



*Powering Business Worldwide*

# Visual Capacity Optimization Manager

*Cumulative Release Notes*

**Release 6.0.1**

Version 1

**May 2019**

## 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. 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.

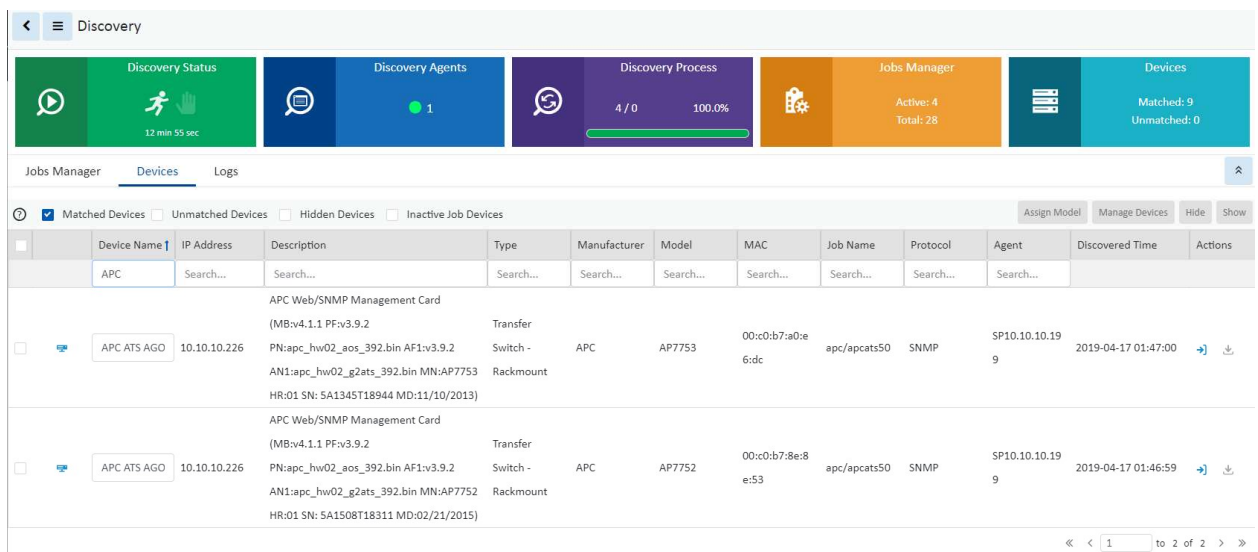
- **Clear browser history** after installation before launching a web session to log into the new version of the application.

### 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

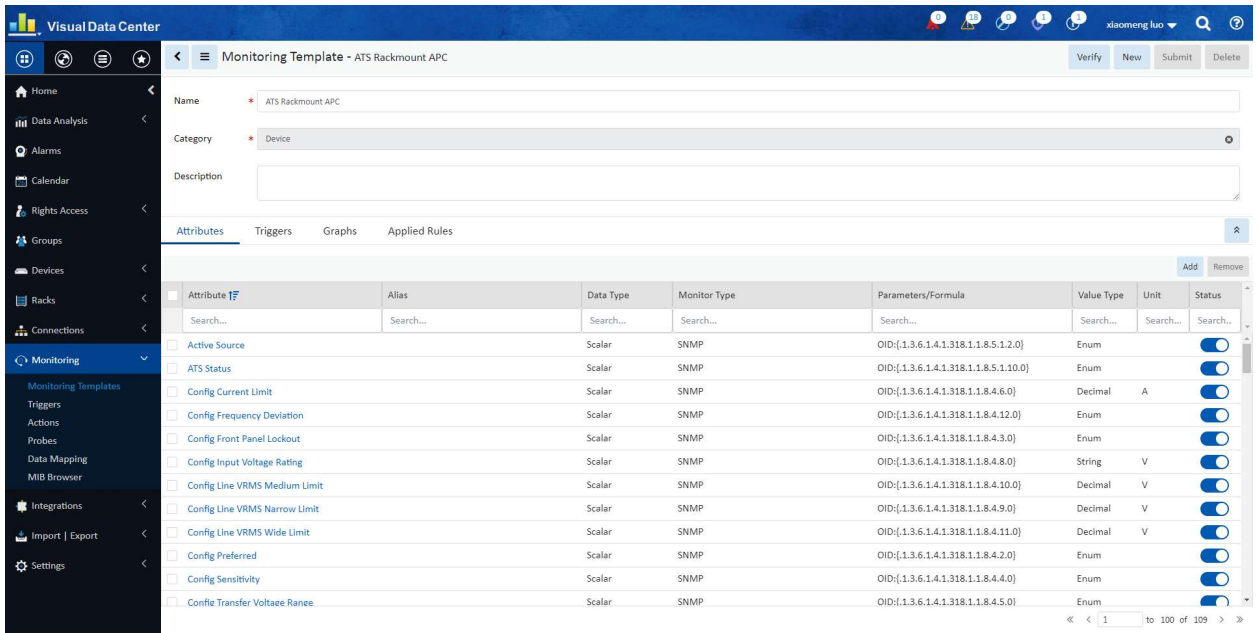
- 3352 WI: Support APC Rackmount ATS in Discovery**  
 Added ability to discover APC rackmount ATS devices.



The screenshot shows the 'Discovery' page in a web interface. At the top, there are several status cards: 'Discovery Status' (12 min 55 sec), 'Discovery Agents' (1), 'Discovery Process' (4/0, 100.0%), 'Jobs Manager' (Active: 4, Total: 28), and 'Devices' (Matched: 9, Unmatched: 0). Below these cards is a table of discovered devices. The table has columns for Device Name, IP Address, Description, Type, Manufacturer, Model, MAC, Job Name, Protocol, Agent, Discovered Time, and Actions. Two devices are listed, both identified as 'APC ATS AGO' with IP address 10.10.10.226. The first device has a description including 'APC Web/SNMP Management Card' and 'APC Rackmount'. The second device has a similar description but with a different HR:01 SN.

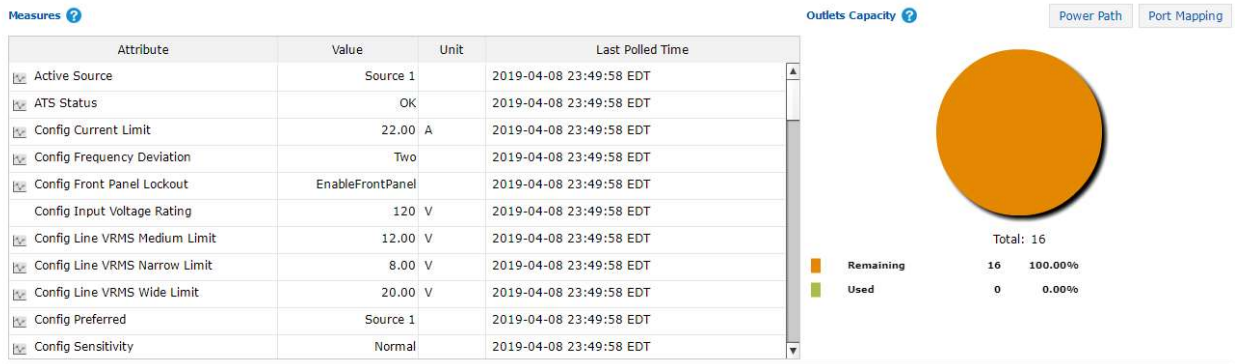


Added a monitoring template for APC Rackmount ATS models.



Attribute	Alias	Data Type	Monitor Type	Parameters/Formula	Value Type	Unit	Status
<input type="checkbox"/> Active Source		Scalar	SNMP	OID:(1.3.6.1.4.1.318.1.1.8.5.1.2.0)	Enum		<input checked="" type="checkbox"/>
<input type="checkbox"/> ATS Status		Scalar	SNMP	OID:(1.3.6.1.4.1.318.1.1.8.5.1.10.0)	Enum		<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Current Limit		Scalar	SNMP	OID:(1.3.6.1.4.1.318.1.1.8.4.6.0)	Decimal	A	<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Frequency Deviation		Scalar	SNMP	OID:(1.3.6.1.4.1.318.1.1.8.4.12.0)	Enum		<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Front Panel Lockout		Scalar	SNMP	OID:(1.3.6.1.4.1.318.1.1.8.4.3.0)	Enum		<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Input Voltage Rating		Scalar	SNMP	OID:(1.3.6.1.4.1.318.1.1.8.4.8.0)	String	V	<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Line VRMS Medium Limit		Scalar	SNMP	OID:(1.3.6.1.4.1.318.1.1.8.4.10.0)	Decimal	V	<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Line VRMS Narrow Limit		Scalar	SNMP	OID:(1.3.6.1.4.1.318.1.1.8.4.9.0)	Decimal	V	<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Line VRMS Wide Limit		Scalar	SNMP	OID:(1.3.6.1.4.1.318.1.1.8.4.11.0)	Decimal	V	<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Preferred		Scalar	SNMP	OID:(1.3.6.1.4.1.318.1.1.8.4.2.0)	Enum		<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Sensitivity		Scalar	SNMP	OID:(1.3.6.1.4.1.318.1.1.8.4.4.0)	Enum		<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Transfer Voltage Range		Scalar	SNMP	OID:(1.3.6.1.4.1.318.1.1.8.4.5.0)	Enum		<input checked="" type="checkbox"/>

There is a corresponding dashboard for APC rackmount ATS devices.



Attribute	Value	Unit	Last Polled Time
Active Source	Source 1		2019-04-08 23:49:58 EDT
ATS Status	OK		2019-04-08 23:49:58 EDT
Config Current Limit	22.00	A	2019-04-08 23:49:58 EDT
Config Frequency Deviation	Two		2019-04-08 23:49:58 EDT
Config Front Panel Lockout	EnableFrontPanel		2019-04-08 23:49:58 EDT
Config Input Voltage Rating	120	V	2019-04-08 23:49:58 EDT
Config Line VRMS Medium Limit	12.00	V	2019-04-08 23:49:58 EDT
Config Line VRMS Narrow Limit	8.00	V	2019-04-08 23:49:58 EDT
Config Line VRMS Wide Limit	20.00	V	2019-04-08 23:49:58 EDT
Config Preferred	Source 1		2019-04-08 23:49:58 EDT
Config Sensitivity	Normal		2019-04-08 23:49:58 EDT

**Outlets Capacity**

Total: 16

Remaining: 16 (100.00%)

Used: 0 (0.00%)

- **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.

Devices - mm-switch\_F1

Basic Information

Item	Value
▼ Device	
Name	mm-switch_F1
UUID	272927ea-f978-4fdb-98f1-c92ca1c7ccd1
Type	Switch
Manufacturer	Cisco Systems
Product Line	Catalyst 2940 Series
Model	WS-C2948G-GE-TX
Lifecycle	Operational
Asset Tag	

Real-time Monitoring Data

Actions	Attribute	Data Source	Value	Unit	Last Updated
	Search...	Search...	Search...	Search...	Start date ~ End date

No records to display

Connections

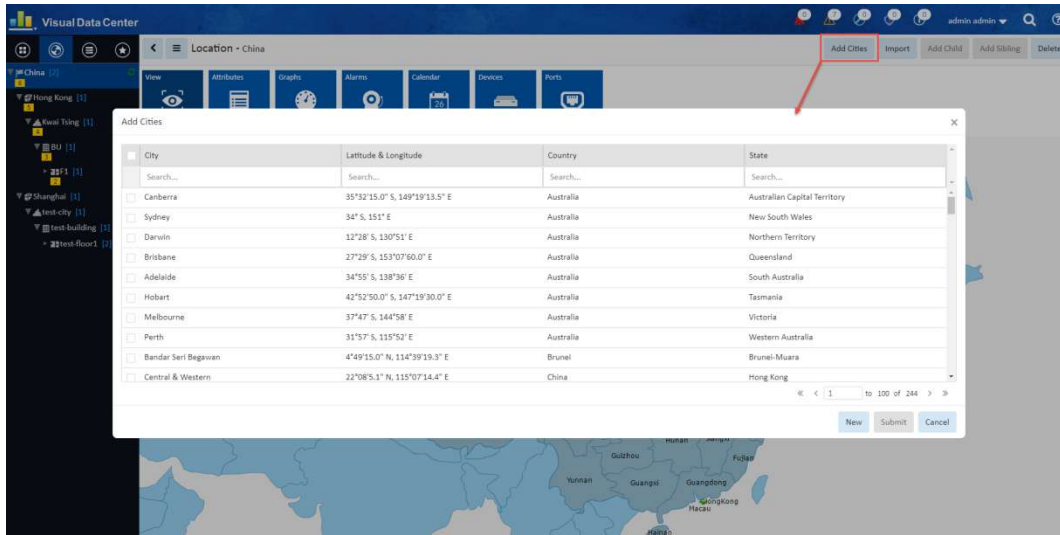
▼ All

Port Name	Port Type	Port Status	Connected Port	Cable Name	Serial Number	Color	Length	Speed	VLAN
Search...	Search...	Search...	Search...	Search...	Search...	Search...	Search...	Search...	Search...
ni 1	Network In	Connected	mm-switch: ni 1	New Cable021801	SN040101		12.00 ft	1001	
ni 2	Network In	Connected	mm-switch: ni 2	New Cable				1001	
no 01	Network Out	Connected	mm-pp(1)_F1: no 05	New Cable				1001	
no 04	Network Out	Connected	mm-switch: no 13	New Cable				1001	
no 08	Network Out	Connected	mm-switch: no 15	New Cable				1001	
no 23	Network Out	Reserved	0305 server 01: ni 1					1001	
no 34	Network Out	Reserved	0329 server 01: ni 2					1001	

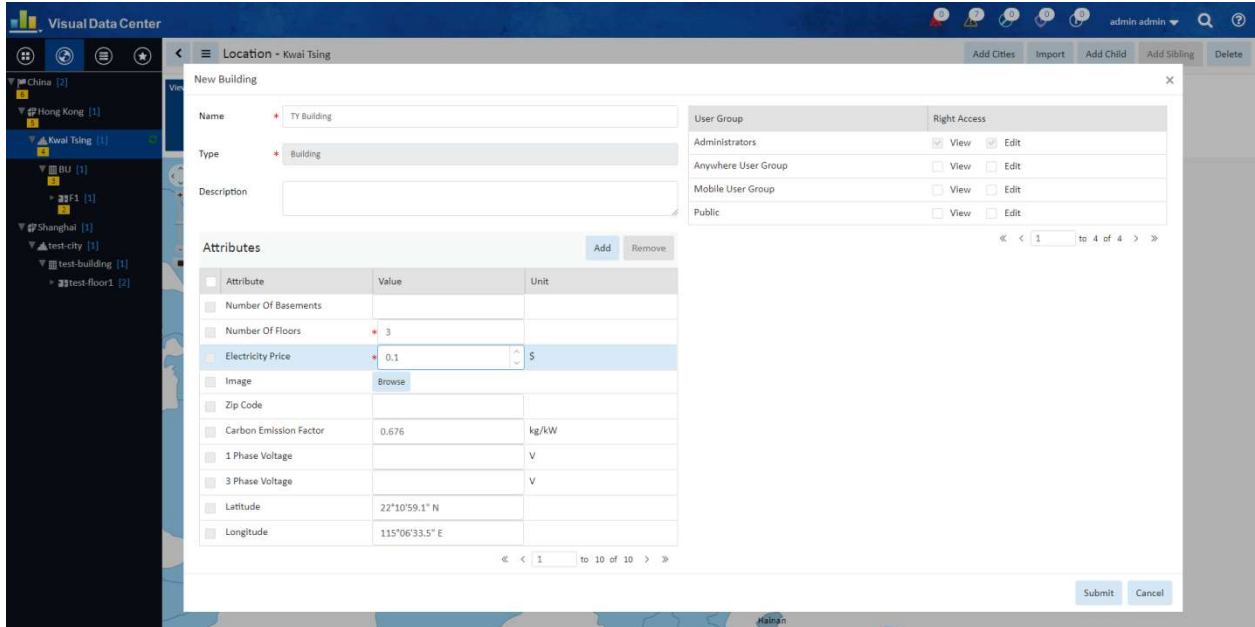
« < 1 to 7 of 7 > »

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

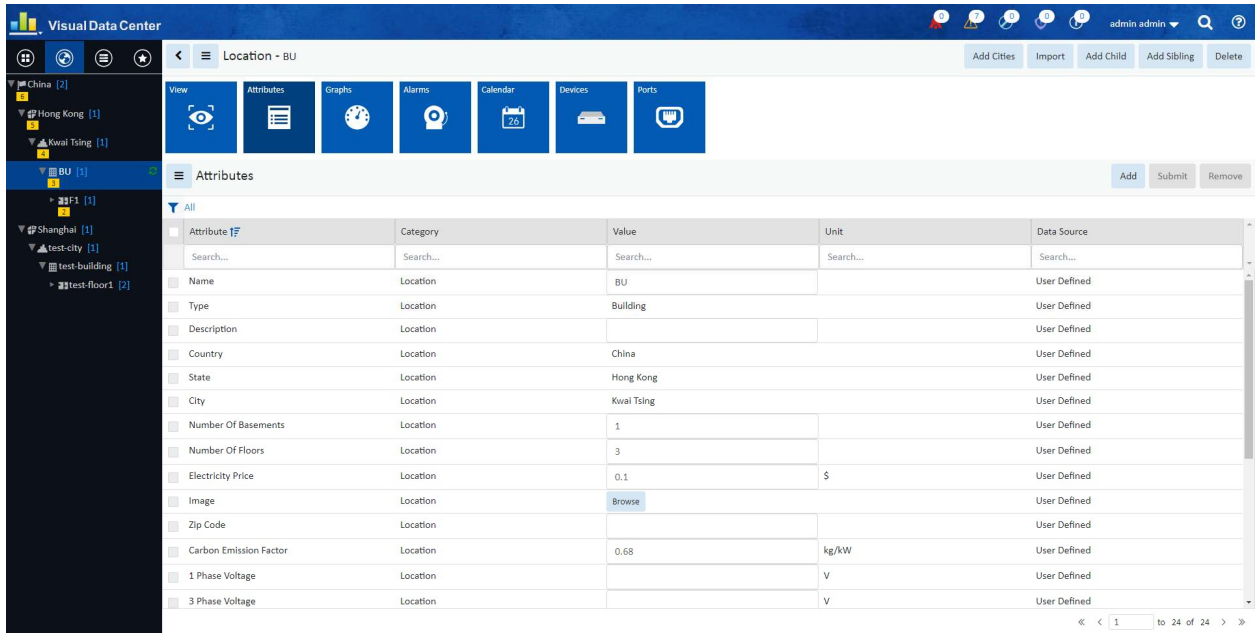
1) Users can use Add Cities to create country, state and city.



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.



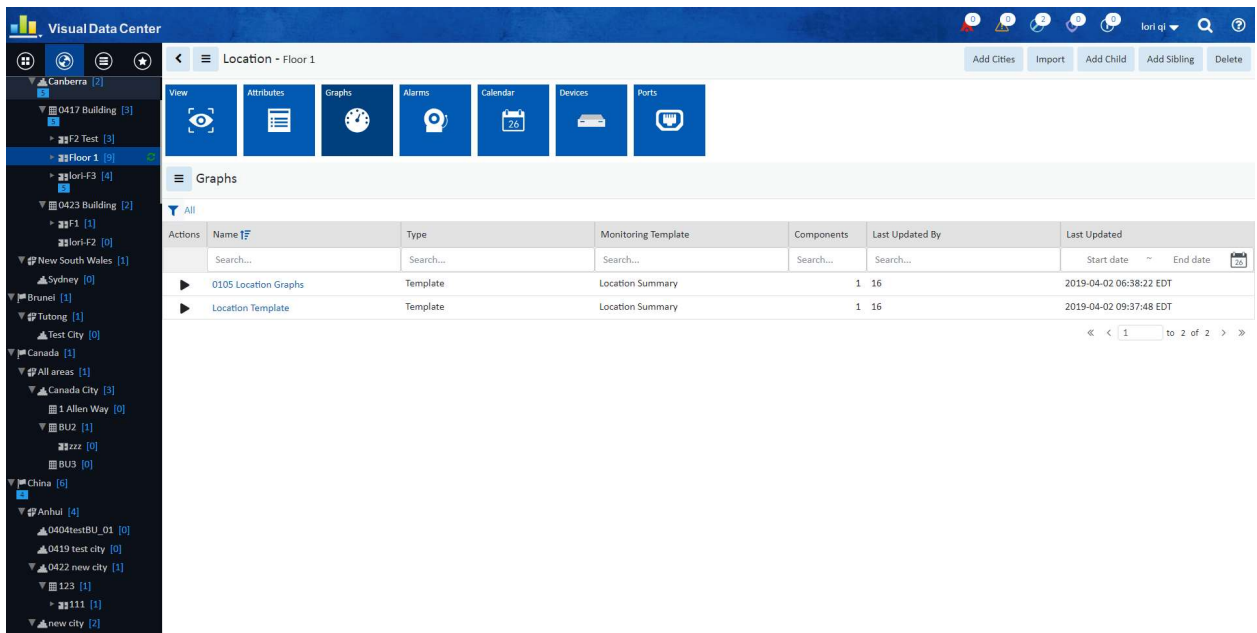
3) By clicking Attributes tile, users can add, modify or remove attributes for selected location node.



The screenshot shows the 'Visual Data Center' interface with the 'Location - BU' page selected. The 'Attributes' tab is active, displaying a table of location attributes. The table has columns for Attribute, Category, Value, Unit, and Data Source. The 'Value' column contains a 'Browse' button for the 'Image' attribute.

Attribute	Category	Value	Unit	Data Source
Name	Location	BU		User Defined
Type	Location	Building		User Defined
Description	Location			User Defined
Country	Location	China		User Defined
State	Location	Hong Kong		User Defined
City	Location	Kwai Tsing		User Defined
Number Of Basements	Location	1		User Defined
Number Of Floors	Location	3		User Defined
Electricity Price	Location	0.1	\$	User Defined
Image	Location	Browse		User Defined
Zip Code	Location			User Defined
Carbon Emission Factor	Location	0.68	kg/kW	User Defined
1 Phase Voltage	Location		V	User Defined
3 Phase Voltage	Location		V	User Defined

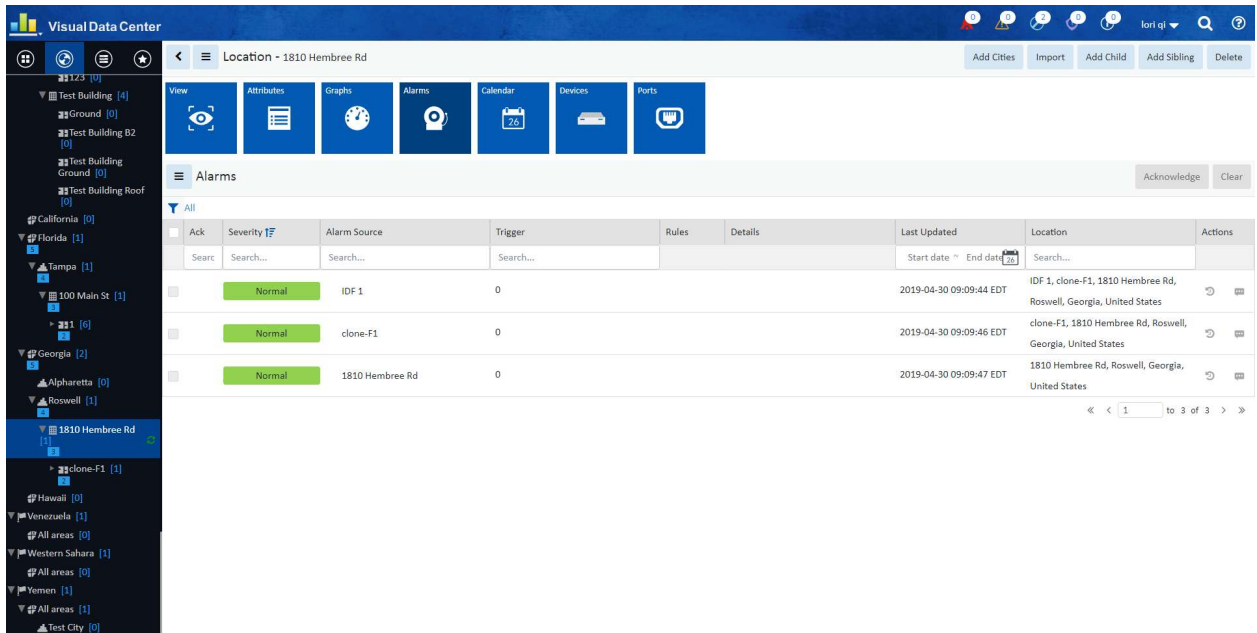
4) Graphs – Shows all graphs defined for selected location



The screenshot shows the 'Visual Data Center' interface with the 'Location - Floor 1' page selected. The 'Graphs' tab is active, displaying a table of location graphs. The table has columns for Actions, Name, Type, Monitoring Template, Components, Last Updated By, and Last Updated. The 'Last Updated' column contains a date and time, and a calendar icon is visible in the bottom right corner of the table.

Actions	Name	Type	Monitoring Template	Components	Last Updated By	Last Updated
	Search...	Search...	Search...	Search...	Search...	Start date ~ End date
▶	0105 Location Graphs	Template	Location Summary	1 16		2019-04-02 06:38:22 EDT
▶	Location Template	Template	Location Summary	1 16		2019-04-02 09:37:48 EDT

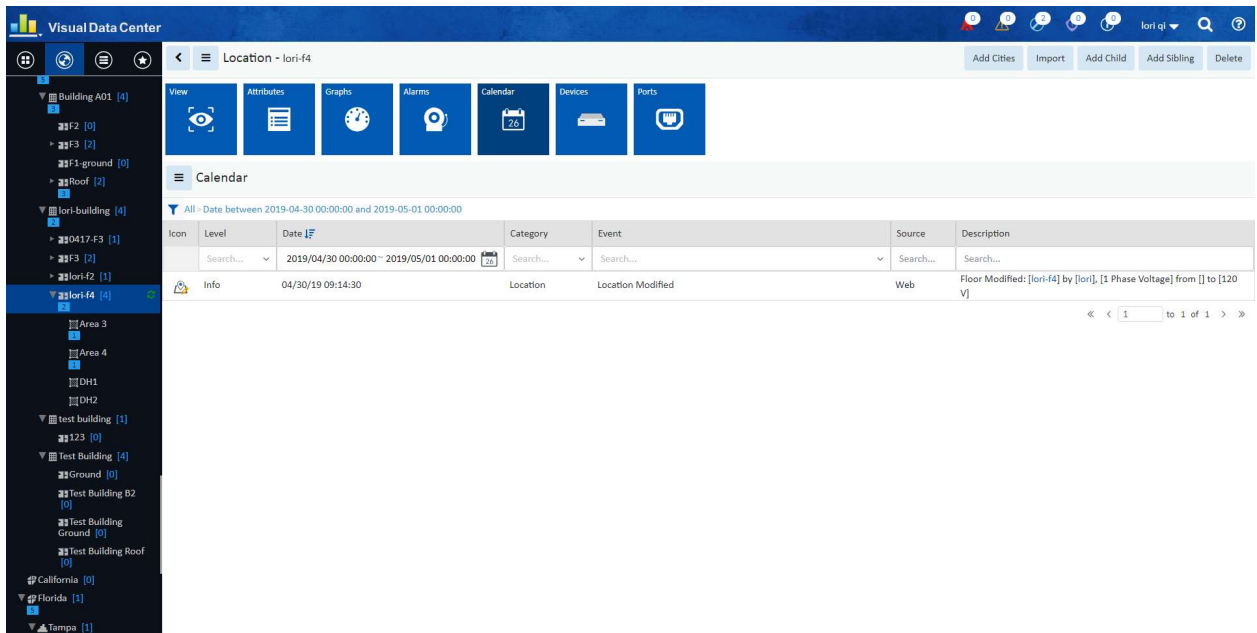
- 5) Alarms – All alarms generated for selected location and alarms for devices mounted in the selected location node.



The screenshot shows the 'Visual Data Center' interface with the 'Alarms' view selected for the location '1810 Hembree Rd'. The left sidebar shows a tree view of locations, with '1810 Hembree Rd' selected. The main area displays a table of active alarms.

Ack	Severity	Alarm Source	Trigger	Rules	Details	Last Updated	Location	Actions
<input type="checkbox"/>	Normal	IDF 1	0			2019-04-30 09:09:44 EDT	IDF 1, clone-F1, 1810 Hembree Rd, Roswell, Georgia, United States	<a href="#">Ack</a> <a href="#">Clear</a>
<input type="checkbox"/>	Normal	clone-F1	0			2019-04-30 09:09:46 EDT	clone-F1, 1810 Hembree Rd, Roswell, Georgia, United States	<a href="#">Ack</a> <a href="#">Clear</a>
<input type="checkbox"/>	Normal	1810 Hembree Rd	0			2019-04-30 09:09:47 EDT	1810 Hembree Rd, Roswell, Georgia, United States	<a href="#">Ack</a> <a href="#">Clear</a>

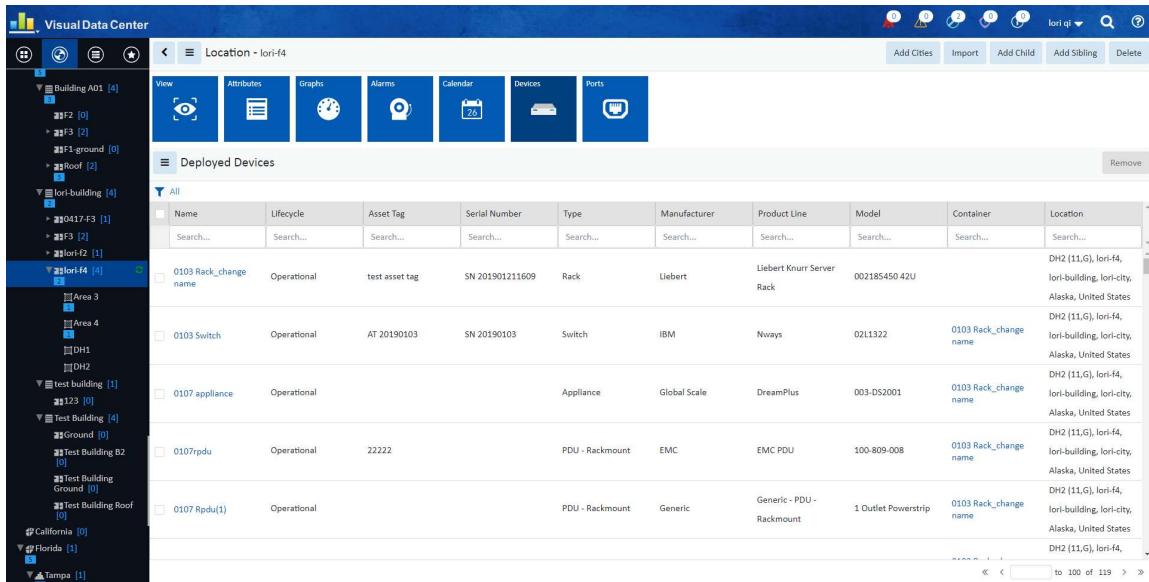
- 6) Calendar – Show all event logs generated for selected location.



The screenshot shows the 'Visual Data Center' interface with the 'Calendar' view selected for the location 'lori-f4'. The left sidebar shows a tree view of locations, with 'lori-f4' selected. The main area displays a table of event logs.

Icon	Level	Date	Category	Event	Source	Description
	Info	2019/04/30 09:14:30	Location	Location Modified	Web	Floor Modified: [lori-f4] by [lori], [1 Phase Voltage] from [ ] to [120 V]

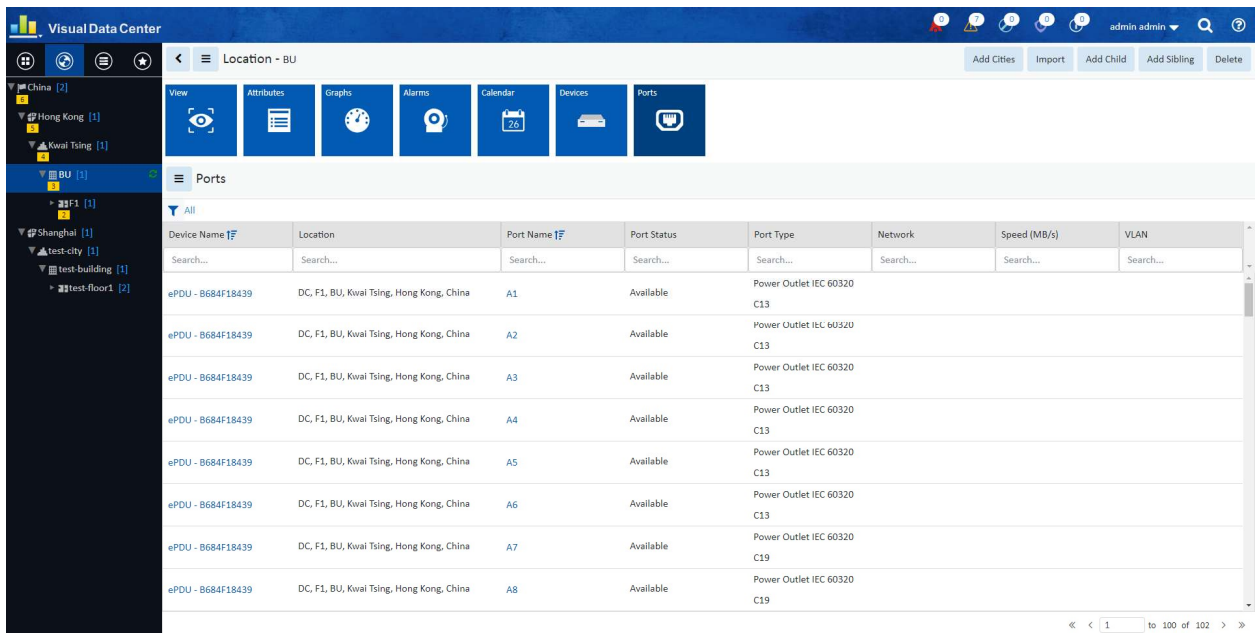
- 7) Devices – Show all devices mounted in the selected location. Users can click on the device name to open the device central.



The screenshot shows the 'Visual Data Center' interface with the 'Location - lori-f4' selected. The 'Deployed Devices' table is displayed with the following columns: Name, Lifecycle, Asset Tag, Serial Number, Type, Manufacturer, Product Line, Model, Container, and Location. The table contains several rows of device information.

Name	Lifecycle	Asset Tag	Serial Number	Type	Manufacturer	Product Line	Model	Container	Location
0103 Rack_change name	Operational	test asset tag	SN 201901211609	Rack	Liebert	Liebert Knurr Server Rack	002185450 42U		DH2 (11,G), lori-f4, lori-building, lori-city, Alaska, United States
0103 Switch	Operational	AT 20190103	SN 20190103	Switch	IBM	Nways	02L1322	0103 Rack_change name	DH2 (11,G), lori-f4, lori-building, lori-city, Alaska, United States
0107 appliance	Operational			Appliance	Global Scale	DreamPlus	003-DS2001	0103 Rack_change name	DH2 (11,G), lori-f4, lori-building, lori-city, Alaska, United States
0107r pdu	Operational	22222		PDU - Rackmount	EMC	EMC PDU	100-809-008	0103 Rack_change name	DH2 (11,G), lori-f4, lori-building, lori-city, Alaska, United States
0107 Rpdu(1)	Operational			PDU - Rackmount	Generic	Generic - PDU - Rackmount	1 Outlet Powerstrip	0103 Rack_change name	DH2 (11,G), lori-f4, lori-building, lori-city, Alaska, United States

- 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.

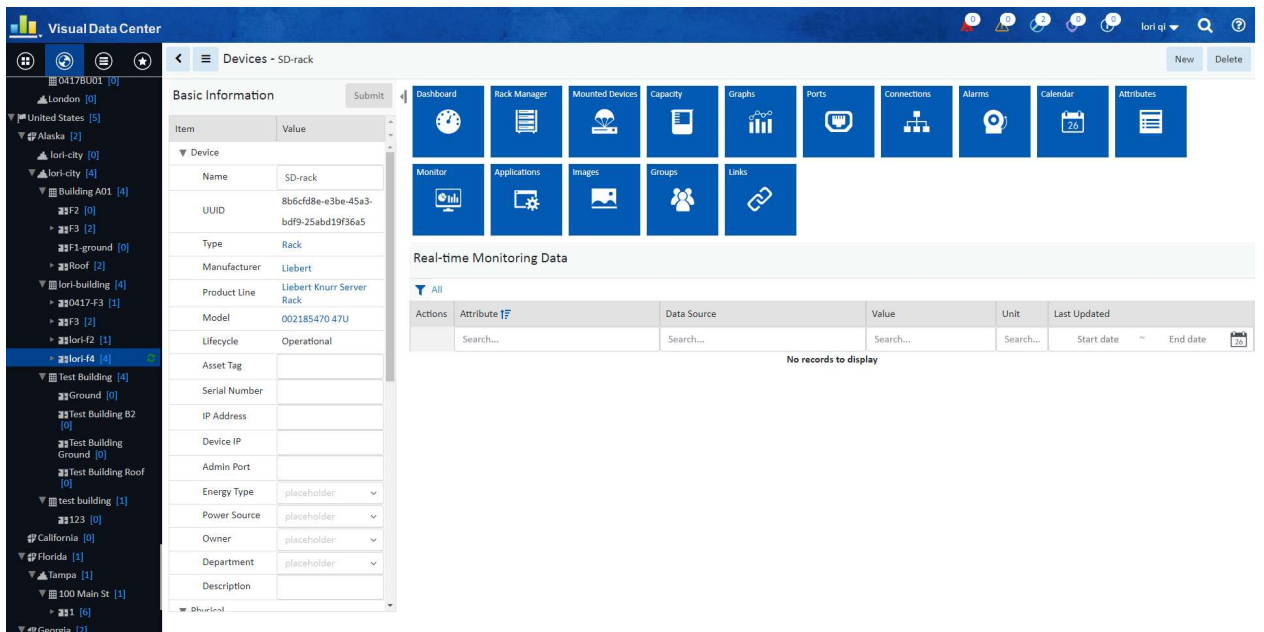
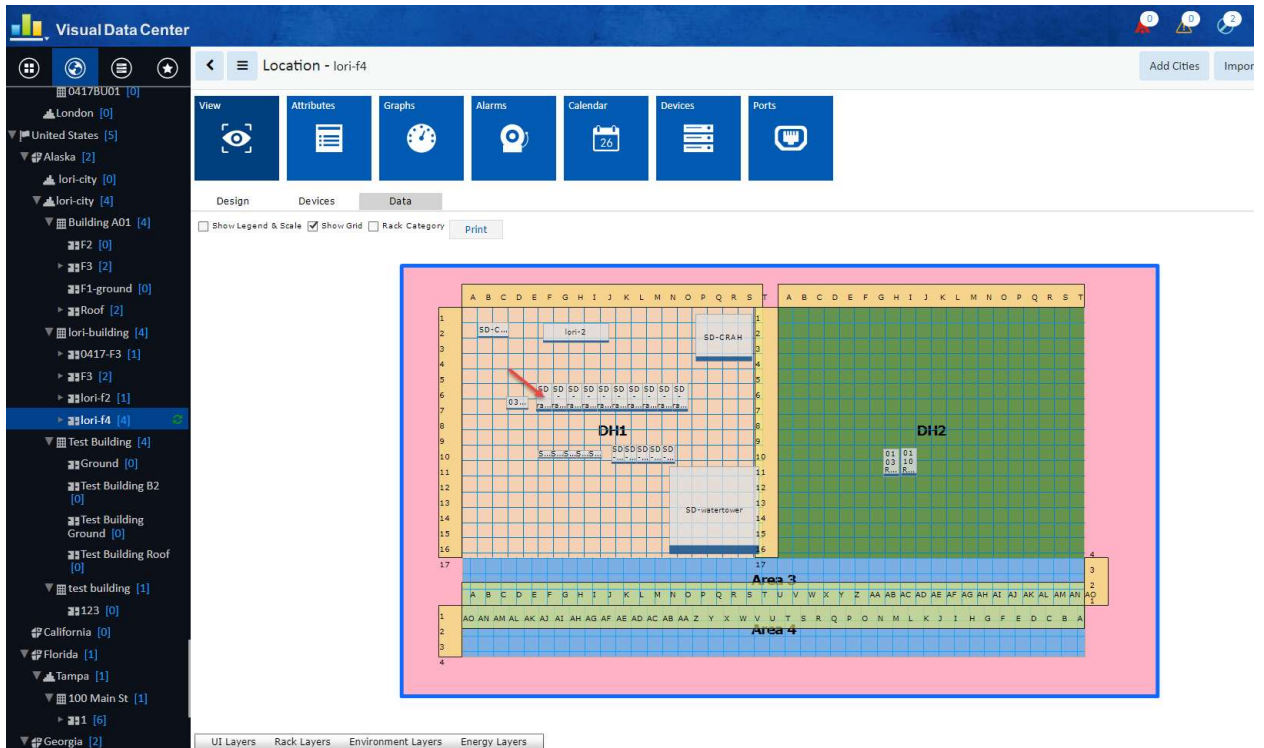


The screenshot shows the 'Visual Data Center' interface with the 'Location - BU' selected. The 'Ports' table is displayed with the following columns: Device Name, Location, Port Name, Port Status, Port Type, Network, Speed (MB/s), and VLAN. The table contains several rows of port information.

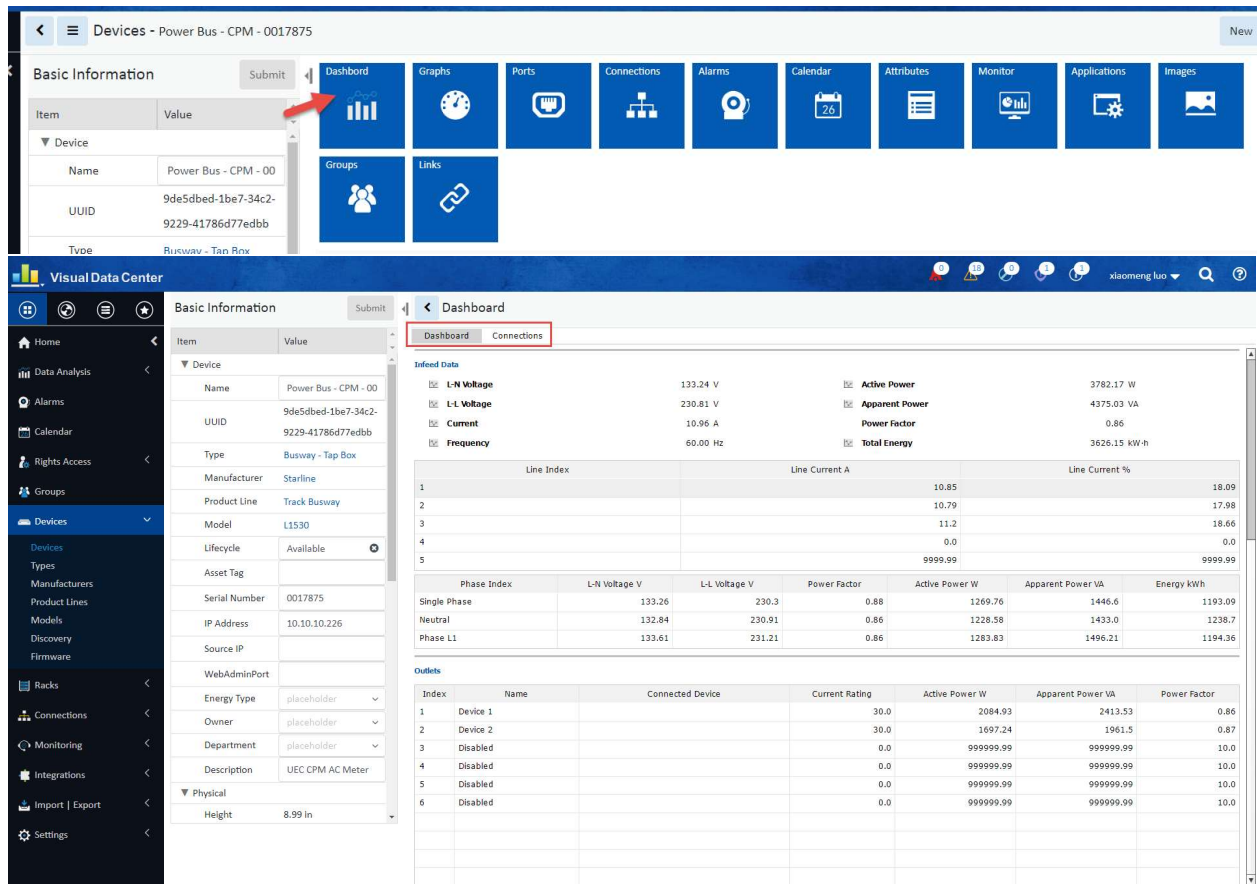
Device Name	Location	Port Name	Port Status	Port Type	Network	Speed (MB/s)	VLAN
ePDU - B684F18439	DC, F1, BU, Kwai Tsing, Hong Kong, China	A1	Available	Power Outlet IEC 60320 C13			
ePDU - B684F18439	DC, F1, BU, Kwai Tsing, Hong Kong, China	A2	Available	Power Outlet IEC 60320 C13			
ePDU - B684F18439	DC, F1, BU, Kwai Tsing, Hong Kong, China	A3	Available	Power Outlet IEC 60320 C13			
ePDU - B684F18439	DC, F1, BU, Kwai Tsing, Hong Kong, China	A4	Available	Power Outlet IEC 60320 C13			
ePDU - B684F18439	DC, F1, BU, Kwai Tsing, Hong Kong, China	A5	Available	Power Outlet IEC 60320 C13			
ePDU - B684F18439	DC, F1, BU, Kwai Tsing, Hong Kong, China	A6	Available	Power Outlet IEC 60320 C13			
ePDU - B684F18439	DC, F1, BU, Kwai Tsing, Hong Kong, China	A7	Available	Power Outlet IEC 60320 C19			
ePDU - B684F18439	DC, F1, BU, Kwai Tsing, Hong Kong, China	A8	Available	Power Outlet IEC 60320 C19			



- 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



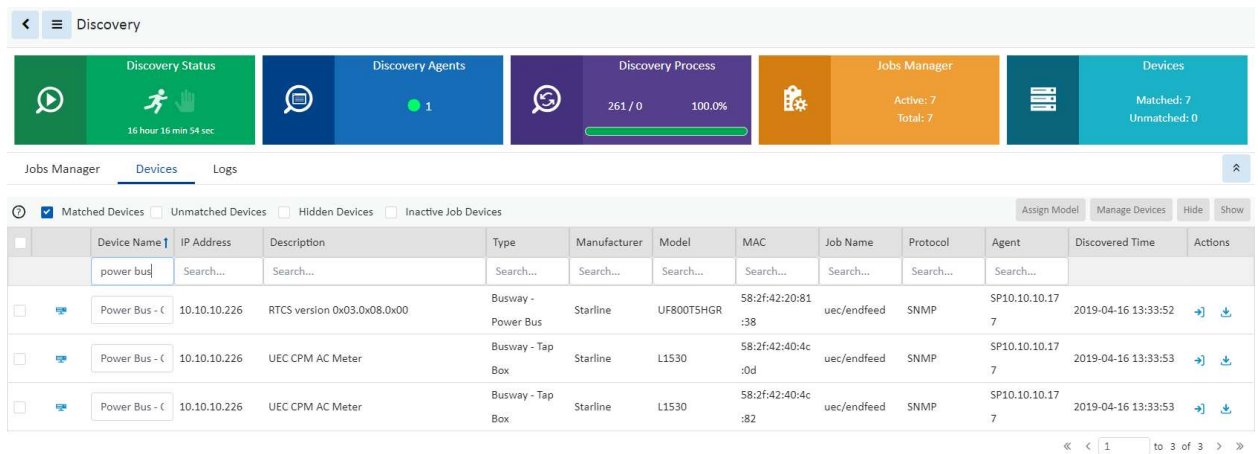
The screenshot shows the Eaton VCOM interface. At the top, there's a navigation bar with 'Devices - Power Bus - CPM - 0017875'. Below it, a 'Basic Information' tab is active, showing details for a device named 'Power Bus - CPM - 00'. A red arrow points to the 'Dashboard' tab in the top navigation bar. Below the navigation bar, there's a 'Visual Data Center' section with a 'Dashboard' tab selected. The dashboard displays 'Infected Data' with metrics for L-N Voltage, L-L Voltage, Current, Frequency, Active Power, Apparent Power, Power Factor, and Total Energy. It also includes tables for 'Line Index' and 'Outlets'.

Line Index	Line Current A	Line Current %
1	10.85	18.09
2	10.79	17.98
3	11.2	18.66
4	0.0	0.0
5	9999.99	9999.99

Phase Index	L-N Voltage V	L-L Voltage V	Power Factor	Active Power W	Apparent Power VA	Energy kWh
Single Phase	133.26	230.3	0.88	1269.76	1446.6	1193.09
Neutral	132.84	230.91	0.86	1228.58	1433.0	1238.7
Phase L1	133.61	231.21	0.86	1283.83	1496.21	1194.36

Index	Name	Connected Device	Current Rating	Active Power W	Apparent Power VA	Power Factor
1	Device 1		30.0	2084.93	2413.53	0.86
2	Device 2		30.0	1697.24	1961.5	0.87
3	Disabled		0.0	999999.99	999999.99	10.0
4	Disabled		0.0	999999.99	999999.99	10.0
5	Disabled		0.0	999999.99	999999.99	10.0
6	Disabled		0.0	999999.99	999999.99	10.0

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



The screenshot shows the 'Discovery' interface. It features a top navigation bar with 'Discovery Status', 'Discovery Agents', 'Discovery Process', 'Jobs Manager', and 'Devices'. Below this, there's a 'Jobs Manager' section with 'Devices' selected. A table displays discovered devices, including 'Power Bus - C' and 'Power Bus - Tap Box'.

Device Name	IP Address	Description	Type	Manufacturer	Model	MAC	Job Name	Protocol	Agent	Discovered Time	Actions
Power Bus - C	10.10.10.226	RTCS version 0x03.0x08.0x00	Busway - Power Bus	Starline	UF800TSHGR	58:2f:42:20:81:38	uec/endfeed	SNMP	SP10.10.10.17	2019-04-16 13:33:52	
Power Bus - C	10.10.10.226	UEC CPM AC Meter	Busway - Tap Box	Starline	L1530	58:2f:42:40:4c:d0	uec/endfeed	SNMP	SP10.10.10.17	2019-04-16 13:33:53	
Power Bus - C	10.10.10.226	UEC CPM AC Meter	Busway - Tap Box	Starline	L1530	58:2f:42:40:4c:b2	uec/endfeed	SNMP	SP10.10.10.17	2019-04-16 13:33:53	



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

Attribute	Alias	Data Type	Monitor Type	Parameters/Formula	Value Type	Unit	Status
<input type="checkbox"/> Active Power		Scalar	SNMP	OID:{1.3.6.1.4.1.35774.2.1.4.7.0}	Decimal	W	<input checked="" type="checkbox"/>
<input type="checkbox"/> Apparent Power		Scalar	SNMP	OID:{1.3.6.1.4.1.35774.2.1.4.14.0}	Decimal	VA	<input checked="" type="checkbox"/>
<input type="checkbox"/> Current		Scalar	SNMP	OID:{1.3.6.1.4.1.35774.2.1.4.3.0}	Decimal	A	<input checked="" type="checkbox"/>
<input type="checkbox"/> Energy		Scalar	SNMP	OID:{1.3.6.1.4.1.35774.2.1.4.19.0}	Decimal	kW-h	<input checked="" type="checkbox"/>
<input type="checkbox"/> Infeed Line Current 1		Scalar	SNMP	OID:{1.3.6.1.4.1.35774.2.1.5.1.3.1}	Decimal	A	<input checked="" type="checkbox"/>
<input type="checkbox"/> Infeed Line Current 2		Scalar	SNMP	OID:{1.3.6.1.4.1.35774.2.1.5.1.3.2}	Decimal	A	<input checked="" type="checkbox"/>
<input type="checkbox"/> Infeed Line Current 3		Scalar	SNMP	OID:{1.3.6.1.4.1.35774.2.1.5.1.3.3}	Decimal	A	<input checked="" type="checkbox"/>
<input type="checkbox"/> Infeed Line Current 4		Scalar	SNMP	OID:{1.3.6.1.4.1.35774.2.1.5.1.3.4}	Decimal	A	<input checked="" type="checkbox"/>
<input type="checkbox"/> Infeed Line Current 5		Scalar	SNMP	OID:{1.3.6.1.4.1.35774.2.1.5.1.3.5}	Decimal	A	<input checked="" type="checkbox"/>
<input type="checkbox"/> Infeed Line Current Percentage 1		Scalar	SNMP	OID:{1.3.6.1.4.1.35774.2.1.5.1.6.1}	Decimal	%	<input checked="" type="checkbox"/>
<input type="checkbox"/> Infeed Line Current Percentage 2		Scalar	SNMP	OID:{1.3.6.1.4.1.35774.2.1.5.1.6.2}	Decimal	%	<input checked="" type="checkbox"/>
<input type="checkbox"/> Infeed Line Current Percentage 3		Scalar	SNMP	OID:{1.3.6.1.4.1.35774.2.1.5.1.6.3}	Decimal	%	<input checked="" type="checkbox"/>

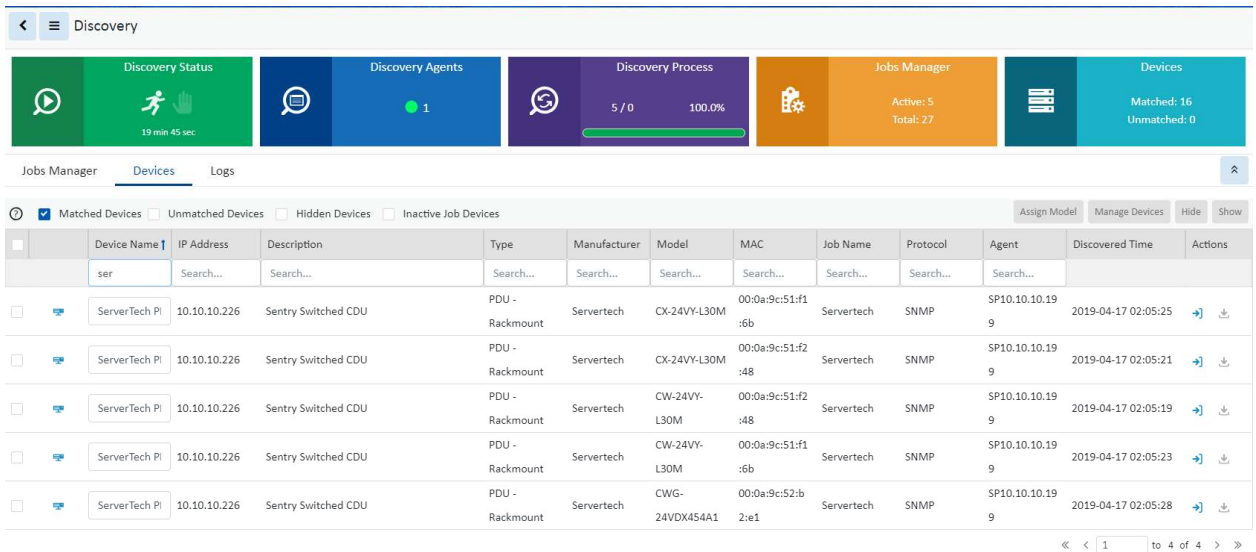
There is a corresponding dashboard for the devices.

Line Index	Line Current A	Line Current %
1	10.85	18.09
2	10.79	17.98
3	11.2	18.66
4	0.0	0.0
5	9999.99	9999.99

Phase Index	L-N Voltage V	L-L Voltage V	Power Factor	Active Power W	Apparent Power VA	Energy kWh
Single Phase	133.26	230.3	0.88	1269.76	1446.6	1193.09
Neutral	132.84	230.91	0.86	1228.58	1433.0	1238.7
Phase L1	133.61	231.21	0.86	1283.83	1496.21	1194.36

Index	Name	Connected Device	Current Rating	Active Power W	Apparent Power VA	Power Factor
1	Device 1		30.0	2084.93	2413.53	0.86
2	Device 2		30.0	1697.24	1961.5	0.87
3	Disabled		0.0	999999.99	999999.99	10.0
4	Disabled		0.0	999999.99	999999.99	10.0
5	Disabled		0.0	999999.99	999999.99	10.0
6	Disabled		0.0	999999.99	999999.99	10.0

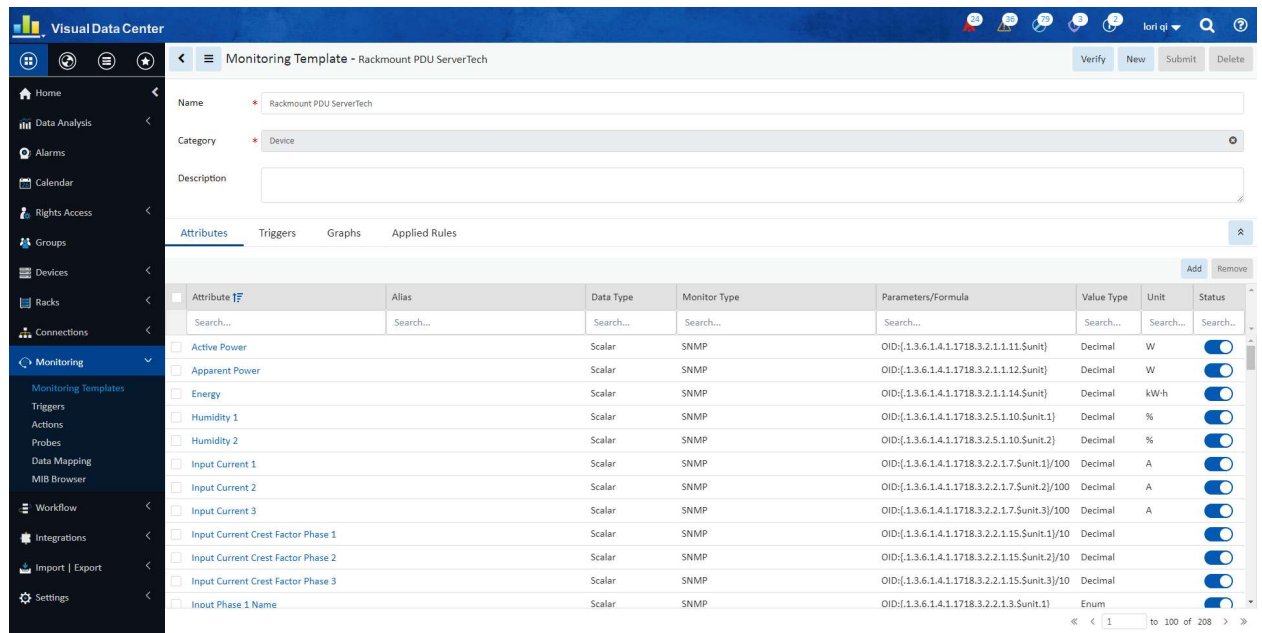
- 3363 WI: Support Server Tech PDU in Discovery**  
 Added ability to discover Server Tech PDUs.



The screenshot shows the 'Discovery' dashboard with a table of discovered devices. The table includes columns for Device Name, IP Address, Description, Type, Manufacturer, Model, MAC, Job Name, Protocol, Agent, Discovered Time, and Actions.

Device Name	IP Address	Description	Type	Manufacturer	Model	MAC	Job Name	Protocol	Agent	Discovered Time	Actions
ServerTech Pi	10.10.10.226	Sentry Switched CDU	PDU - Rackmount	Servertech	CX-24VY-L30M	00:0a:9c:51:f1:6b	Servertech	SNMP	SP10.10.10.19	2019-04-17 02:05:25	[+] [v]
ServerTech Pi	10.10.10.226	Sentry Switched CDU	PDU - Rackmount	Servertech	CX-24VY-L30M	00:0a:9c:51:f2:48	Servertech	SNMP	SP10.10.10.19	2019-04-17 02:05:21	[+] [v]
ServerTech Pi	10.10.10.226	Sentry Switched CDU	PDU - Rackmount	Servertech	CW-24VY-L30M	00:0a:9c:51:f2:48	Servertech	SNMP	SP10.10.10.19	2019-04-17 02:05:19	[+] [v]
ServerTech Pi	10.10.10.226	Sentry Switched CDU	PDU - Rackmount	Servertech	CW-24VY-L30M	00:0a:9c:51:f1:6b	Servertech	SNMP	SP10.10.10.19	2019-04-17 02:05:23	[+] [v]
ServerTech Pi	10.10.10.226	Sentry Switched CDU	PDU - Rackmount	Servertech	CWG-24VDX454A1	00:0a:9c:52:b2:e1	Servertech	SNMP	SP10.10.10.19	2019-04-17 02:05:28	[+] [v]

Added monitoring template for Server Tech PDU models.



The screenshot shows the 'Monitoring Template - Rackmount PDU ServerTech' configuration page. It includes a sidebar with navigation options like Home, Data Analysis, Alarms, and Monitoring. The main area shows the template configuration with fields for Name, Category, and Description. Below this is a table of attributes to be monitored.

Attribute	Alias	Data Type	Monitor Type	Parameters/Formula	Value Type	Unit	Status
<input type="checkbox"/> Active Power		Scalar	SNMP	OID:[1.3.6.1.4.1.1718.3.2.1.1.11.\$unit]	Decimal	W	<input checked="" type="checkbox"/>
<input type="checkbox"/> Apparent Power		Scalar	SNMP	OID:[1.3.6.1.4.1.1718.3.2.1.1.12.\$unit]	Decimal	W	<input checked="" type="checkbox"/>
<input type="checkbox"/> Energy		Scalar	SNMP	OID:[1.3.6.1.4.1.1718.3.2.1.1.14.\$unit]	Decimal	kWh	<input checked="" type="checkbox"/>
<input type="checkbox"/> Humidity 1		Scalar	SNMP	OID:[1.3.6.1.4.1.1718.3.2.5.1.10.\$unit.1]	Decimal	%	<input checked="" type="checkbox"/>
<input type="checkbox"/> Humidity 2		Scalar	SNMP	OID:[1.3.6.1.4.1.1718.3.2.5.1.10.\$unit.2]	Decimal	%	<input checked="" type="checkbox"/>
<input type="checkbox"/> Input Current 1		Scalar	SNMP	OID:[1.3.6.1.4.1.1718.3.2.2.1.7.\$unit.1]/100	Decimal	A	<input checked="" type="checkbox"/>
<input type="checkbox"/> Input Current 2		Scalar	SNMP	OID:[1.3.6.1.4.1.1718.3.2.2.1.7.\$unit.2]/100	Decimal	A	<input checked="" type="checkbox"/>
<input type="checkbox"/> Input Current 3		Scalar	SNMP	OID:[1.3.6.1.4.1.1718.3.2.2.1.7.\$unit.3]/100	Decimal	A	<input checked="" type="checkbox"/>
<input type="checkbox"/> Input Current Crest Factor Phase 1		Scalar	SNMP	OID:[1.3.6.1.4.1.1718.3.2.2.1.15.\$unit.1]/10	Decimal		<input checked="" type="checkbox"/>
<input type="checkbox"/> Input Current Crest Factor Phase 2		Scalar	SNMP	OID:[1.3.6.1.4.1.1718.3.2.2.1.15.\$unit.2]/10	Decimal		<input checked="" type="checkbox"/>
<input type="checkbox"/> Input Current Crest Factor Phase 3		Scalar	SNMP	OID:[1.3.6.1.4.1.1718.3.2.2.1.15.\$unit.3]/10	Decimal		<input checked="" type="checkbox"/>
<input type="checkbox"/> Inout Phase 1 Name		Enum	SNMP	OID:[1.3.6.1.4.1.1718.3.2.2.1.3.\$unit.1]	Enum		<input checked="" type="checkbox"/>

There is a corresponding dashboard for the devices.

**Visual Data Center** | Dashboard

**Basic Information**

Item	Value
Device	
Name	ServerTech PDU - Ma
UUID	60ca2e99-f45a-3489-8921-26e0083667ce
Type	PDU - Rackmount
Manufacturer	Servertech
Product Line	Smart PDU
Model	CS-12HYM444C8
Lifecycle	Available
Asset Tag	
Serial Number	ADGK0000473
IP Address	10.10.10.226
Device IP	
Admin Port	
Energy Type	placeholder
Owner	placeholder
Department	placeholder
Description	Sentry Smart CDU
Physical	
Height	3.50 in

**Power Capacity (W)**

Category	Value
Actual	3,906.00
Derated	8,600.00
Rated	8,600.00

**Outlets Capacity**

Category	Value	Percentage
Total	12	100.00%
Remaining	12	100.00%
Used	0	0.00%

**Phase**

Phase	Current [A]	Load [A]	Crest Factor	Voltage	Input Power	Input Power VA
Master_X	11.94	11.94	1.50	207.10 V	1504.00 W	1563.00 VA
Master_Y	11.67	11.67	1.50	206.90 V	1138.00 W	1164.00 VA
Master_Z	10.23	10.23	1.40	207.40 V	1264.00 W	1305.00 VA

**Measures**

Attribute	Value	Unit	Last Polled Time
Apparent Power	4032.00	VA	2019-04-16 02:07:57 EDT
Energy	42060.00	kW-h	2019-04-16 02:07:57 EDT
Input Current Crest Factor Phase 1	1.50		2019-04-16 02:07:56 EDT

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

**Discovery**

Discovery Status: 16 hour 28 min 39 sec

Discovery Agents: 1

Discovery Process: 261 / 0 100.0%

Jobs Manager: Active: 7 Total: 7

Devices: Matched: 7 Unmatched: 0

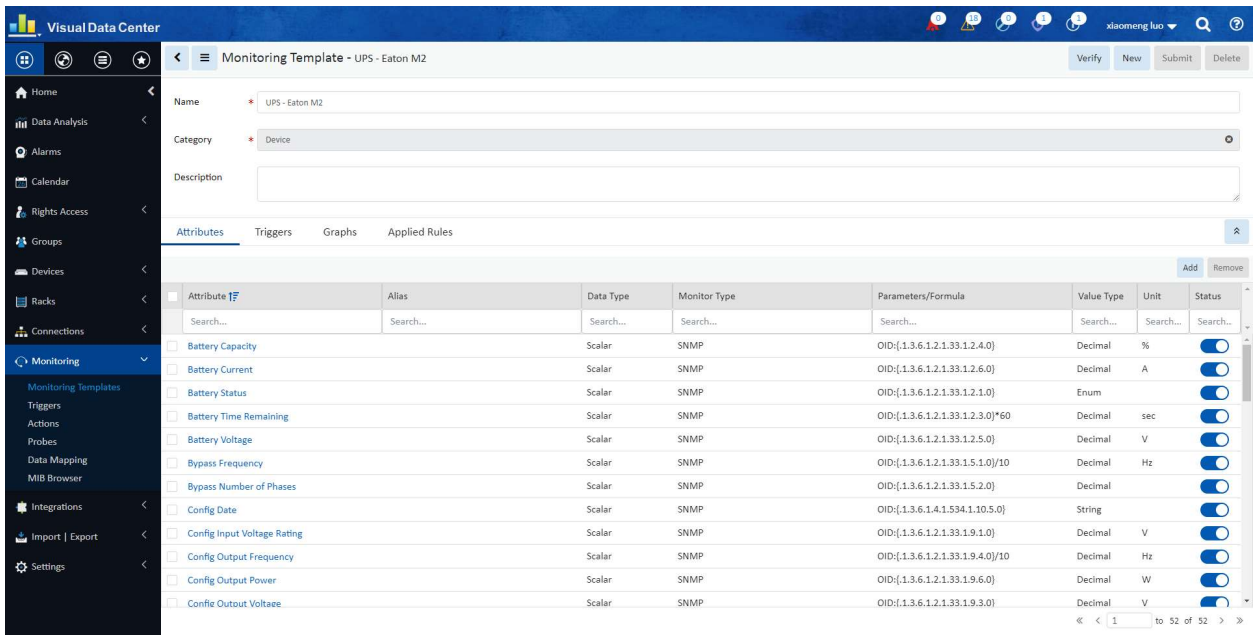
Jobs Manager | **Devices** | Logs

Matched Devices  Unmatched Devices  Hidden Devices  Inactive Job Devices

Device Name	IP Address	Description	Type	Manufacturer	Model	MAC	Job Name	Protocol	Agent	Discovered Time	Actions
eUPS - ups-01	10.10.10.226	Eaton Gigabit Network Card	UPS - Rackmount	Eaton	5P1000	00:20:85:e9:69:6f	M2	SNMP	SP10.10.10.17	2019-04-16 13:46:38	↗️ ⬇️
eUPS - ups-01	10.10.10.226	Eaton Gigabit Network Card Eaton DOT 120	UPS - Rackmount	Eaton	5P1000RC	00:20:85:e9:6a:b9	M2	SNMP	SP10.10.10.17	2019-04-16 13:46:38	↗️ ⬇️

« < 1 to 2 of 2 > »

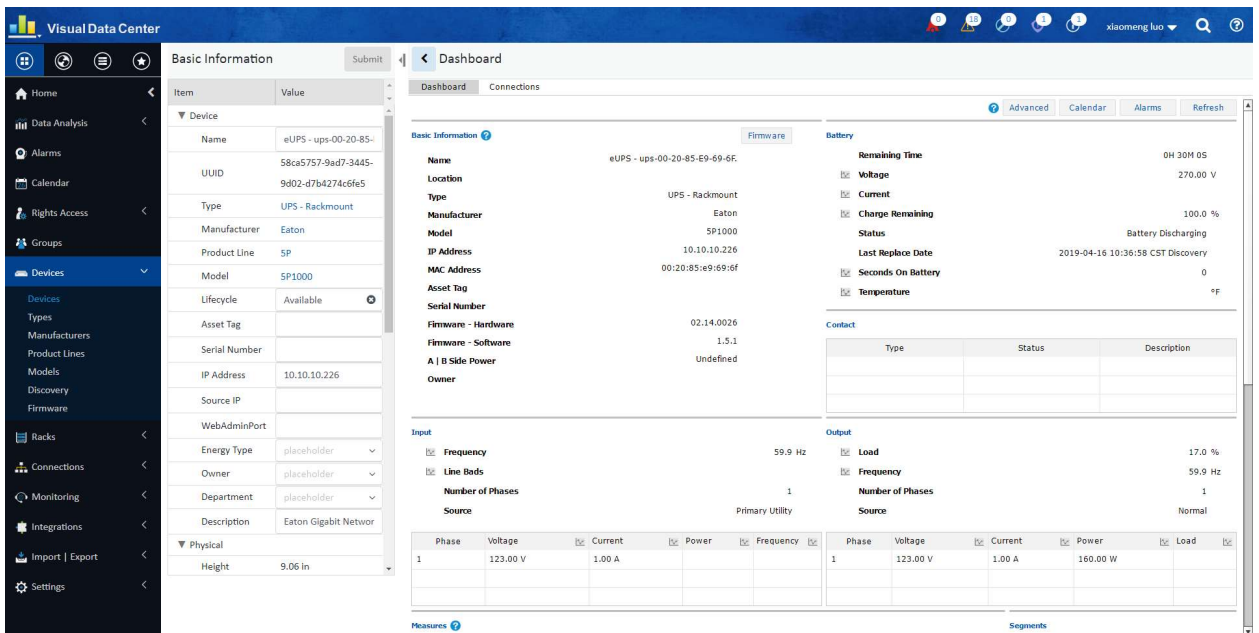
Added a monitoring template for the M2 network card devices.



The screenshot shows the configuration page for a monitoring template named 'UPS - Eaton M2'. The page includes a sidebar with navigation options like Home, Data Analysis, Alarms, and Monitoring. The main content area has a form for Name, Category, and Description, followed by tabs for Attributes, Triggers, Graphs, and Applied Rules. The 'Attributes' tab is active, displaying a table of monitoring attributes.

Attribute	Alias	Data Type	Monitor Type	Parameters/Formula	Value Type	Unit	Status
<input type="checkbox"/> Battery Capacity		Scalar	SNMP	OID:[1.3.6.1.2.1.33.1.2.4.0]	Decimal	%	<input checked="" type="checkbox"/>
<input type="checkbox"/> Battery Current		Scalar	SNMP	OID:[1.3.6.1.2.1.33.1.2.6.0]	Decimal	A	<input checked="" type="checkbox"/>
<input type="checkbox"/> Battery Status		Scalar	SNMP	OID:[1.3.6.1.2.1.33.1.2.1.0]	Enum		<input checked="" type="checkbox"/>
<input type="checkbox"/> Battery Time Remaining		Scalar	SNMP	OID:[1.3.6.1.2.1.33.1.2.3.0]*60	Decimal	sec	<input checked="" type="checkbox"/>
<input type="checkbox"/> Battery Voltage		Scalar	SNMP	OID:[1.3.6.1.2.1.33.1.2.5.0]	Decimal	V	<input checked="" type="checkbox"/>
<input type="checkbox"/> Bypass Frequency		Scalar	SNMP	OID:[1.3.6.1.2.1.33.1.5.1.0]/10	Decimal	Hz	<input checked="" type="checkbox"/>
<input type="checkbox"/> Bypass Number of Phases		Scalar	SNMP	OID:[1.3.6.1.2.1.33.1.5.2.0]	Decimal		<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Date		Scalar	SNMP	OID:[1.3.6.1.4.1.534.1.10.5.0]	String		<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Input Voltage Rating		Scalar	SNMP	OID:[1.3.6.1.2.1.33.1.9.1.0]	Decimal	V	<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Output Frequency		Scalar	SNMP	OID:[1.3.6.1.2.1.33.1.9.4.0]/10	Decimal	Hz	<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Output Power		Scalar	SNMP	OID:[1.3.6.1.2.1.33.1.9.6.0]	Decimal	W	<input checked="" type="checkbox"/>
<input type="checkbox"/> Config Output Voltage		Scalar	SNMP	OID:[1.3.6.1.2.1.33.1.9.3.0]	Decimal	V	<input checked="" type="checkbox"/>

There is a corresponding dashboard for the devices.



The screenshot shows a dashboard for a device named 'eUPS - ups-00-20-85-E9-69-6F'. The dashboard is divided into several sections: Basic Information, Battery, Input, and Output. The 'Basic Information' section provides details about the device's location, manufacturer, model, and IP address. The 'Battery' section shows the remaining time, voltage, current, and charge remaining. The 'Input' and 'Output' sections display real-time data for frequency, line bords, number of phases, and power.

Item	Value
Name	eUPS - ups-00-20-85-
UUID	58ca5757-9ad7-3445-9d02-d7b4274c6fe5
Type	UPS - Rackmount
Manufacturer	Eaton
Product Line	5P
Model	5P1000
Lifecycle	Available
Asset Tag	
Serial Number	
IP Address	10.10.10.226
Source IP	
WebAdminPort	
Energy Type	placeholder
Owner	placeholder
Department	placeholder
Description	Eaton Gigabit Networ
Height	9.06 in

- 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.


Capacity

eaton_PDU_01_F1	30	0	0	0	30	0.0
mm-rpdu_F1	6	0	0	0	6	0.0
rUPS_01_F1	5	0	0	0	5	0.0

**Network** Total: 74 Used: 0 Reserved: 0 Broken: 0 Available: 74 % Utilization: 0.0

Device Name	Total	Used	Reserved	Broken	Available	% Utilization
Search...	Search...	Search...	Search...	Search...	Search...	Search...
mm-pp(1)_F1	24	0	0	0	24	0.0
mm-switch_F1	50	0	0	0	50	0.0
pp_fiber01_F1	0	0	0	0	0	N/A

---

**Power** Power Source: PDU - Rackmount 

**Power Supply Devices** Rated: 6.53 kW Derated: 14.0 kW Active: 2.0 kW % Utilization: 14.3

Device Name	Type	Data Source	Power Rated (W)	Power Derated (W)	Active Power (W)	% Utilization
Search...	Search...	Search...	Search...	Search...	Search...	Search...
eaton_PDU_01_F1	PDU - Rackmount	User Defined	5760.0	6000.0	2000.0	33.3
mm-rpdu_F1	PDU - Rackmount		N/A	6000.0	N/A	N/A
rUPS_01_F1	UPS - Rackmount		770.0	2000.0	N/A	N/A

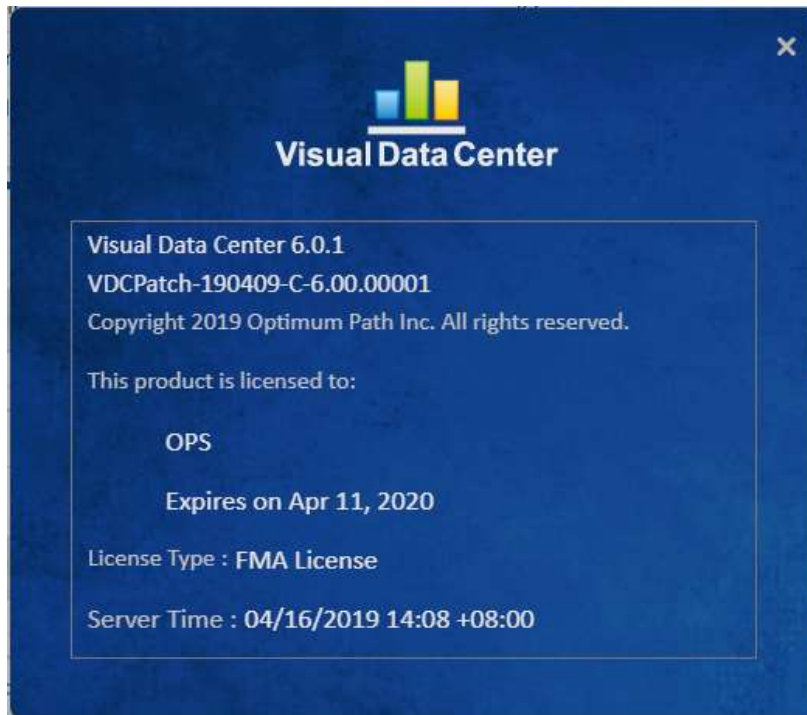
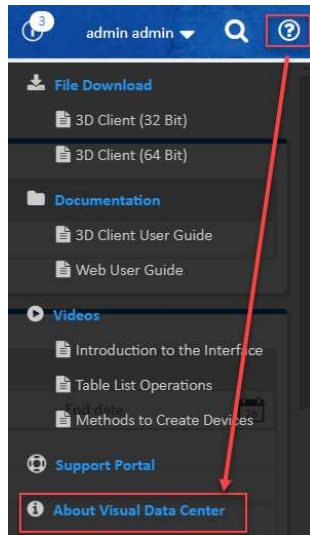
**IT Devices** Rated: 0.13 kW Derated: 0.13 kW Active: N/A % Utilization: N/A

Device Name	Type	Data Source	Power Rated (W)	Power Derated (W)	Active Power (W)	% Utilization
Search...	Search...	Search...	Search...	Search...	Search...	Search...
mm-pp(1)_F1	Patch Panel		N/A	N/A	N/A	N/A
mm-switch_F1	Switch		130.0	130.0	N/A	N/A

- **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

Location	View All	Edit All
▼ F1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
A 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
A 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
A 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
A 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
▼ United States	<input type="checkbox"/>	<input type="checkbox"/>
▼ Alaska	<input type="checkbox"/>	<input type="checkbox"/>
▼ 3D-City	<input type="checkbox"/>	<input type="checkbox"/>
▼ 3D-Building	<input type="checkbox"/>	<input type="checkbox"/>
▼ 3D-F1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Conference Room	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Datacenter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Energy Room	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2D-F2	<input type="checkbox"/>	<input type="checkbox"/>

**Visual Data Center**

Location - F1

View   Attributes   Graphs   Alarms   Calendar   Devices   Ports

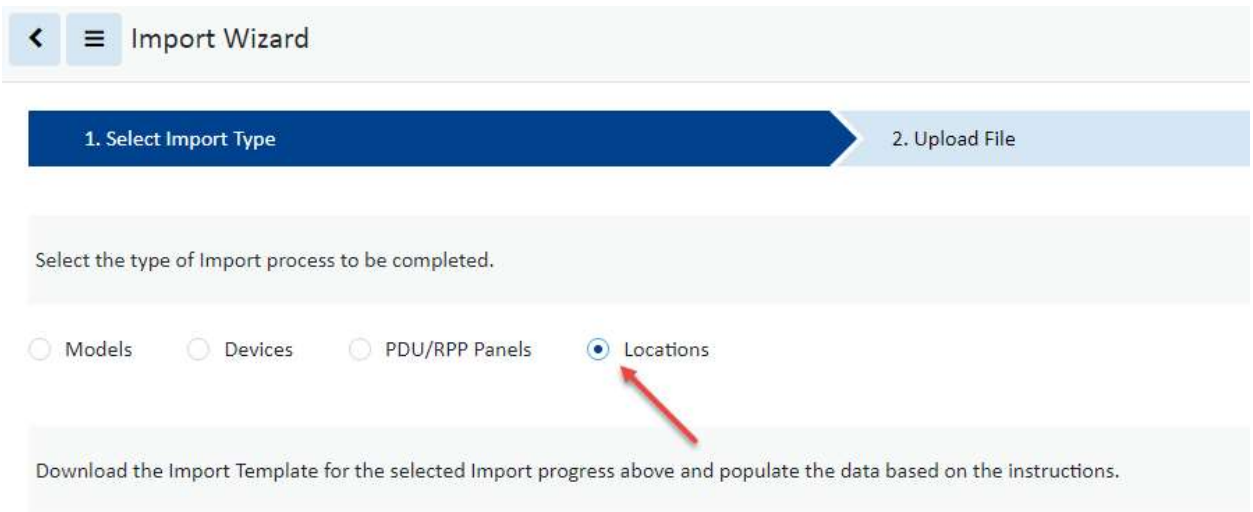
Attributes

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**

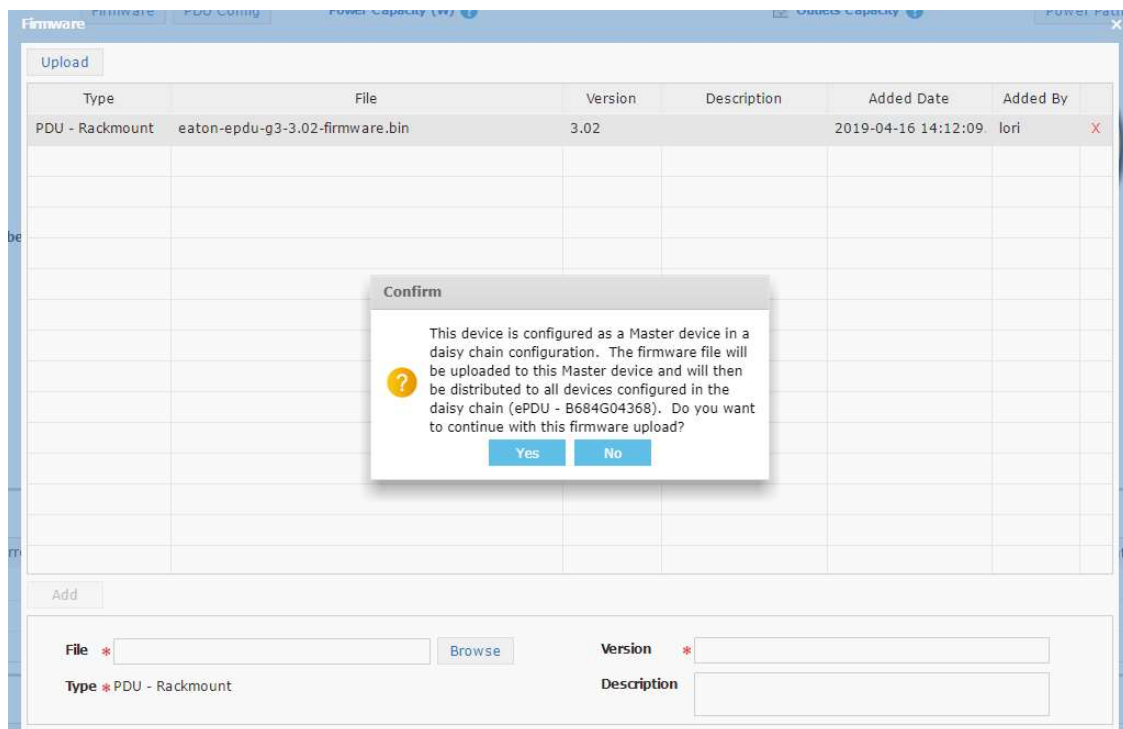
Location nodes can now be created by import. Users can open Import Central to import locations.



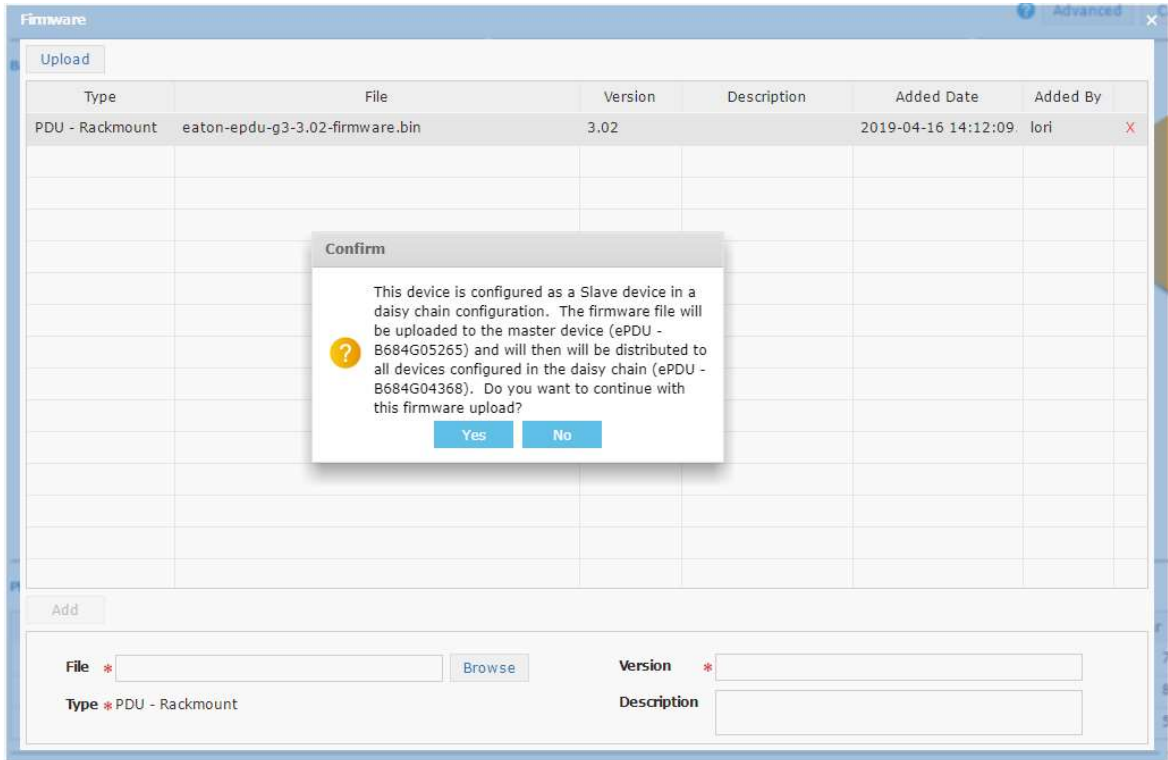
- **3369 WI: Daisy Chain Firmware Push**

When uploading firmware to daisy chained devices messages inform you how the firmware will be distributed.

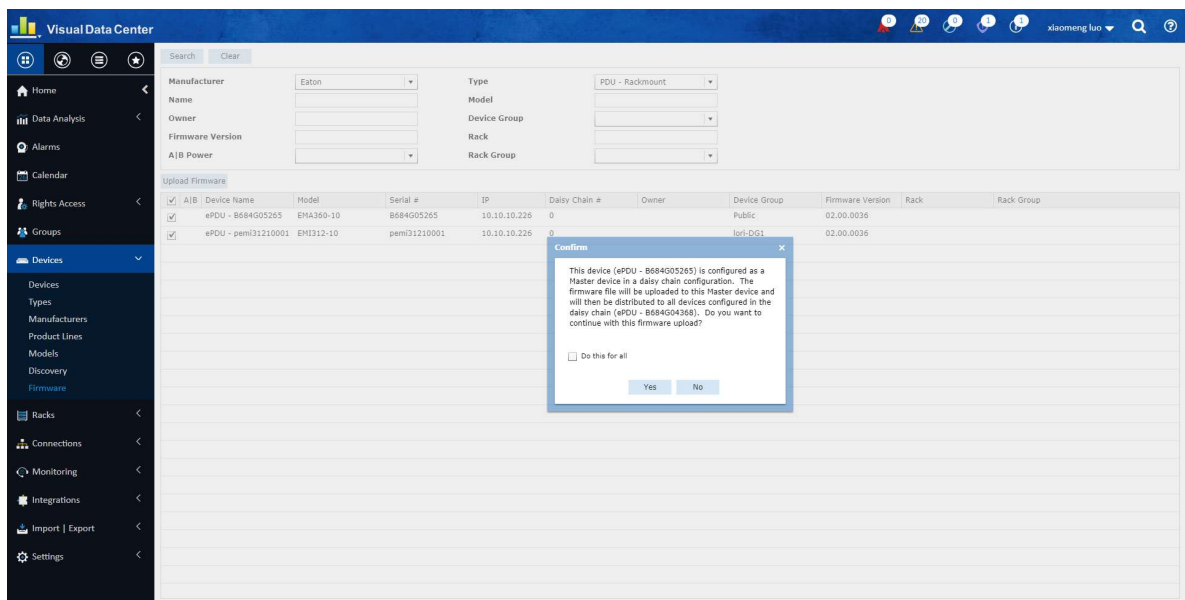
If you upload to the master device the message informs you how it will be distributed to the other devices in the daisy chain.



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**

The screenshot shows the 'Visual Data Center' interface. On the left is a navigation menu with options like Home, Data Analysis, Alarms, Calendar, Rights Access, Groups, Devices, Racks, Connections, Monitoring, Integrations, Import | Export, and Settings. The main area is titled 'Basic Information' and contains a table of device details:

Item	Value
▼ Device	
Name	eUPS - ups-00-20-85-
UUID	58ca5757-9ad7-3445-9d02-d7b4274c6fe5
Type	UPS - Rackmount
Manufacturer	Eaton
Product Line	5P
Model	5P1000
Lifecycle	Available
Asset Tag	
Serial Number	
IP Address	10.10.10.226
Source IP	
WebAdminPort	
Energy Type	placeholder
Owner	placeholder
Department	placeholder
Description	Eaton Gigabit Networ
▼ Physical	
Height	9.06 in

Below this table, there are sections for 'Firmware' and 'Battery'. The 'Firmware' section shows details for 'eUPS - ups-00-20-85-E9-69-6F', including Manufacturer (Eaton), Model (5P1000), IP Address (10.10.10.226), MAC Address (00:20:85:e9:69:6f), Asset Tag, Serial Number, and Firmware versions (Hardware: 02.14.0026, Software: 1.5.1). The 'Battery' section shows 'Remaining Time' (0H 30M 0S), 'Voltage' (270.00 V), 'Current', 'Charge Remaining' (100.0 %), 'Status' (Battery Discharging), 'Last Replace Date' (2019-04-16 10:36:58 CST Discovery), 'Seconds On Battery' (0), and 'Temperature' (°F). There are also 'Input' and 'Output' sections with various metrics like Frequency, Line Bids, Number of Phases, and Source.


The screenshot shows the 'Visual Data Center' interface with the 'Upload Firmware' dialog box open. The dialog box has a table for uploading firmware files:

Type	File	Version	Description	Added Date	Added By

Below the table, there is an 'Add' section with a 'File' input field, a 'Browse' button, a 'Version' input field, and a 'Description' input field. The 'Type' is set to 'UPS - Rackmount'. In the background, the 'Basic Information' page is visible, with the 'Type' dropdown menu set to 'UPS - Rackmount' and the 'Upload Firmware' button highlighted in red.

- **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 Last Replace Date attribute on the device and return UPS devices which meet the criteria.



Visual Data Center  
OPI

UPS Battery Replacement

---

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

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

Dashboard

Graphs

Ports

Connections

Alarms

Calendar

Attributes

Monitor

Applications


Images

Groups

Links

Real-time Monitoring Data

▼ All > Attribute contains firmwa

Actions	Attribute	Data Source	Value	Unit	Last Updated
	firmwa	Search...	Search...	Search...	Start date ~ End date 
	Firmware - Hardware	UPS - Eaton M2	02.14.0026		2019-04-16 14:18:27 CST
	Firmware - Software	UPS - Eaton M2	1.5.1		2019-04-16 14:18:27 CST

<< < 1 to 2 of 2 > >>

Eaton PDU

Dashboard | Graphs | Ports | Connections | Alarms | Calendar | Attributes | Monitor | Applications | Images

Groups | Links

Real-time Monitoring Data

▼ All > Attribute contains firm

Actions	Attribute <input type="text" value="firm"/>	Data Source	Value	Unit	Last Updated
	<input type="text" value="firm"/>	<input type="text" value="Search..."/>	<input type="text" value="Search..."/>	<input type="text" value="Search..."/>	Start date ~ End date <input type="text" value="26"/>
	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.

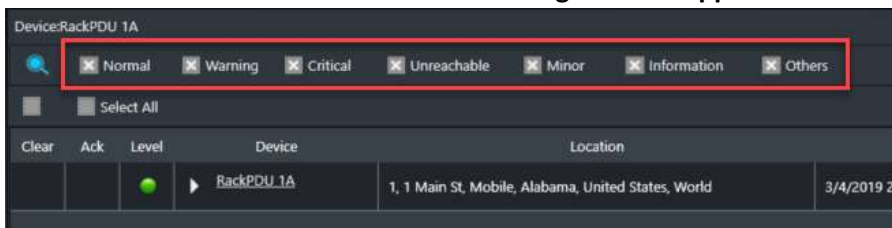
The following list of features, enhancements and changes are included in the 6.0.0 version of the product as related to the 3D client interface.

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.

Capacity Planner

Analyze Advanced Print

Site Energy Information

Current PUE	Estimated Yearly Power Consumption(kWh)
Current DCIE	Estimated Annual Cost (\$)
IT Power (kW)	Estimated Yearly CO2 Emission(Tons)
Total Power (kW)	

Space Summary

Total/Raised-Floor Area	Total Network Ports
Grey/White Area	Used Network Ports (Raw/%)
Count - Racks	Available Network Ports (Raw/%)
Total Front Rack U	Reserved Network Ports (Raw/%)
Used Front Rack U (Raw/%)	Broken Network Ports (Raw/%)
Available Front Rack U (Raw/%)	Total Storage Ports
Total Power Ports	Used Storage Ports (Raw/%)
Used Power Ports (Raw/%)	Available Storage Ports (Raw/%)
Available Power Ports (Raw/%)	Reserved Storage Ports (Raw/%)
Reserved Power Ports (Raw/%)	Broken Storage Ports (Raw/%)
Broken Power Ports (Raw/%)	

- **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.

View Only Mode

Rack002, 1, 1 Main St, Mobile, Alabama, United States, World

OPSCustomer

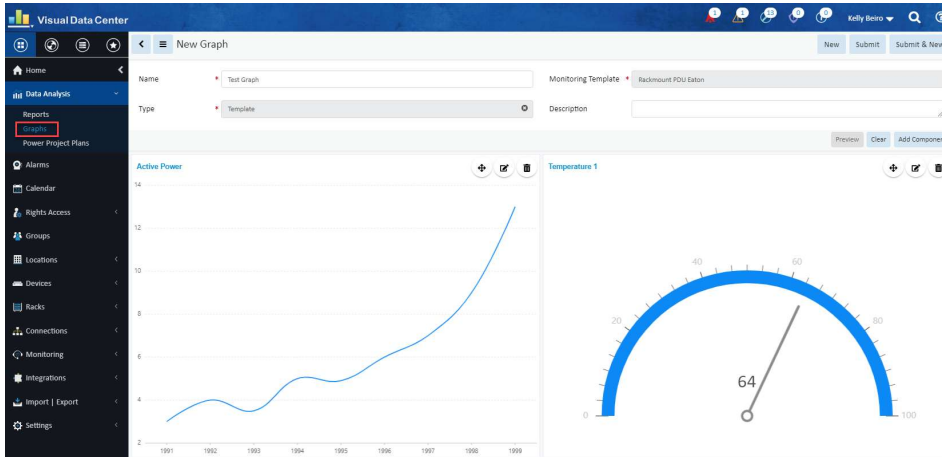
Attributes

Actions	Attribute	Value	Unit	Last Updated
	Active Power	10000.00	W	2019-03-04 14:24:03 EST

Rack002  
Col: H, Row: 8



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.

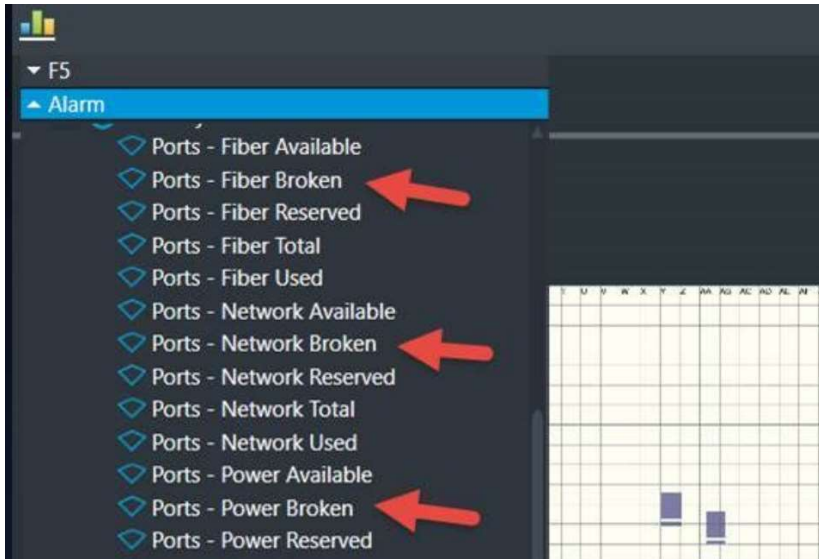
Alarm Detail

Device Name: training-CRAC001  
Column:  
Row:

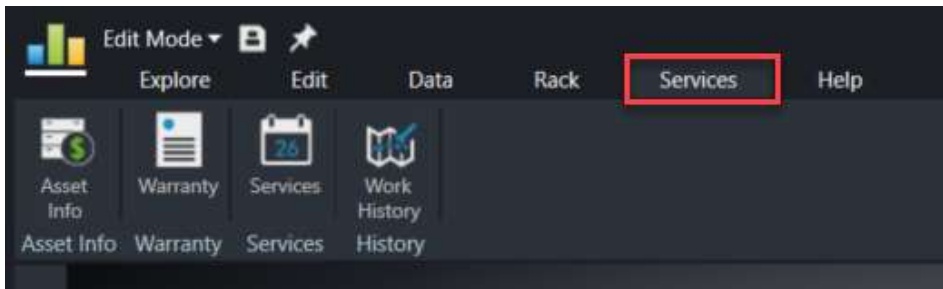
Device Name	Timestamp
training-CRAC001	2019-03-04 14:15:26.720-05
Trigger Name	Timestamp
High Humidity	2019-03-04 14:15:26.720-05
High Temp	2019-02-28 14:56:03.470-05

Attributes: Humidity : 23.0 %; Rules: Humidity > 10 %

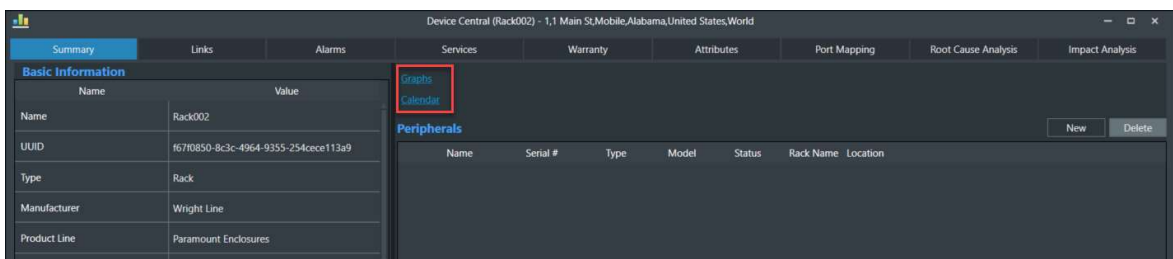
- **3347 Layer View now has Broken Fiber, Network and Power Ports in List**



- **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.

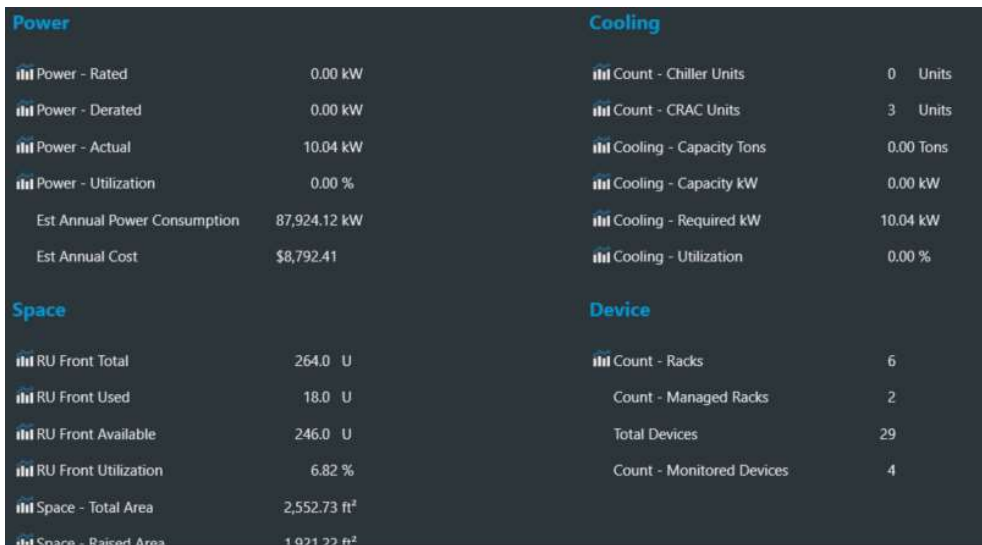


- **3350 Alarm LEDs Removed from Home Page Site Data**

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.