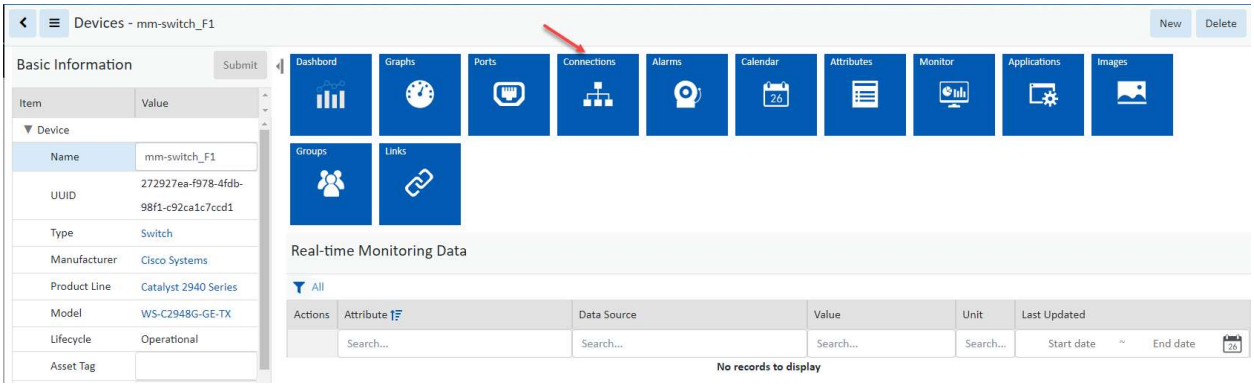
Added a monitoring template for APC Rackmount ATS models.

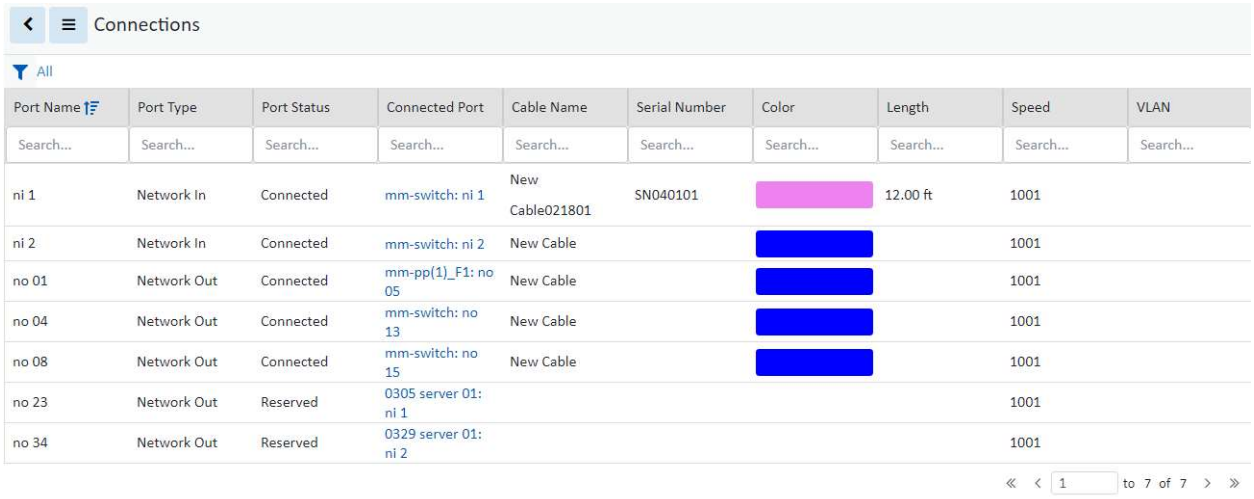


There is a corresponding dashboard for APC rackmount ATS devices.



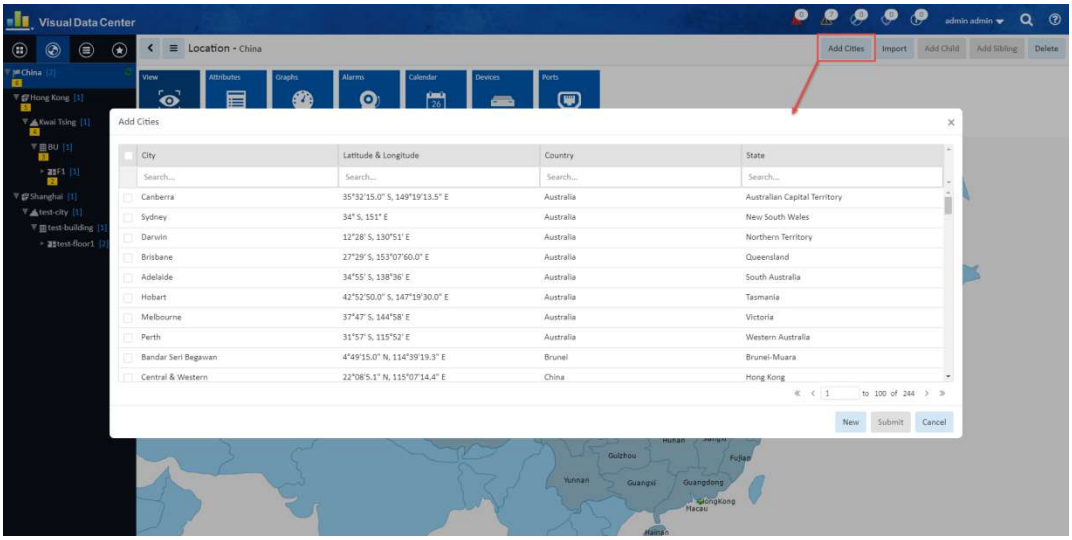
- **3353 WI: Add Connections Table in Device Central**
  Add a separate table to list connected/reserved ports with connection information. Port to Port connections have more information than just the target device and port. This table also displays color, length, port type, speed, VLAN, etc.



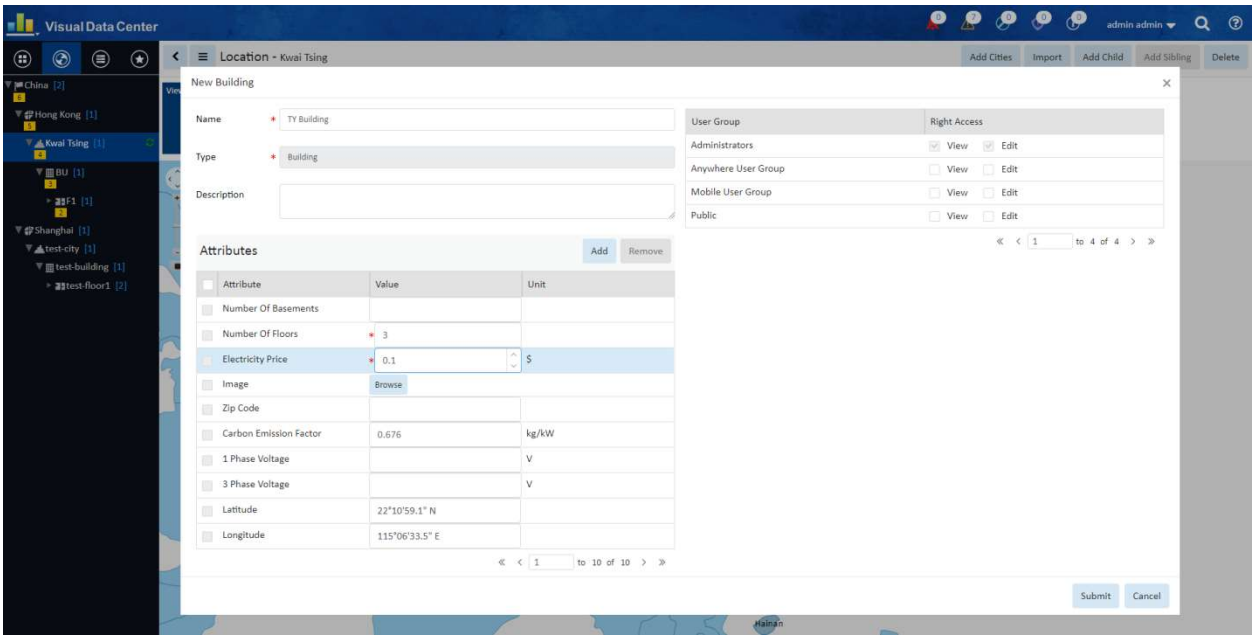


- **3355 WI: Navigation Tree Enhancements**
  Navigation tree has been converted to HTML5.

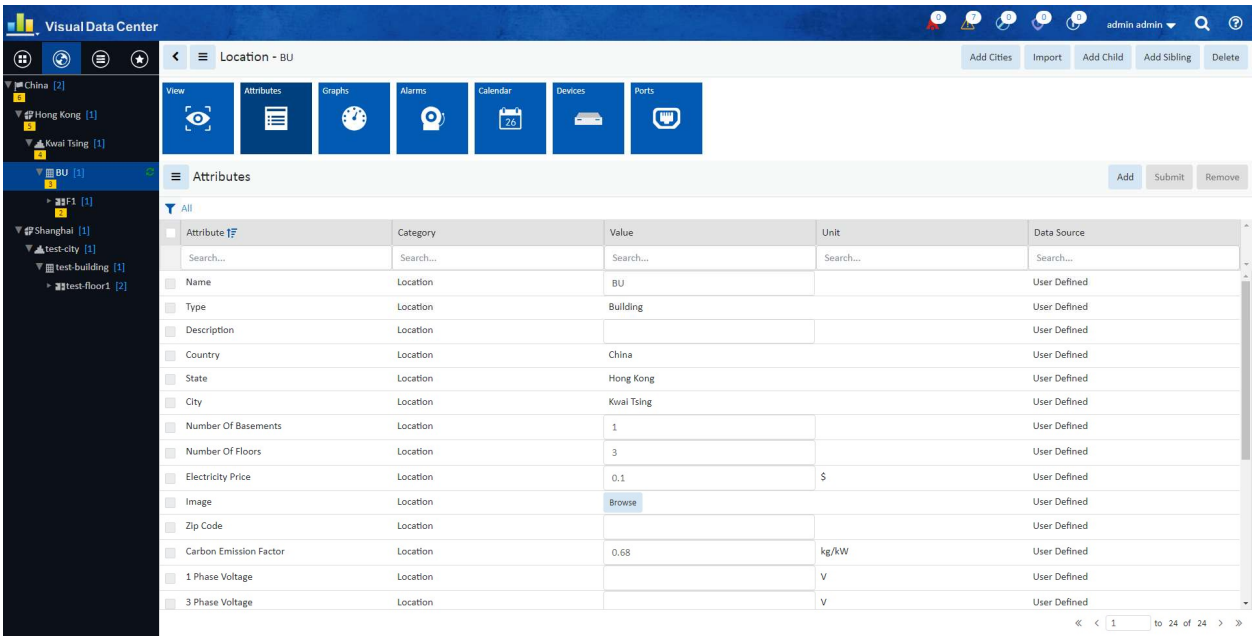
1) Users can use Add Cities to create country, state and city.



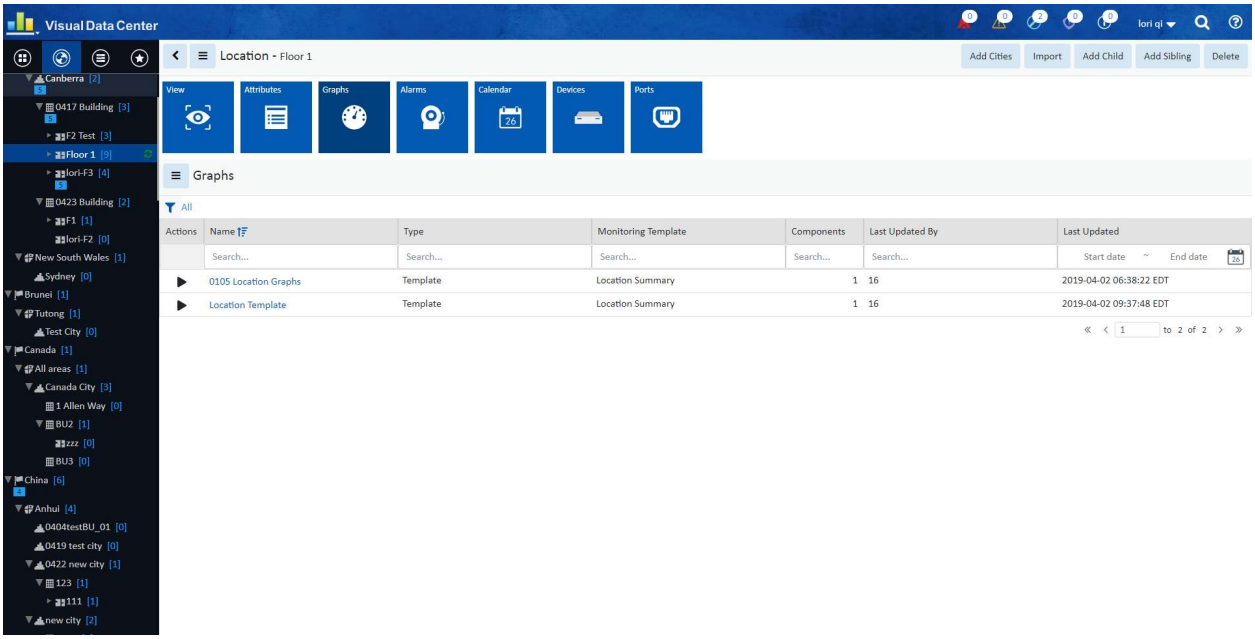
2) Users can use Add Child/Add Sibling to create building, floor and area nodes. Users can use Delete button to delete those nodes which are no longer in use.



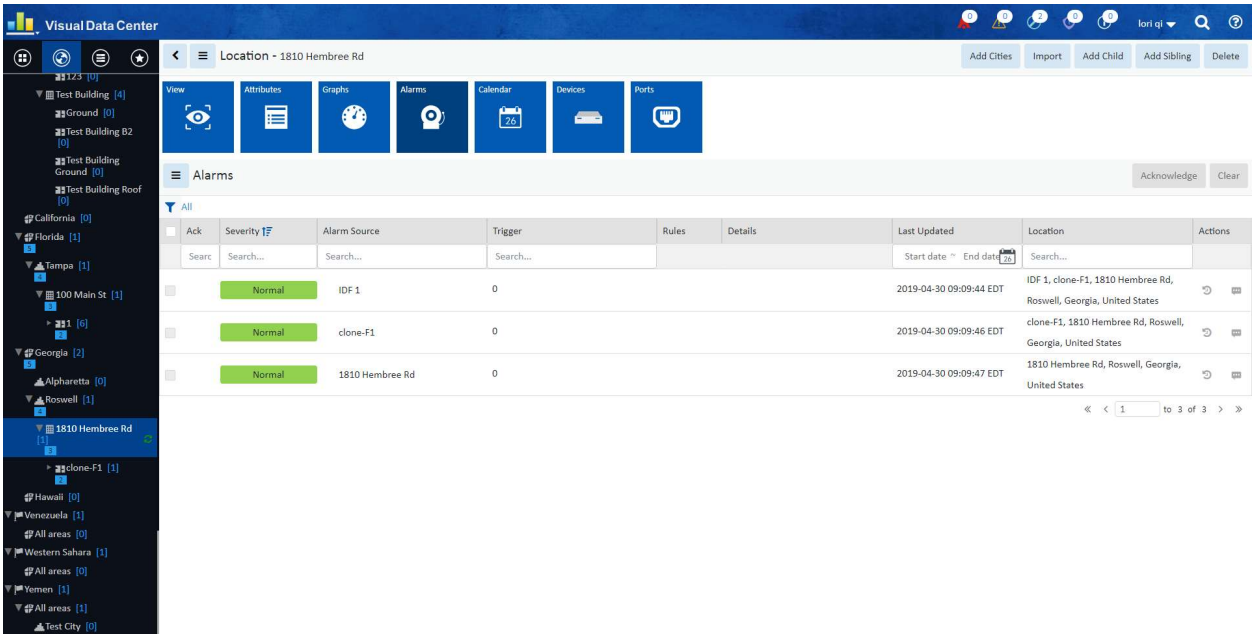
3) By clicking Attributes tile, users can add, modify or remove attributes for selected location node.



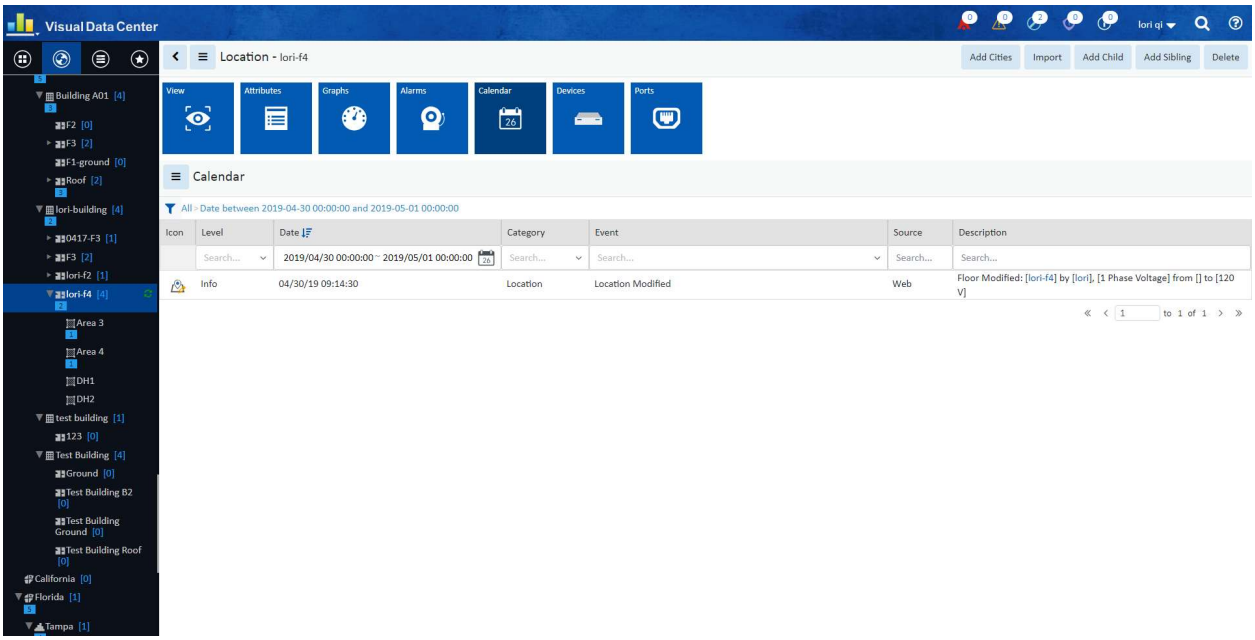
4) Graphs – Shows all graphs defined for selected location



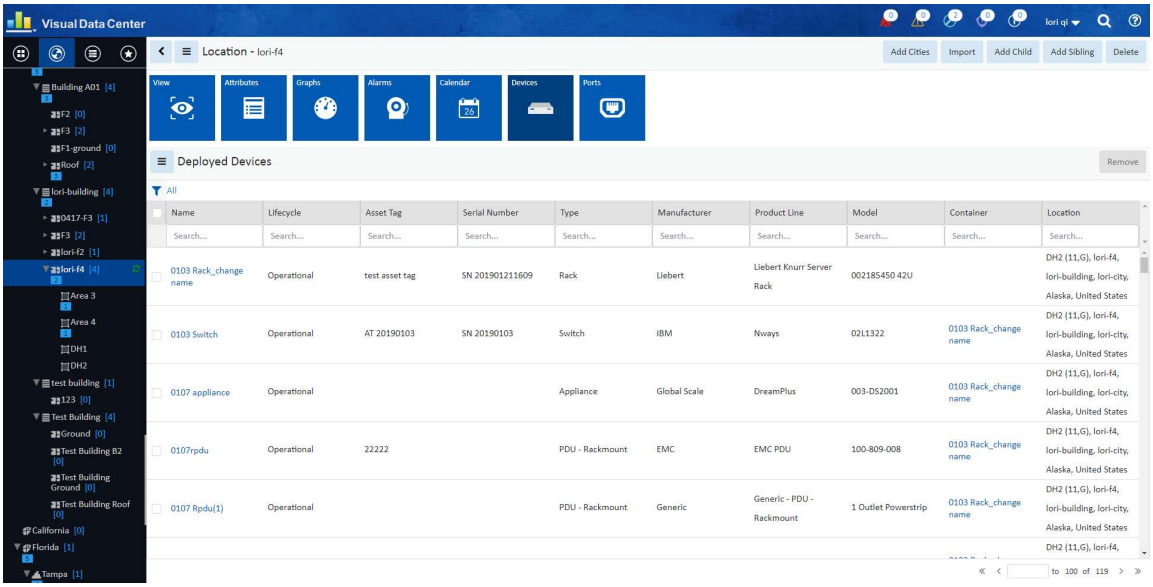
5) Alarms – All alarms generated for selected location and alarms for devices mounted in the selected location node.



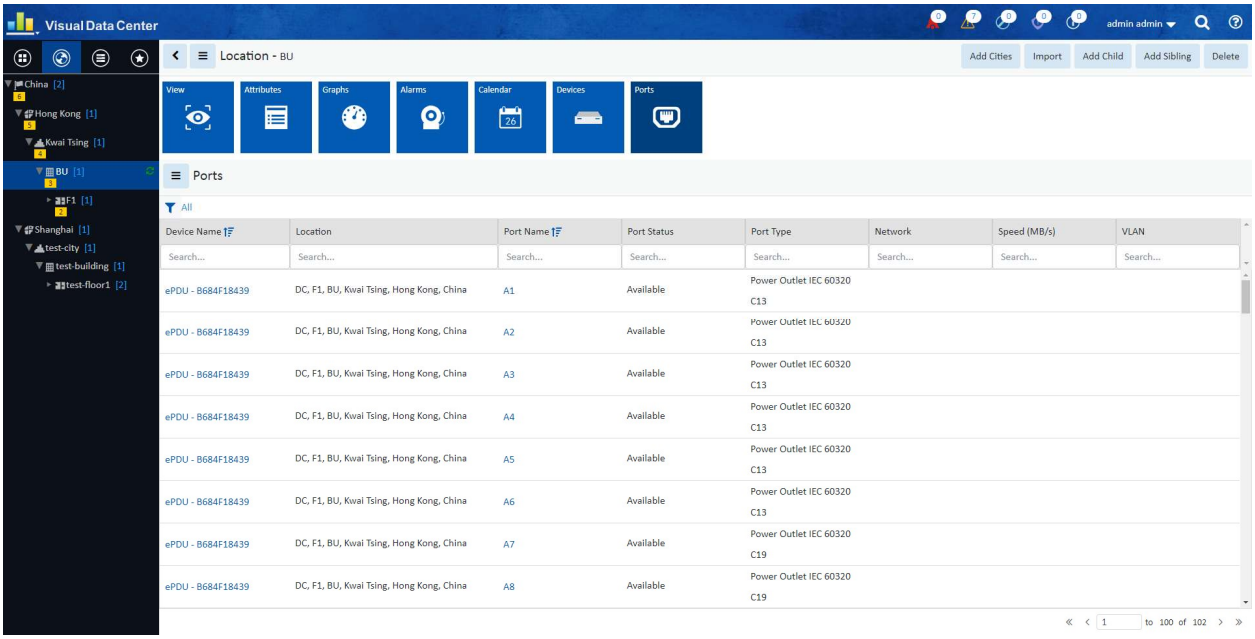
6) Calendar – Show all event logs generated for selected location.



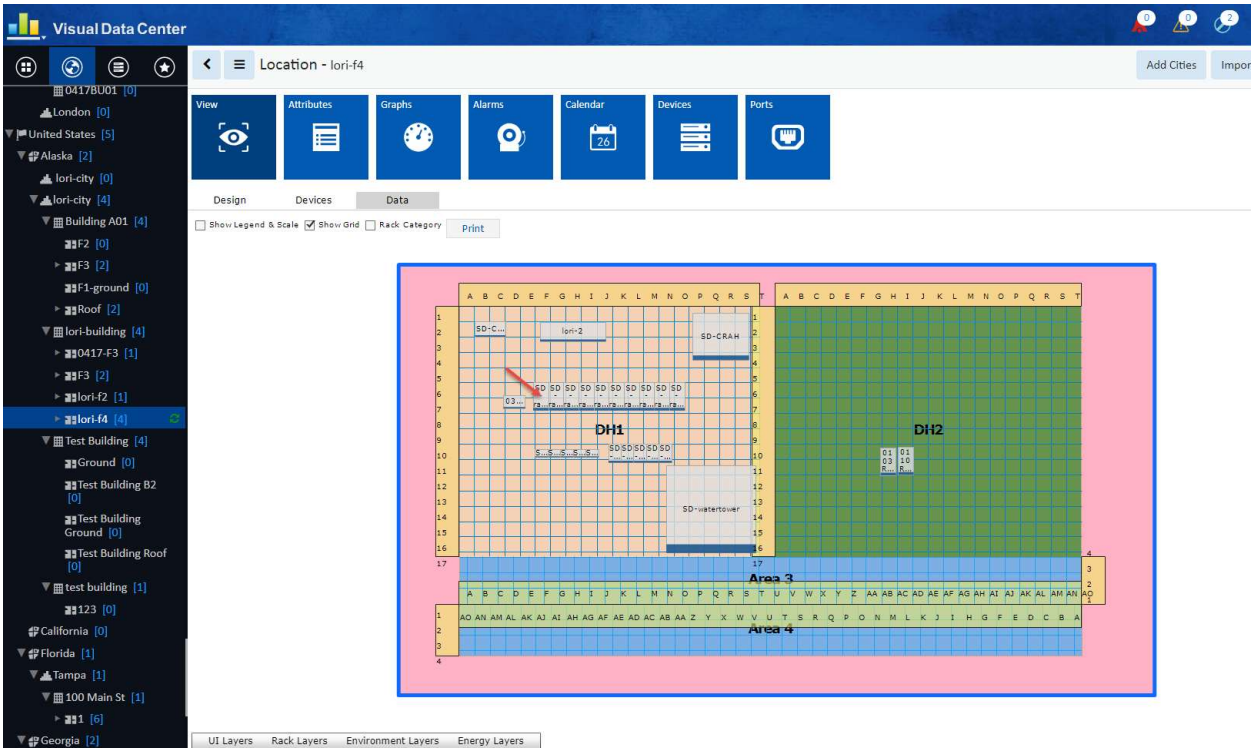
7) Devices – Show all devices mounted in the selected location. Users can click on the device name to open the device central.

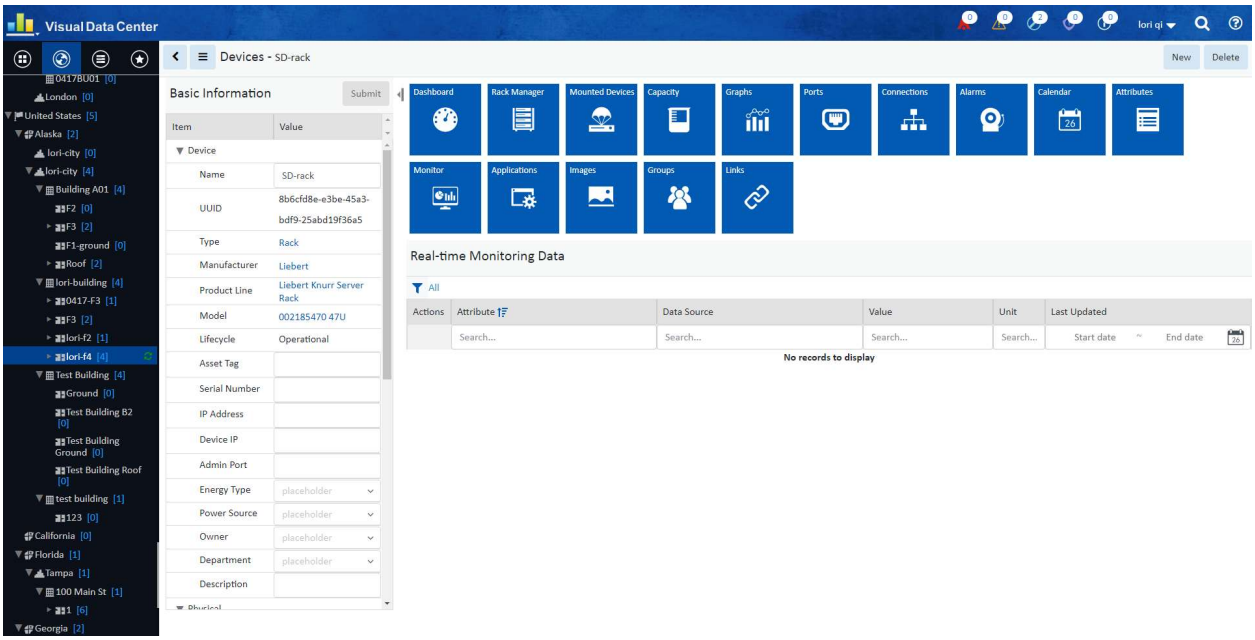


8) Ports – Show all device ports in selected location. Users can click on the port name to open the circuit trace. Users can click the device name to open device central.

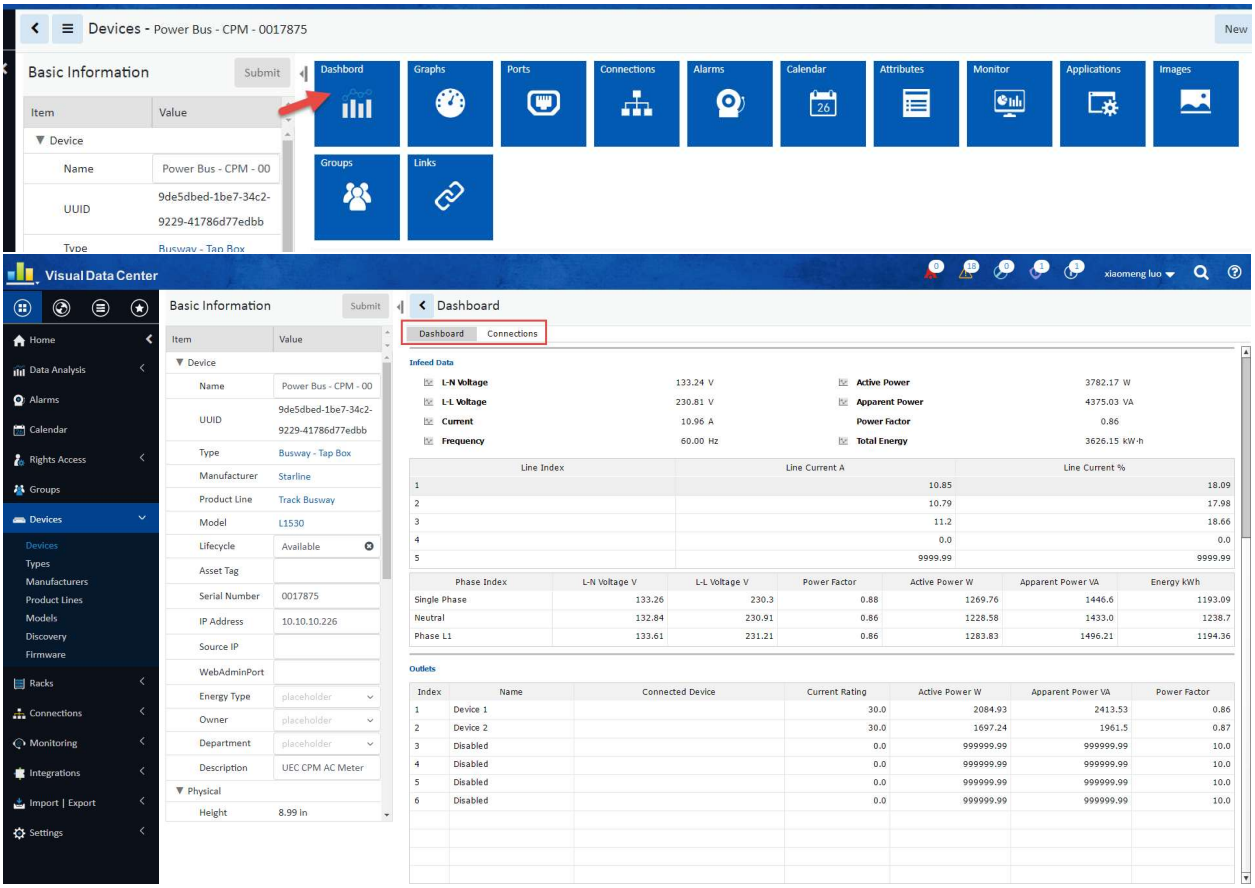


9) Devices and Ports are removed from the navigation tree. Users can open device central by double clicking on the device on the floor View page.

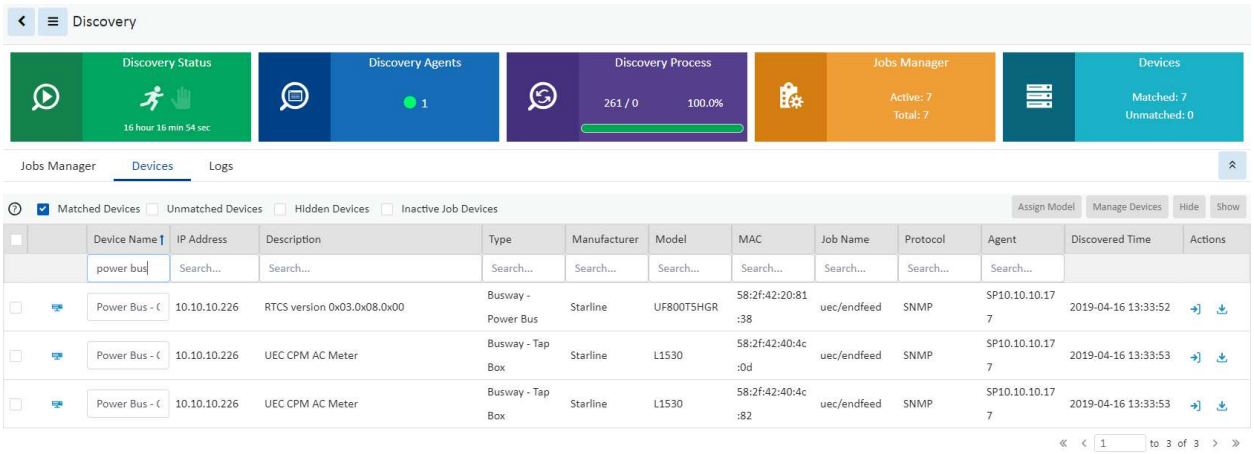




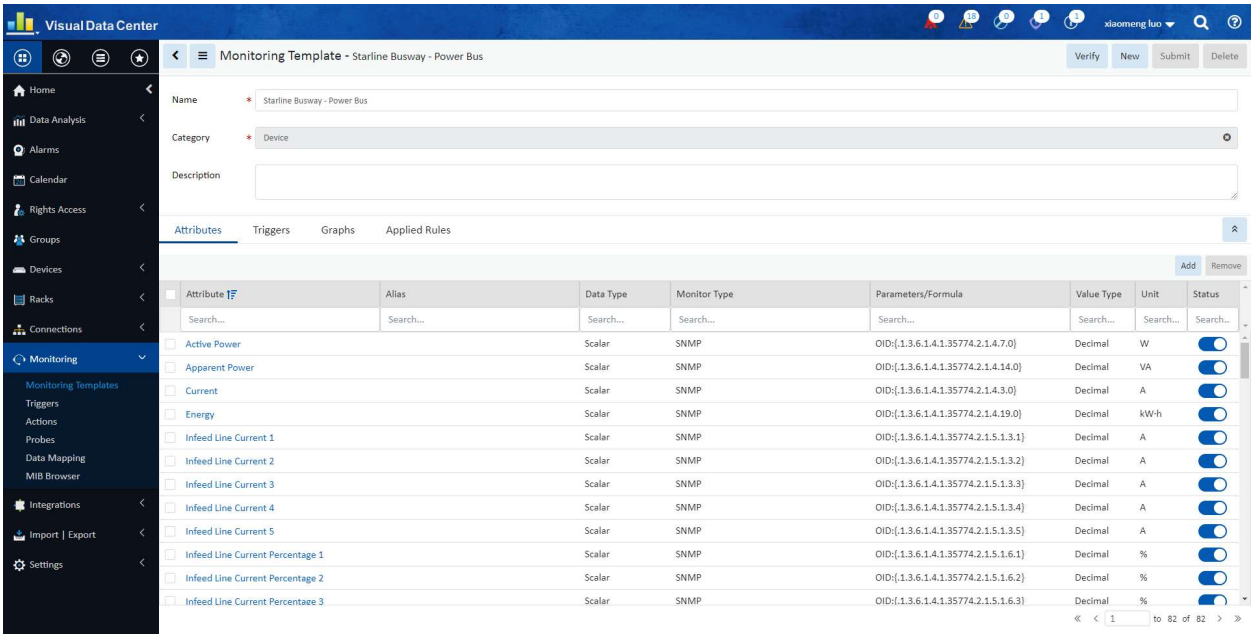
10) Users can open device Dashboard and Connections tab from device central -> Dashboard



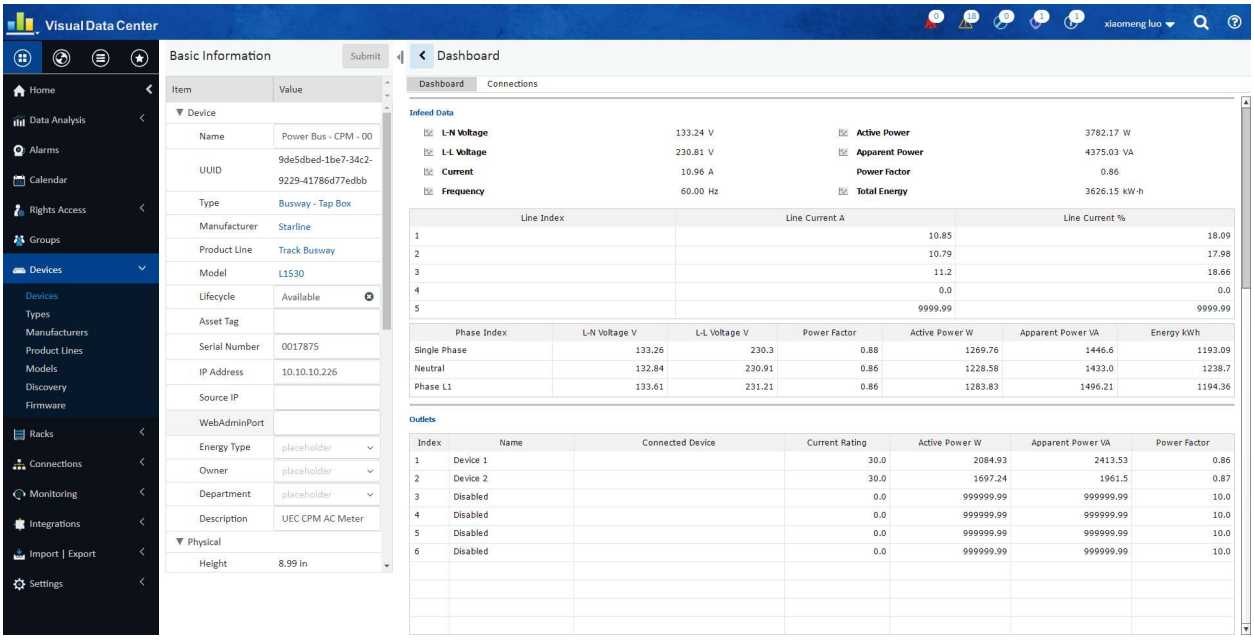
- **3362 WI: Support Starline Power Bus in Discovery**
  Added ability to discover Starline Power Bus and Tap Boxes.



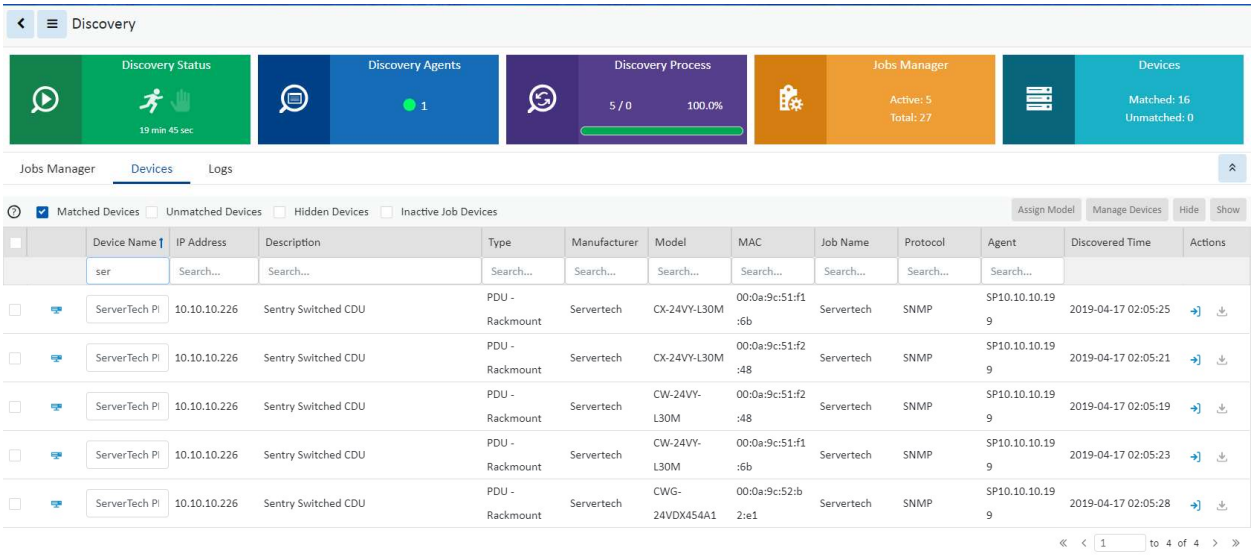
Added a monitoring template for Starline Power Bus and Tap Boxes.



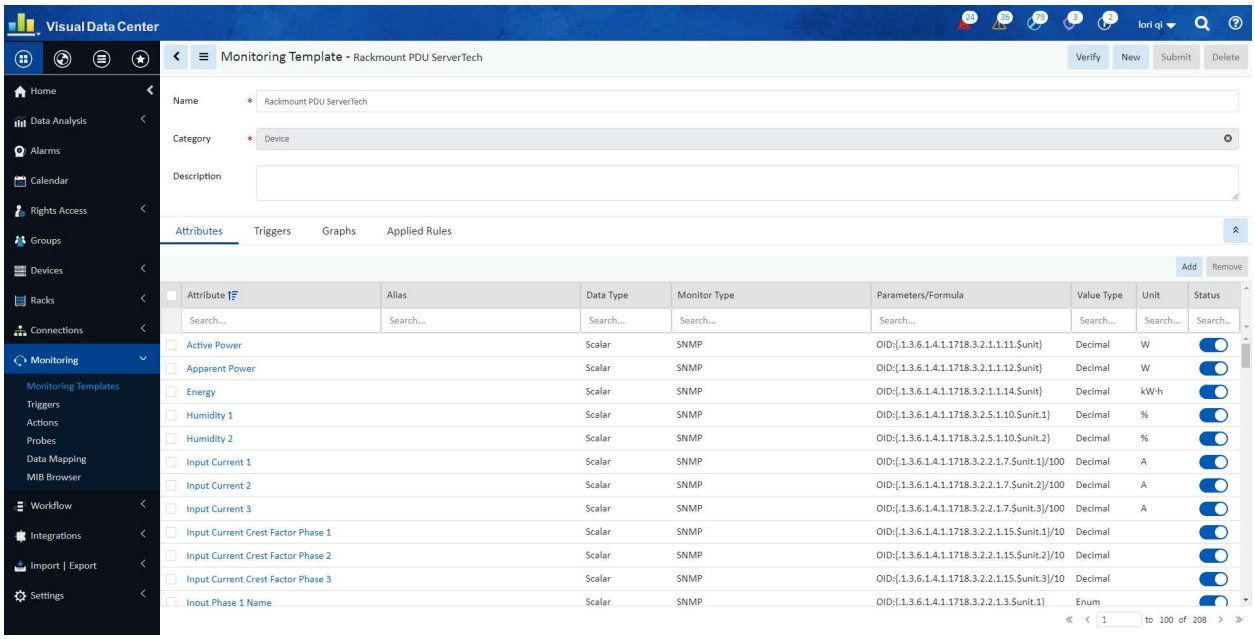
There is a corresponding dashboard for the devices.



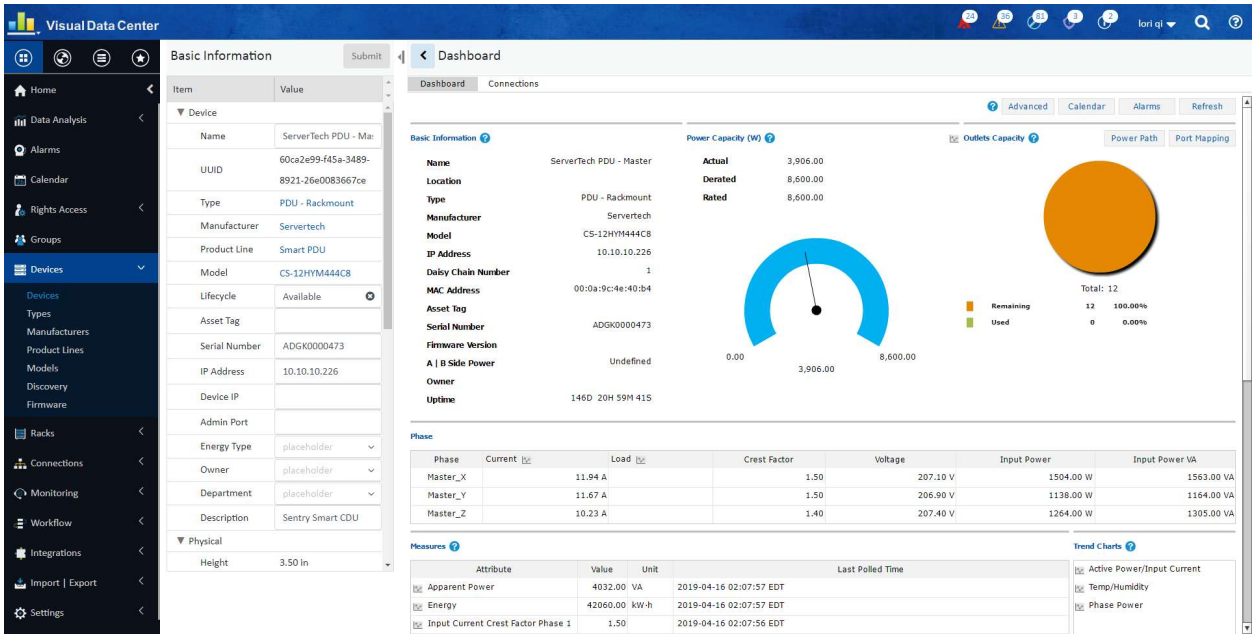
- **3363 WI: Support Server Tech PDU in Discovery**
  Added ability to discover Server Tech PDUs.



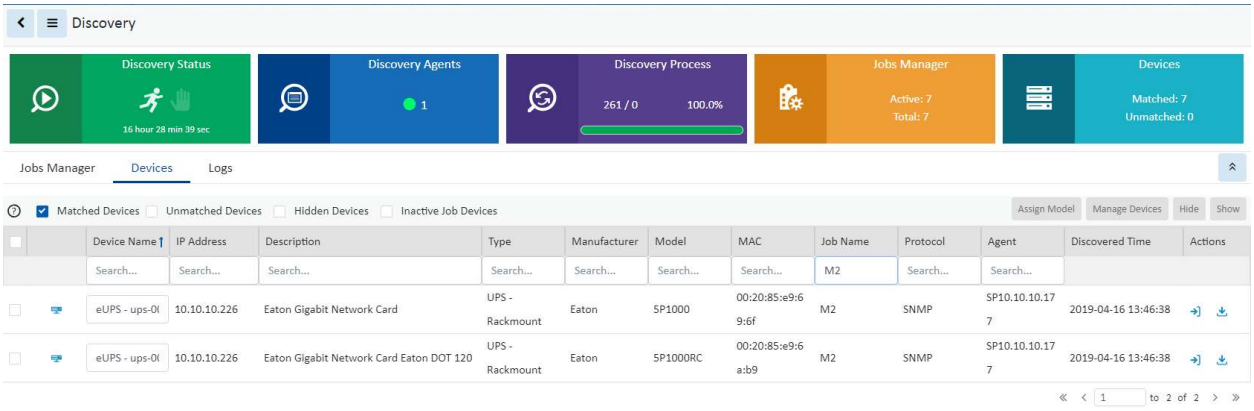
Added monitoring template for Server Tech PDU models.



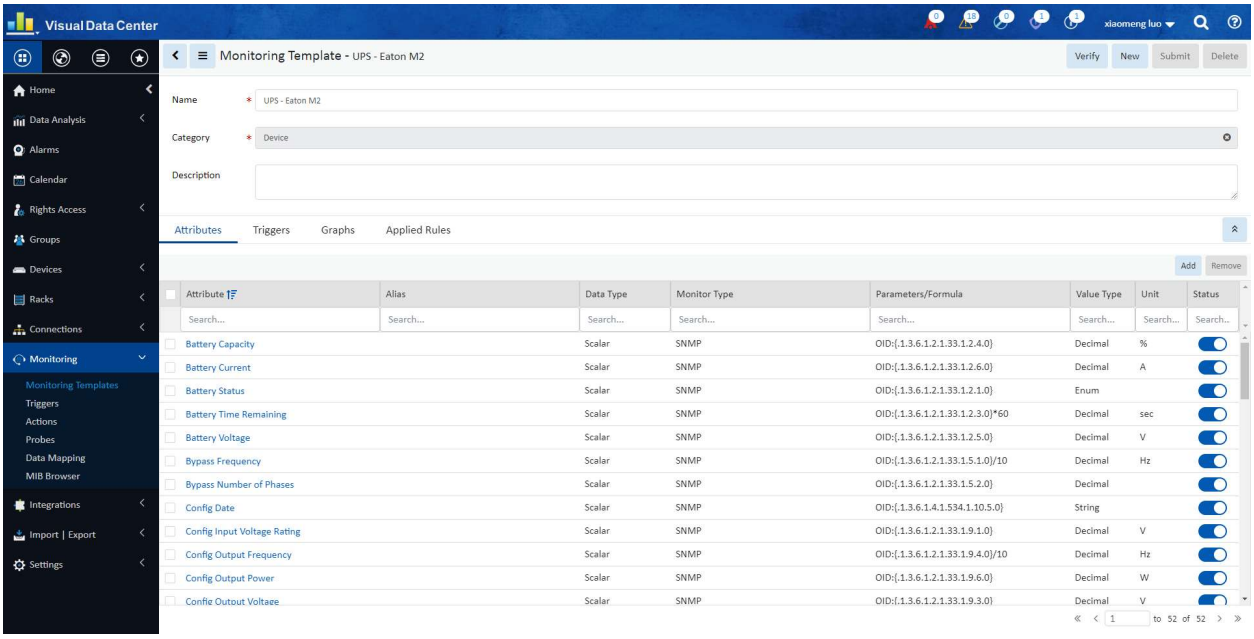
There is a corresponding dashboard for the devices.



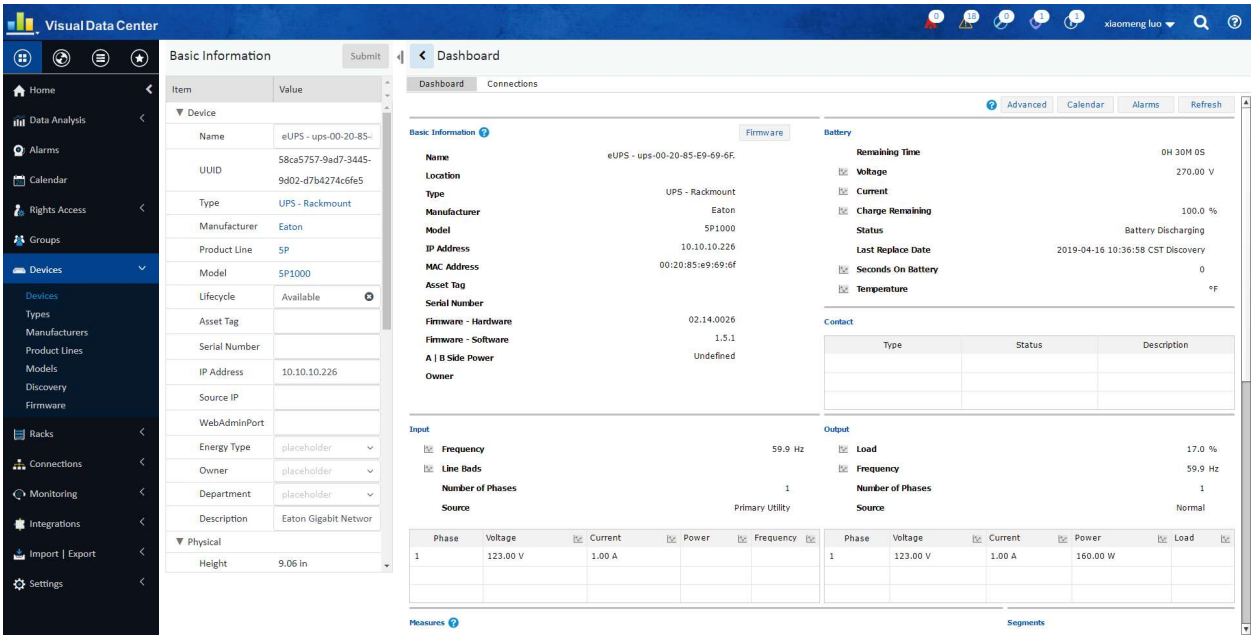
- **3364 WI: Support Eaton M2 UPS in Discovery**
  Added ability to discover Eaton M2 UPS.



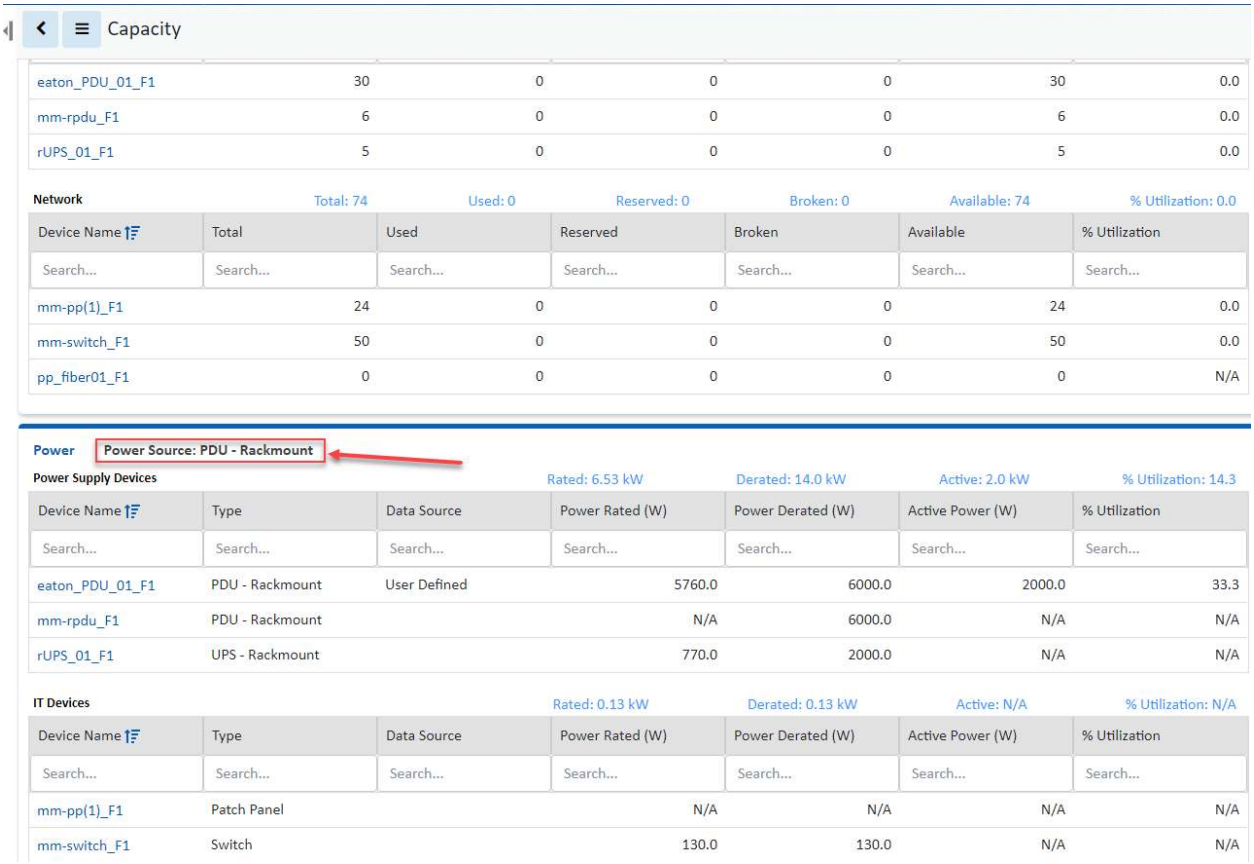
Added a monitoring template for the M2 network card devices.



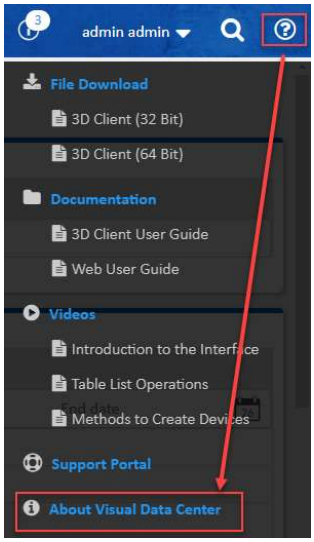
There is a corresponding dashboard for the devices.

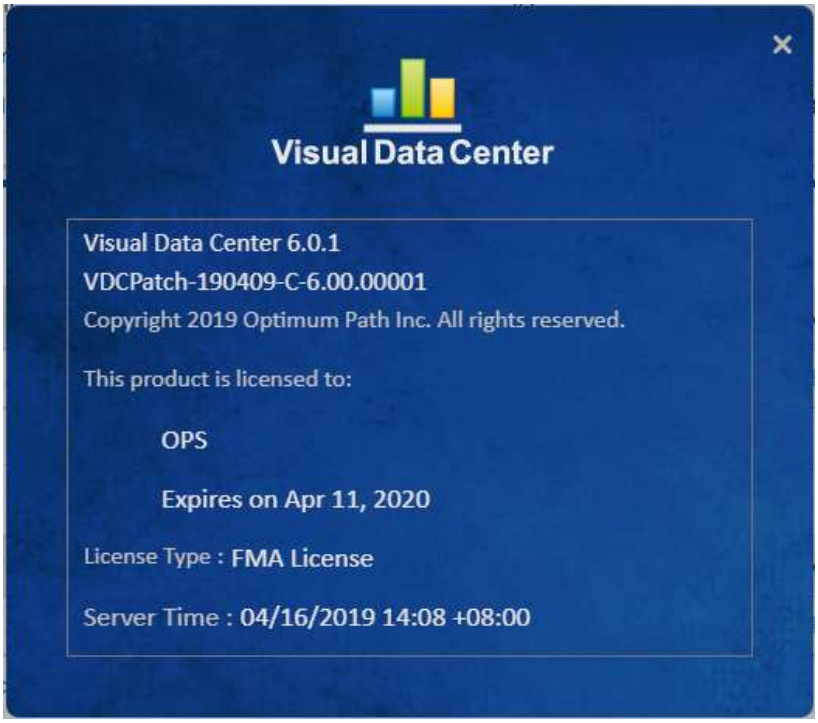


- **3365 WI: Add Power Source on Rack Capacity Dashboard**
  Power Source has been added to the Rack Capacity dashboard. The Power Source can be: PDU Rackmount, IT Devices, Rack Power, PDU or UPS Rackmount.



- **3366 WI: Add About Link to Help Page**
  Shows basic product information to help with troubleshooting:
  - Product Name and Current Version of the application
  - Specific build information which may help troubleshooting
  - Licensed customer
  - License expiration, license model (FMA or Device)
  - Server Time





- **3367 WI: Location Access Control List Enhancement**

  Every location needs to be assigned accesses. All locations have separate view and edit access.

  1. View Access

     View this location on the navigation tree and the details page:

     a. Map/Floor View: Limited the data by devices access
     b. Site/Summary
     c. Attributes
     d. Graphs: Limited the data by devices access
     e. Alarms: Limited the data by devices access
     f. Calendar: Limited the data by devices access
     g. Deployed Devices: Limited the data by devices access
     h. Ports: Limited the data by devices access

  2. Edit Access

     Building

     1) Modify name and attributes
     2) Create children

     Floor:

     1) Modify name and attributes
     2) Create children
     3) Define floor shape
     4) Deploy devices

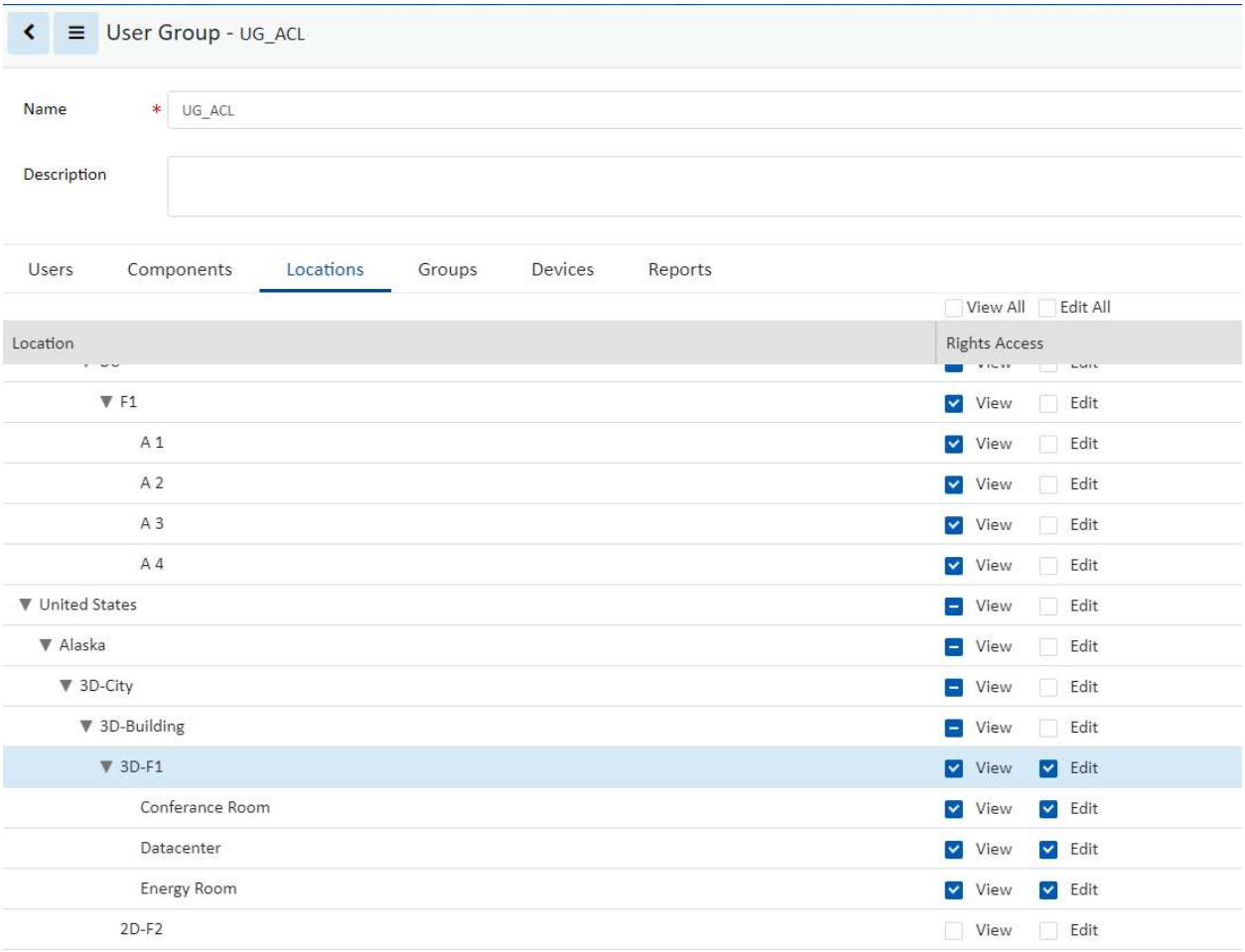
     Area:

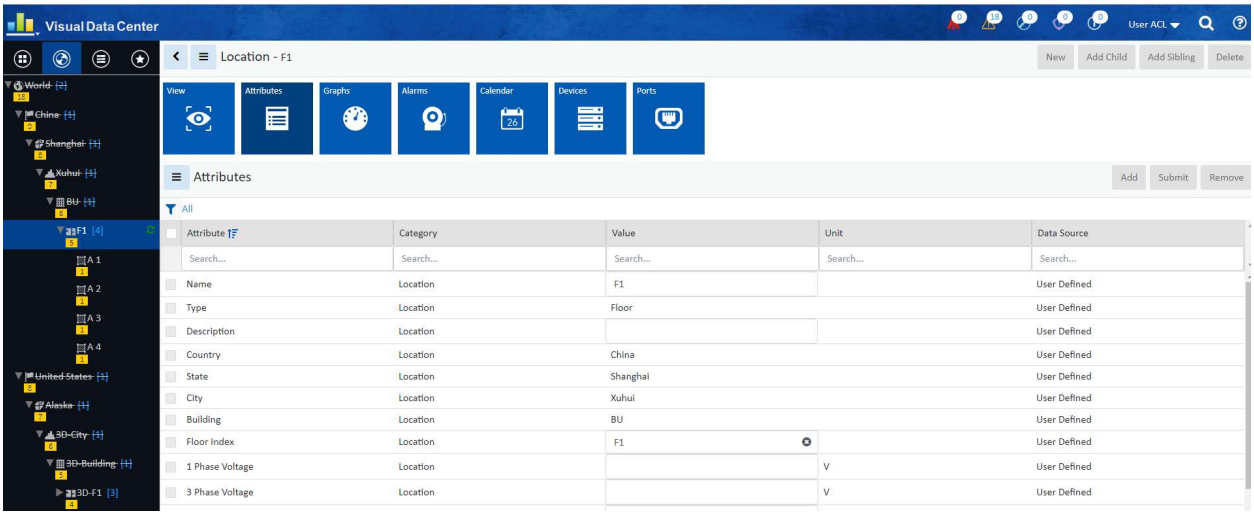
     1) Modify name and attributes
     2) Deploy devices

  4. Path View

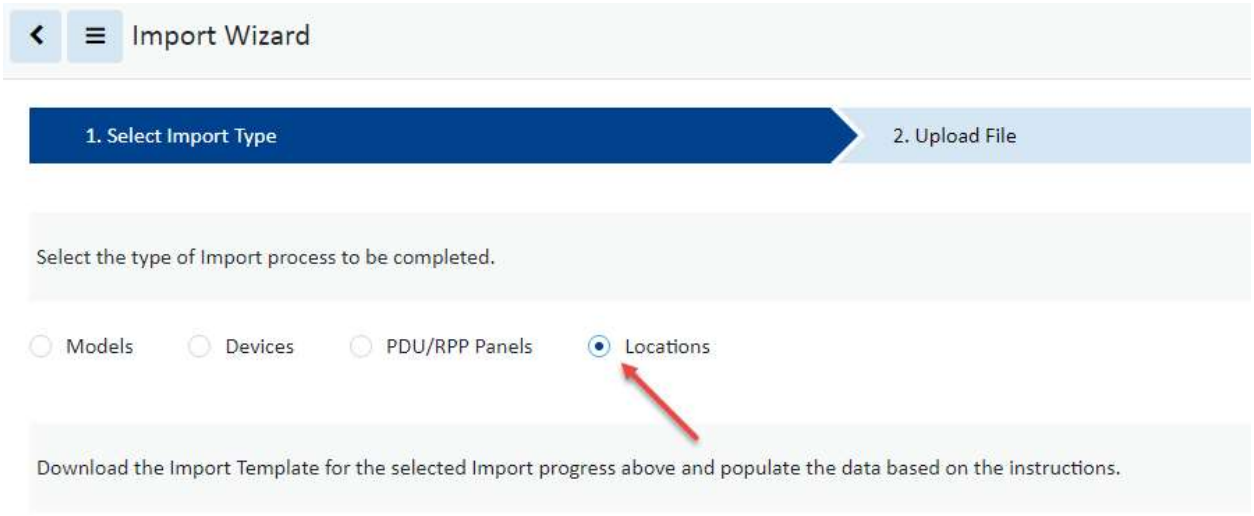
     User doesn't have View access to a node, but user has View access to its sub-nodes

     User will can see the node on the tree but it is disabled and user cannot see details of the node


User Group - UG_ACL
Name * UG_ACL
Description
Users Components Locations Groups Devices Reports
View All Edit All
Location Rights Access
F1 View Edit
A 1 View Edit
A 2 View Edit
A 3 View Edit
A 4 View Edit
United States View Edit
Alaska View Edit
3D-City View Edit
3D-Building View Edit
3D-F1 View Edit
Conferance Room View Edit
Datacenter View Edit
Energy Room View Edit
2D-F2 View Edit

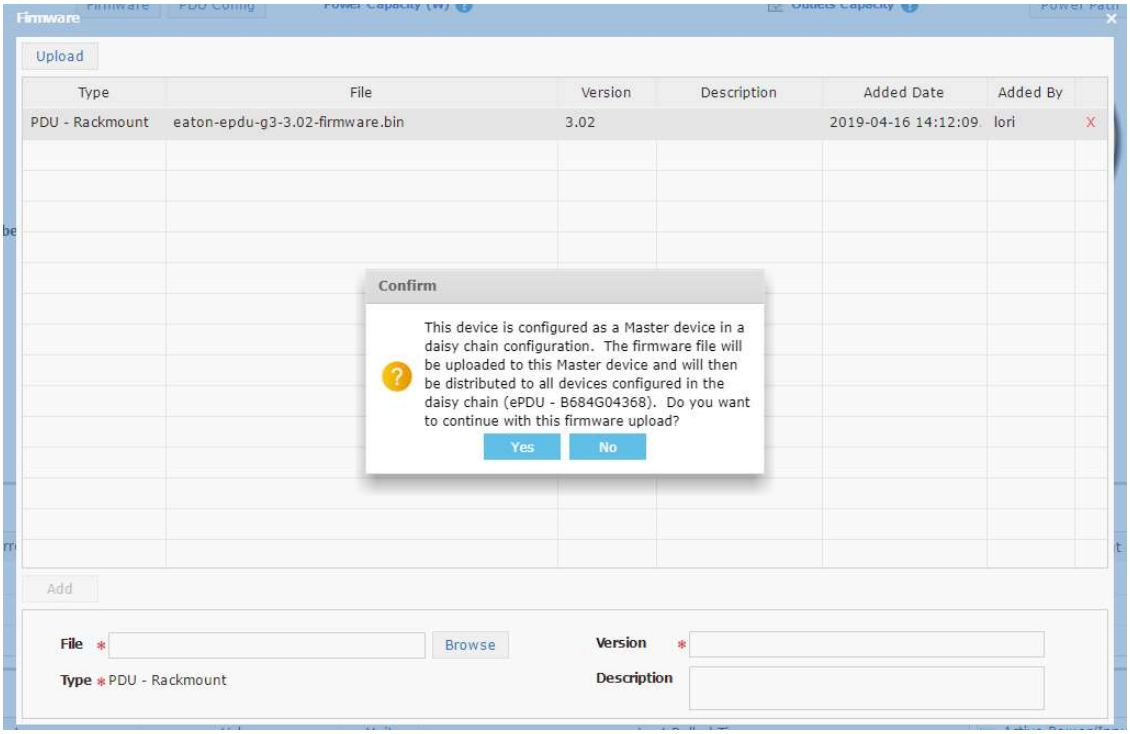

Visual Data Center
Location - F1
New Add Child Add Sibling Delete
View Attributes Graphs Alarms Calendar Devices Ports
Attributes
Add Submit Remove
Attribute Category Value Unit Data Source
Name Location F1 User Defined
Type Location Floor User Defined
Description Location User Defined
Country Location China User Defined
State Location Shanghai User Defined
City Location Xuhui User Defined
Building Location BU User Defined
Floor Index Location F1 User Defined
1 Phase Voltage Location V User Defined
3 Phase Voltage Location V User Defined

- **3368 WI: Support Import Navigation Tree Nodes**
  Location nodes can now be created by import. Users can open Import Central to import locations.

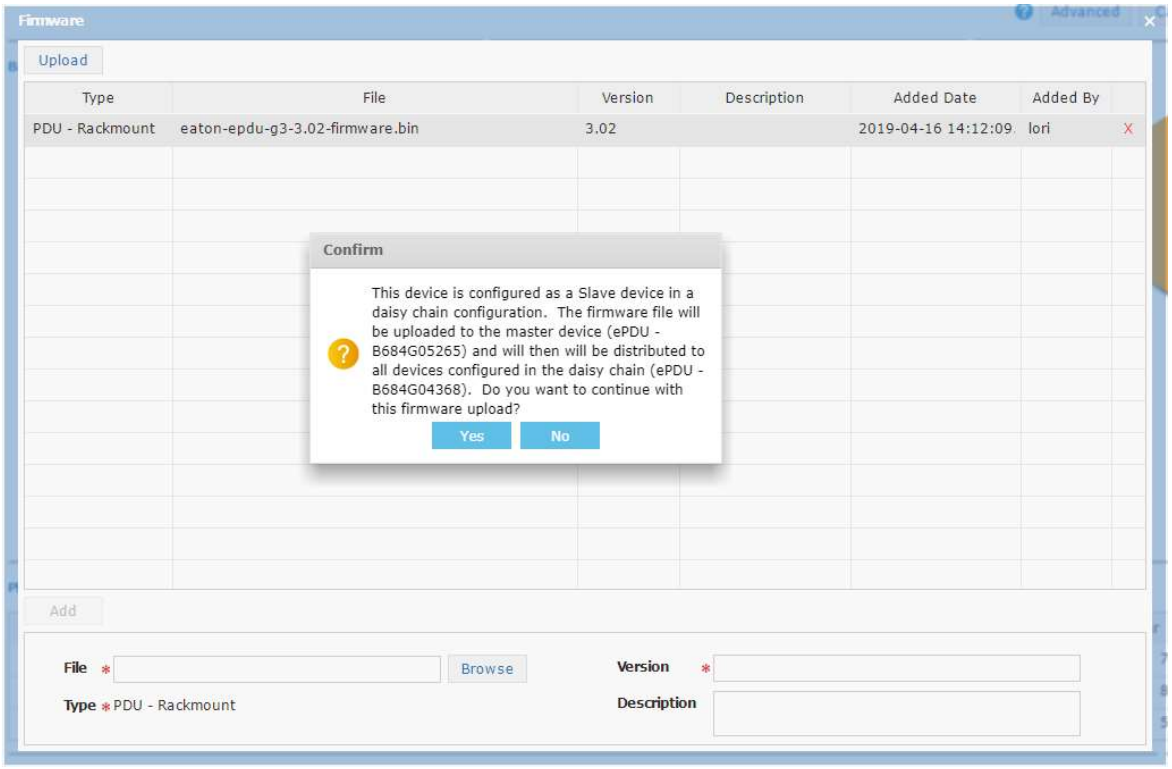


- **3369 WI: Daisy Chain Firmware Push**
  When uploading firmware to daisy chained devices messages inform you how the firmware will be distributed.

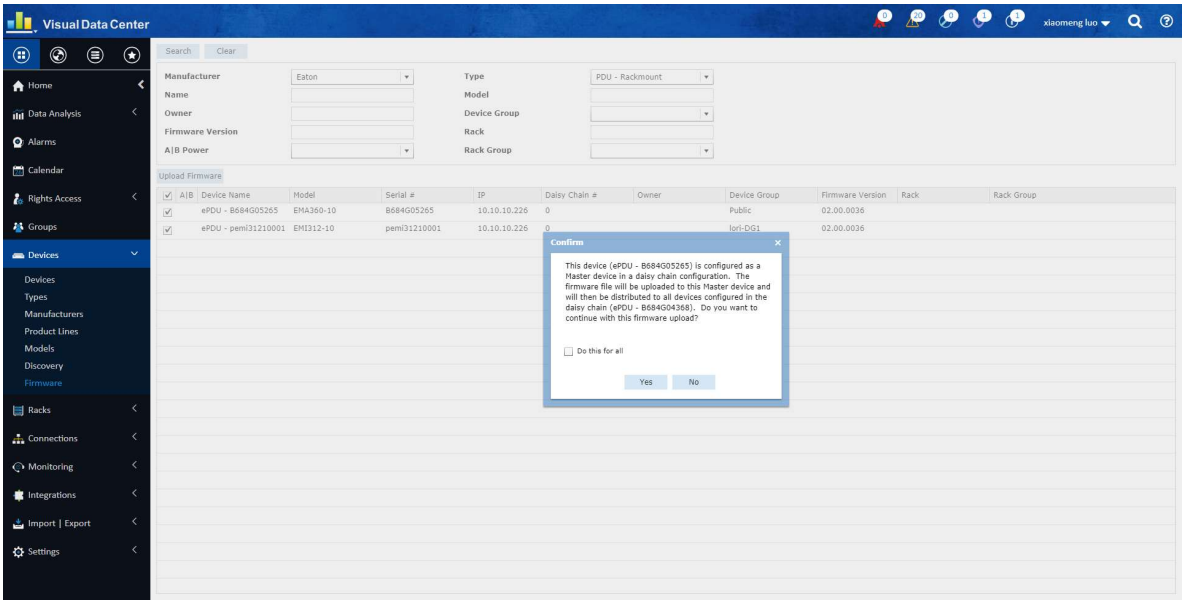
  If you upload to the master device the message informs you how it will be distributed to the other devices in the daisy chain.



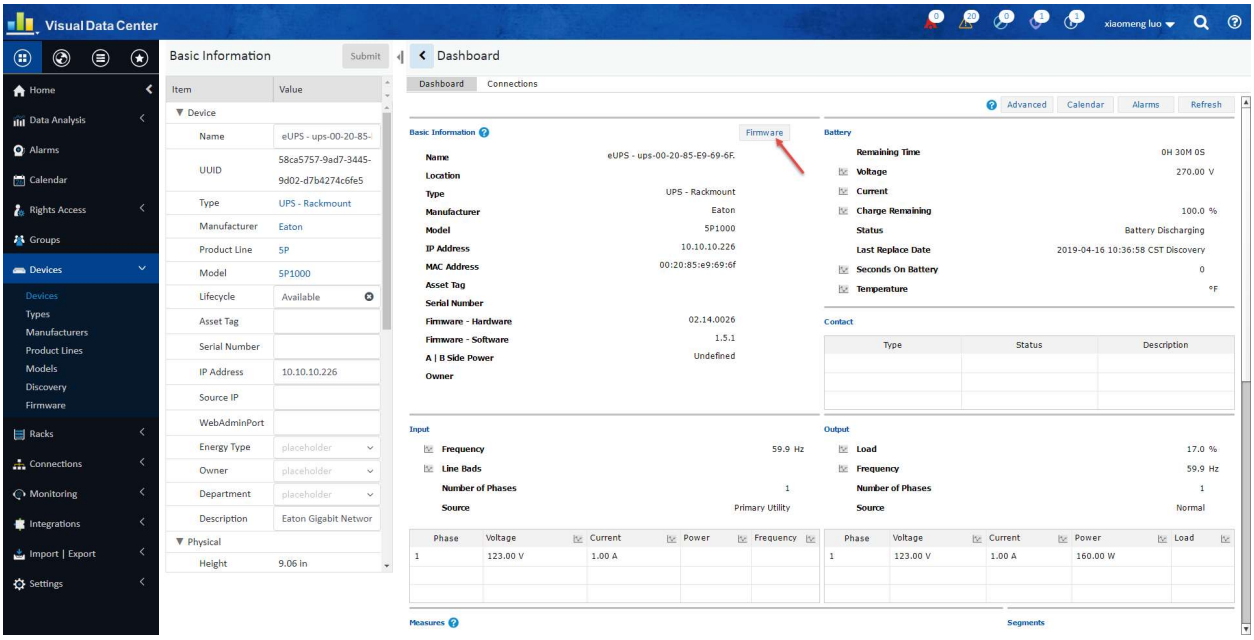
If you upload to a slave in the daisy chain, the message informs you of the device's status and how the firmware upload will go to the master first and the distributed to devices in the daisy chain.

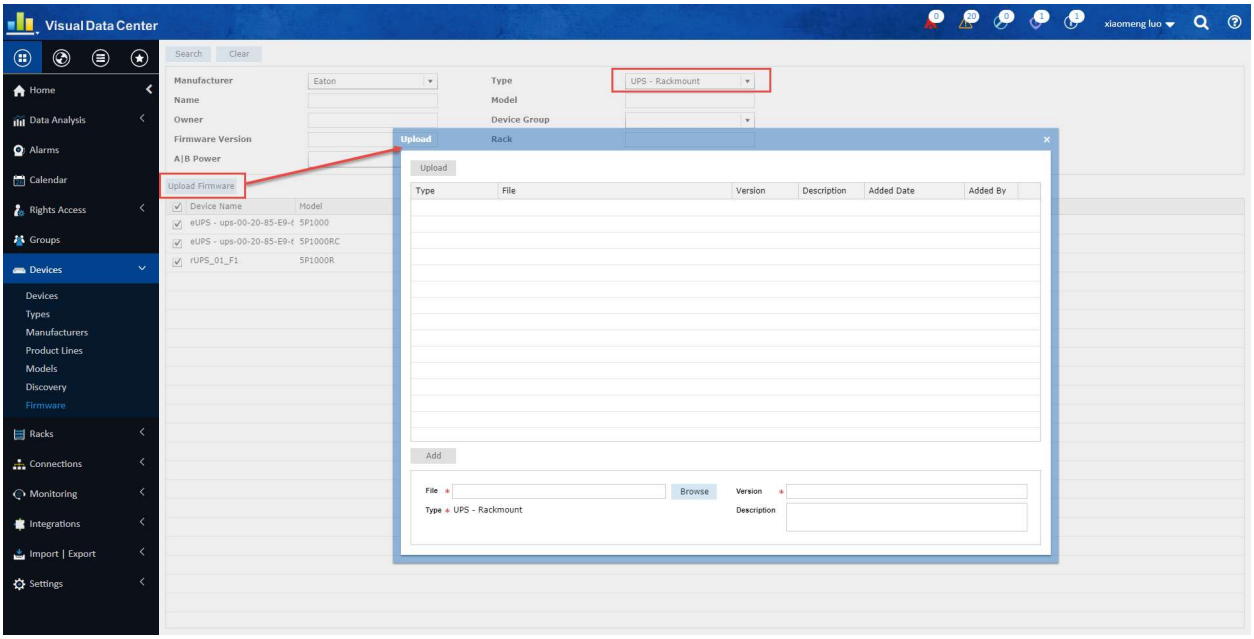


Bulk Firmware Upload – Only shows the master devices. It does not show the slave units.

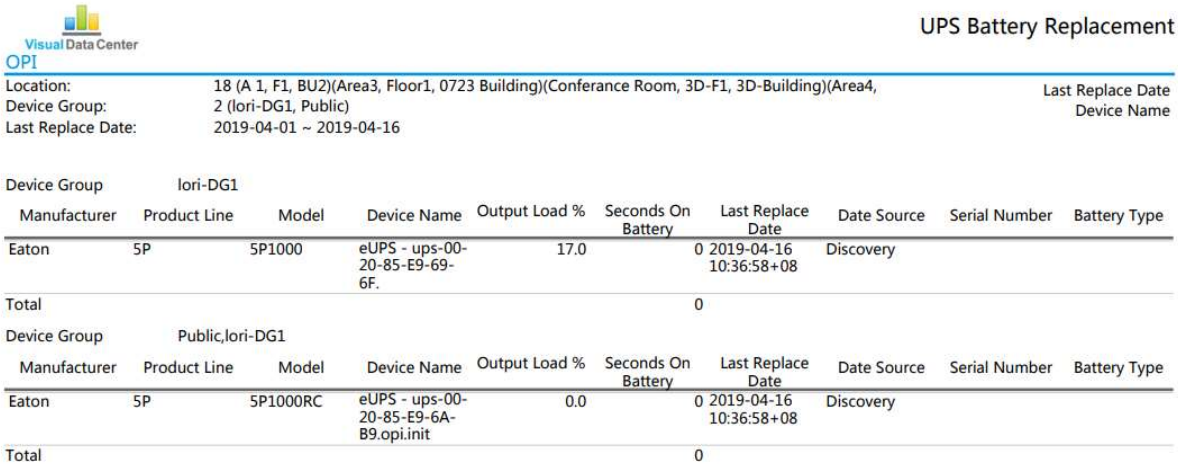


- **3370 WI: Support firmware and load segment controls for both models of cards in Eaton devices**





- **3378 Update UPS Battery Replacement Report**
  Update Asset -> UPS Battery Replacement report. There should be no special +3 years logic in this report. Compare the From/To dates to the Laster Replace Date attribute on the device and return UPS devices which meet the criteria.



Visual Data Center

UPS Battery Replacement

OPI

Location: 18 (A 1, F1, BU2)(Area3, Floor1, 0723 Building)(Conferance Room, 3D-F1, 3D-Building)(Area4,
Device Group: 2 (lori-DG1, Public)
Last Replace Date: 2019-04-01 ~ 2019-04-16

Last Replace Date
Device Name

Device Group lori-DG1

Manufacturer	Product Line	Model	Device Name	Output Load %	Seconds On Battery	Last Replace Date	Date Source	Serial Number	Battery Type
Eaton	5P	5P1000	eUPS - ups-00-20-85-E9-69-6F.	17.0	0	2019-04-16 10:36:58+08	Discovery		
Total					0				

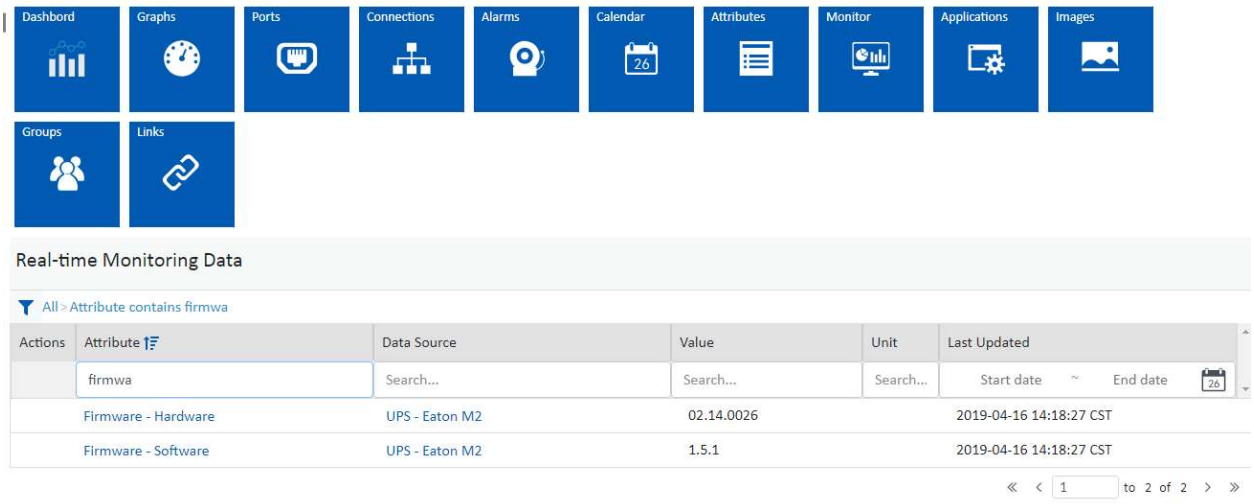
Device Group Public,lori-DG1

Manufacturer	Product Line	Model	Device Name	Output Load %	Seconds On Battery	Last Replace Date	Date Source	Serial Number	Battery Type
Eaton	5P	5P1000RC	eUPS - ups-00-20-85-E9-6A-B9.opi.init	0.0	0	2019-04-16 10:36:58+08	Discovery		
Total					0				

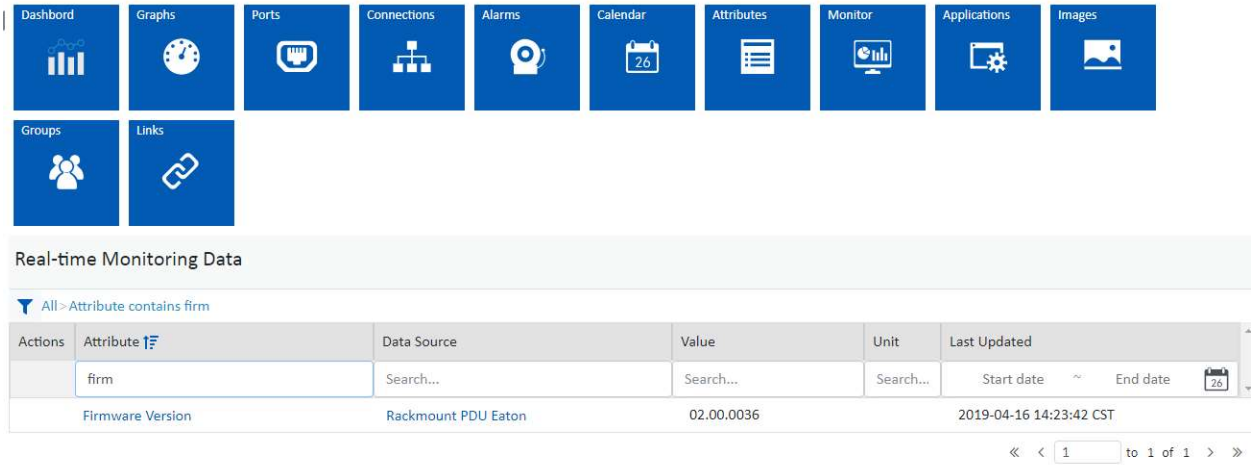
- **3381 WI: Add Firmware Version as Monitored Data Points**

  Added Firmware version as a monitored data point for Eaton PDU and Eaton UPS. After the firmware is updated, the Firmware version on the device dashboard will be updated in a probe interval.

  Eaton UPS



Eaton PDU


Dashbord
Graphs
Ports
Connections
Alarms
Calendar
Attributes
Monitor
Applications
Images
Groups
Links
Real-time Monitoring Data
All > Attribute contains firm
Actions
Attribute
Data Source
Value
Unit
Last Updated
firm
Search...
Search...
Search...
Start date
End date
Firmware Version
Rackmount PDU Eaton
02.00.0036
2019-04-16 14:23:42 CST
1
to 1 of 1

4. Version 6.0.0 New Features and Enhancements

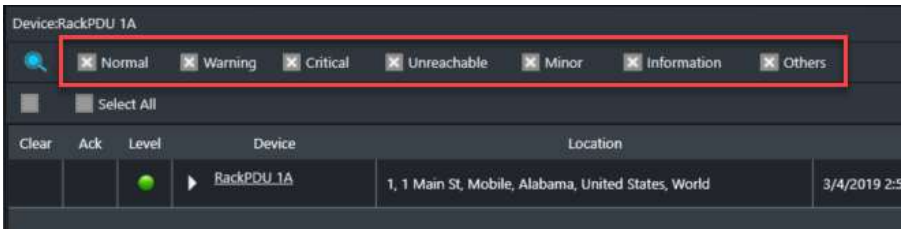
Version 6.0.0 represents a change of the web interface from Flash to HTML5. As such, there are major changes to the web interface and related usability of the features in that interface. Please refer to the v6.0.0 Web Interface User Guide to review the detail of the new web interface.

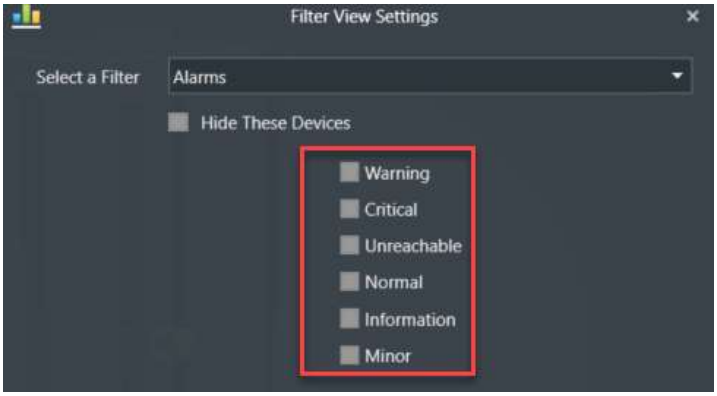
The following list of features, enhancements and changes are included in the 6.0.0 version of the product as related to the 3D client interface.

ID	Description
3338	Alarm Panel in Navigation Tree now includes 5 Levels
3339	Alarm Level Lists and Checkboxes Throughout the Application include All 5 Levels
3340	Web Interface link goes to Web Interface Home Page
3341	Calendar Function Ribbon Icon now links to Web Interface Calendar Page
3342	Capacity Planning changed to Capacity Planner
3343	Dashboard and Trend Chart Options Removed from Main Data and Replaced Throughout the Application
3344	VM Panel Icon and all VM Functions Have Been Removed
3345	Schedule Tool Icon Removed
3346	Triggers have Replaced Thresholds
3347	Layer View now has Broken Fiber, Network and Power Ports in List
3348	Location History Removed from the Floor > Services Tab
3349	Device Central Changes
3350	Alarm LEDs Removed from Home Page Site Data
3351	Camera Studio Icon Removed from Function Ribbon

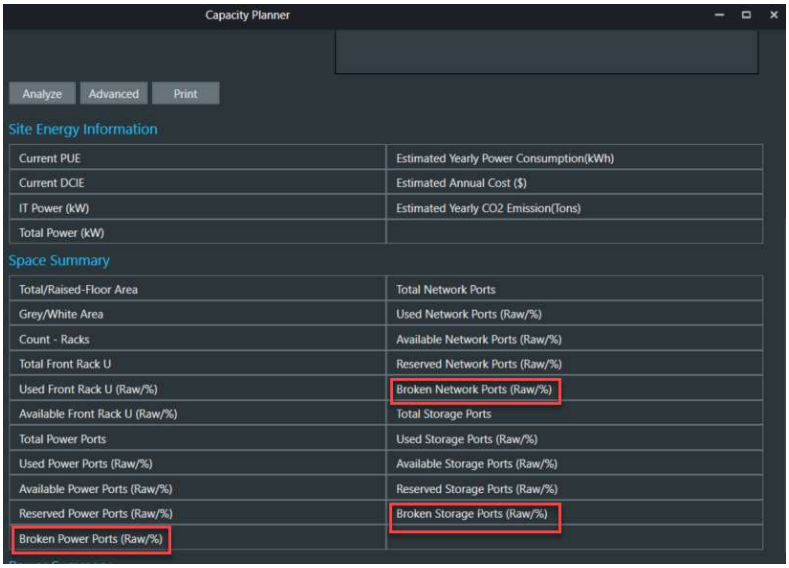
- **3338 Alarm Panel in Navigation Tree now includes 5 Levels**
  Under each location node of the navigation tree are the summary count of alarms for that node. There are 5 possible alarm types: Critical (red), Warning (yellow), Unreachable (blue), Minor (lavender) and Information (light blue). The device counts are aggregated for all locations under the selected node. The summary count boxes are only colorized when the value is greater than 0. Note: The alarm indicators will not appear under the device or port nodes of the tree. The Alarm count information will be automatically updated every 5 minutes, but users can choose to refresh manually to get updated data between the auto refresh cycles.

- **3339 Alarm Level Lists and Checkboxes Throughout the Application include All 5 Levels**





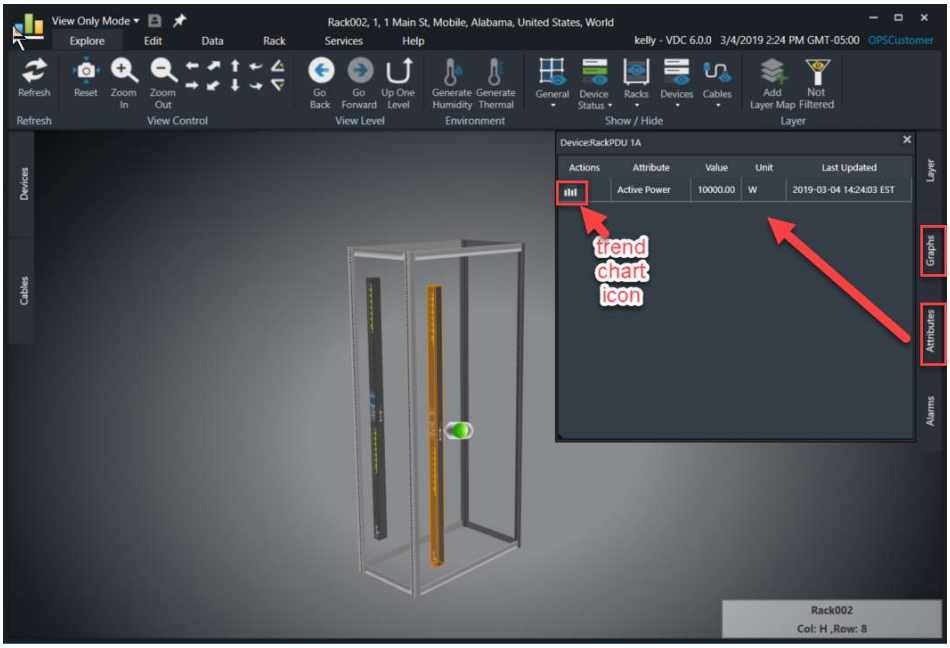
- **3340 Web Interface link goes to Web Interface Home Page**
  Previously the web interface link had two options Administration and Navigation. Now it goes directly to the web interface home page.
- **3341 Calendar Function Ribbon Icon now links to Web Interface Calendar Page**
  Previously the 3D client had its own version of the calendar. Now the Calendar
- **3342 Capacity Planning changed to Capacity Planner**
  Previously Capacity Planning icon had two options What If Analysis and Power Project Plan. Now it goes directly to Capacity Planning. The Power Project Plans are in the web interface in the Data Analysis menu group. Broken power, network and storage ports are now listed on the Capacity Planner summary page.



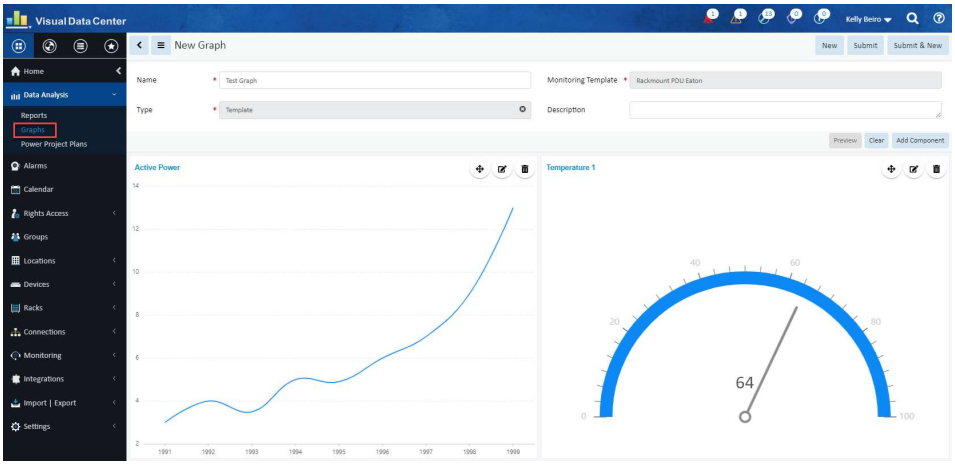
- **3343 Dashboard and Trend Chart Options Removed from Main Data and Replaced Throughout the Application**

  Dashboards and Trend charts are now referred to as Graphs and Attributes. The options have been removed from the drop-down list under Main Data. In other areas of the application the term Dashboards has been replaced with Graphs and Trend Charts replaced with Attributes.

  The image below shows the contents of the Attributes (formerly Trend Charts) right side tab containing the monitored attributes for the selected device with icons for the associated trend charts. The Graphs right side tab link opens the Graphs page for the selected device in the web interface.



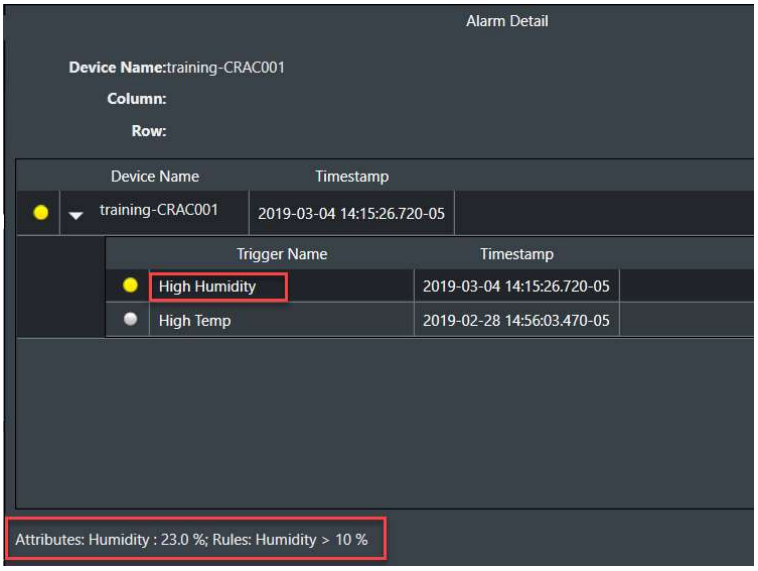
Graphs are created and edited in the web interface. The Graphs menu item is available in the Data Analysis menu group or from the Graphs function tile on the web interface Device Central page for the device.



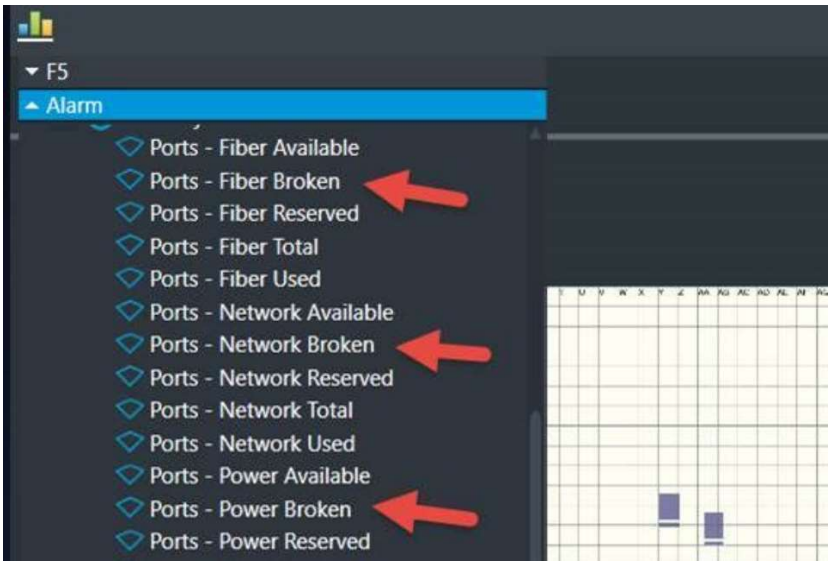
- **3344 VM Panel Icon and all VM Functions Have Been Removed**
  The VM Panel Icon has been removed from the function ribbon. All references to VM functions have been removed from the application.

- **3345 Schedule Tool Icon Removed**
  The Schedule Tool Icon has been removed from the function ribbon.

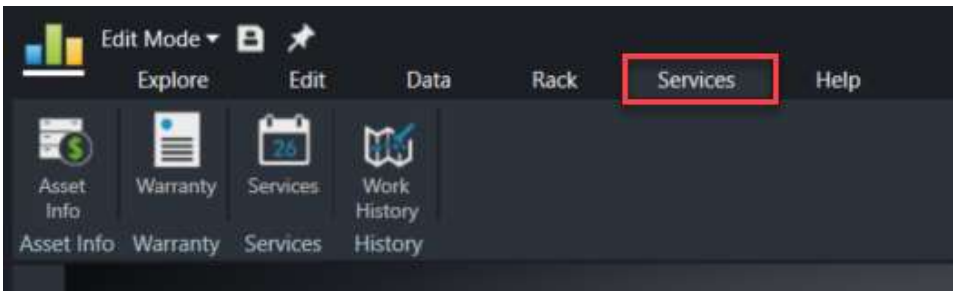
- **3346 Triggers have Replaced Thresholds**
  Triggers are defined to indicate Alarm conditions. The trigger definition is included in Alarm messages and descriptions.



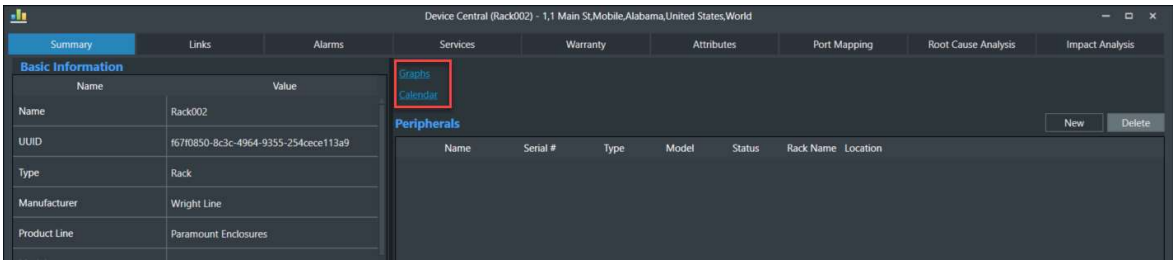
- **3347 Layer View now has Broken Fiber, Network and Power Ports in List**



- **3348 Location History Removed from the Floor > Services Tab**
  Previously there was a Location History icon next to Work History. It has been removed.



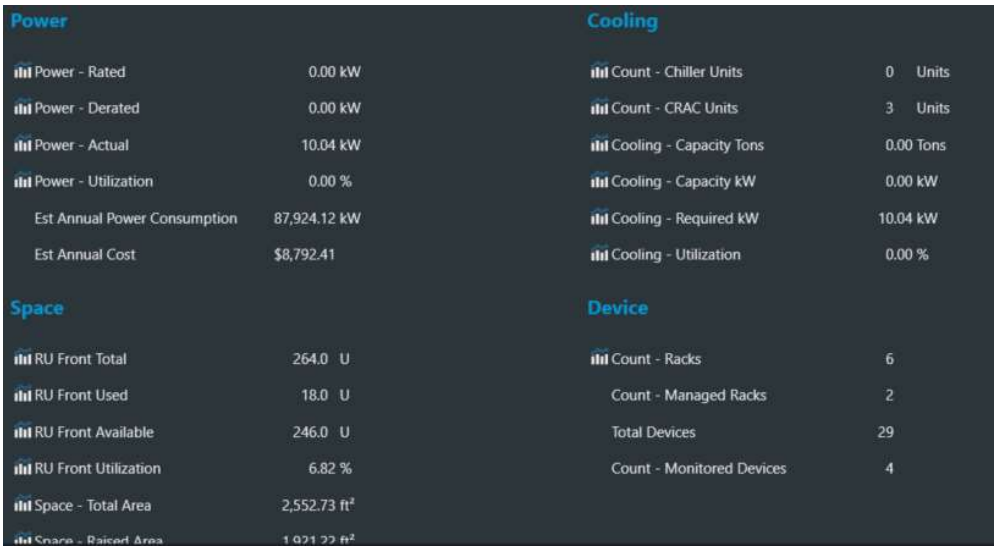
- **3349 Device Central Changes**
  The Dashboards and Trend Charts and Calendar tabs have been removed. Graphs and Calendar links have been added. The Graphs link opens the web interface Graphs page for the selected device. The Calendar link opens the web interface Calendar page for the selected device.



- **3350 Alarm LEDs Removed from Home Page Site Data**

  Previously

  Now



- **3351 Camera Studio Icon Removed from Function Ribbon**

  The Camera Studio functionality is now available in the web interface from the Integration menu group > Camera Studio menu item. There is no longer access from the 3D Client.