CenterScape: Configure Virtual Tags in CenterScape



Power Sensors

A new concept called virtual tags for RPDU power sensors has been introduced to CenterScape 1.5.1. A RPDU power sensor supports reporting of power metrics for daisy chained PDUs through a single sensor. Depending upon the RPDU model, up to four (4) daisy chained PDUs are supported. A PDU virtual tag appears as an independent tag that can be assigned to a given rack and reports Phase, Line, Outlet and Branch power metrics depending on the PDU model. Thus, it must be imported and configured separately from the Master Asset Tag.

Before the RPDU power sensors can start collecting and storing rack PDU metrics, some CenterScape configuration must be completed. Initially the RPDU power sensors will send supplemental messages that identifies and instruments all rack PDUs, Master and Link configurations attached through the sensor. These supplemental messages and may take up to four (4) hours to collect, depending on rack PDU models and number of daisy-chained units.

To improve the device discovery, it is important to follow these steps to ensure virtual tags are imported properly into CenterScape.

- 1. Upgrade to CenterScape 1.5.1 using the normal upgrade process.
- 2. Ensure all power tag groups of interests have been added and configured in the "Admin Console"
- 3. Allow up to 5 hours for the supplemental messages from the RPDU power sensors to be received and processed by CenterScape.
- 4. Next, import the virtual tags in the "User Console". From the "User Console" in the "Tasks" pane (left side) click on "Tag Management".
- 5. In the main "Import Tags" window, select the "Import Detected Tags" option from the pull-down menu for "Add/Import Method:"

CenterScape:	Search	RF CODE		
Tasks	~	Import Tags		Unassigned Tags
Bookmarks V V Do decord Tag Management 4 Manage Tags		Add/Import Method: Individual Tag Entry 5 Individual Tag Entry Import Detected Tag Tag Group: Tag ID: Add Tag		Remove All Asset Tag Service Date
💑 Assets	+			
Maps	٠			
Reports / Graphs	+			
Events	٠			4
👃 Alert Management	٠			Page 0 of 0 P P R No data
Profile: admin				Logout Link About Help Admin Console

6. Under "Tag Group" select the power sensor tag group of interest, "STIRCK", "STIPRO" or "PDUPWR"; then click "Load". All assets using that group code will appear in the "Import Tags" window.

🧀 CenterScape: Mana	ge Tags		Searc	n RF	CODE
Tasks	Import Tags			Unassigned Tags	
Bookmarks 💌 🥹 🔏	Add/Import Method: Import Detected Tags			C Remove	
🕎 Dashboard 🕢 💽	Zone Manager: Tag Group: Tag Fi	ter:		Asset Tag	Service Date
🔺 Tag Management 🗧	All Y PDUPWR Y	Load 6 7 🛹 Add Selected Tag(s) 🛕 Add II Tags		
Manage Tags	Tag ID 🔺	Zone Mgr			
	PDUPWR00000016	Local Zone Manager			
	PDUPWR00000019	Local Zone Manager			
	PDUPWR00000067	Local Zone Manager			
	PDUPWR00000068	Local Zone Manager			
	PDUPWR00000077	Local Zone Manager			
	PDUPWR00000088	Local Zone Manager			
	PDUPWR00000089	Local Zone Manager			
	PDUPWR00000099	Local Zone Manager			
	PDUPWR00000103_pdu2	Local Zone Manager			
	PDUPWR00000103_pdu3	Local Zone Manager			
	PDUPWR00000103_pdu4	Local Zone Manager			
	PDUPWR00000111	Local Zone Manager			
	PDUPWR00000113	Local Zone Manager			
	PDUPWR00000114	Local Zone Manager			
	PDUPWR00000115	Local Zone Manager			
	PDUPWR00000117	Local Zone Manager			
	PDUPWR00000118	Local Zone Manager			
	PDUPWR00000120_pdu2	Local Zone Manager			
	PDUPWR00000120_pdu3	Local Zone Manager			
Accets	PDUPWR00000275	Local Zone Manager			
	PDUPWR00000280	Local Zone Manager			
Maps 💽	PDUPWR00000282	Local Zone Manager			
Reports / Graphs	PDUPWR00000285	Local Zone Manager			
	PDUPWR00000286	Local Zone Manager			
Events (*				•	•
👃 Alert Management 🛛 💽	Page 1 of 2 🕨 🕅 😂	1-	24 of 29 Fit 💌	I	No data
Profile: admin				Logout Link About Hel	p Admin Console

- 7. Select the virtual power sensors by their associated Tag ID and the suffix "_pdux", where x is 2, 3 or 4; then click on "Add Selected Tags". Tags selected will appear in the "Unassigned Tags" pane.
- 8. Leave these virtual tags "Unassigned", as they will be imported using a spreadsheet. Details to follow.

Create An Export View

- 1. Create an "Export View" for the RPDU; Click on the "Admin Console", then in the left hand pane click "Customization" and select "Views".
- 2. In the center pane click on "New" and in "Basic Information" add "Name" RPDU Export View
- 3. Select the following attributes:
 - a. Name
 - b. Asset Tag
 - c. Assigned To
 - d. Assigned Location
 - e. Input PDU Power Cord
 - f. Monitor Phase Balance (3-phase-only)
 - g. Monitor Available Line Capacity
 - h. Circuit Feed (Input Power Cord 1)
 - i. Redundancy Group (Input Power Cord 1)
 - j. User Specified Input Current Per Phase (Input Power Cord 1)
 - k. Branch Circuit (input Power Cord 1)
 - l. PDU Model



4. Click "Save Changes".

Export Master RPDU Asset Tags

- 1. In the "User Console, in the left hand pane click on "Assets" then select "Manage Assets".
- 2. In the main window select the drop down menu under "Type", choose RPDU and click on "Go". All the master RPDU asset tags should display.
- 3. In the upper right hand corner in the main CenterScape window, use the drop down menu to choose the newly created "RPDU Export View".

🔣 CenterScape: Mana	ge Assets							Search		RF	CODE
Tasks	🔇 New 🏹 Edit 🍳 Vie	w 🥥 Retire	🤤 Unretire 🤤	Delete 🕵 Export					🕡 Pause Upda	te RPDU Exp	port View 💌
Bookmarks 💌 🥹 🔏 🕎 Dashboard 🕒	Type Assigned Location RPDU V CDC BIRMIN	on Status GHA 🗸 Active	Attribu	ite Operator Value			9	⁶⁰ 2	Auto-Start?	Equipmen HW Insta	it View Il Template
A Tag Management	Name	Asset Tag	Assigned To	Assigned Location	Input PDU Power	C Monitor Available L	Monitor Phase Ba	a Circuit Feed (Inpu	Branch Circuit (Inp P	over View SMT	lidation
	CDC BIRMINGHAM-039.28-CDUSensor	STIPRO00000703	CDC_BIRMINGH	039.28	Single	Yes	Yes	A	Circuit A U	se s Import va	lidation
Assets 📃	CDC BIRMINGHAM-166.46-CDUSens	STIPRO000008	CDC_BIRMINGH	166.46	Single	Yes	Yes	в	Circuit B U	se S Josh tesc	Varified View
Copy of Manage Assets By Location	CDC BIRMINGHAM-174.26-CDUSens	STIRCK0000720	CDC_BIRMINGH	174.26	Single	Yes	Yes	В	Circuit B U	Se S Locadon I	Phase and 3
Environmentals	CDC BIRMINGHAM-084.45-CDUSens	STIPRO000007	CDC_BIRMINGH	084.45	Single	Yes	Yes	В	Circuit B U	Rack	Pridae driv
- Equipment	CDC BIRMINGHAM-147.27-CDUSensor	STIRCK00007226	CDC_BIRMINGH	147.27	Single	Yes	Yes	A	Circuit A U	NZ to RFC	C Reconcile
🐇 Manage Assets	CDC BIRMINGHAM-235.27-CDUSensor	STIRCK00006312	CDC_BIRMINGH	235.27	Single	Yes	Yes	A	Circuit A U	se S View-ADM	1IN ONLY
Monage Assets By Detected Location	CDC BIRMINGHAM-014.22-CDUSens	STIPRO000008	CDC_BIRMINGH	014.22	Single	Yes	Yes	В	Circuit B U	se S power	
Manage Assets By Location	CDC BIRMINGHAM-084.51-CDUSens	STIPRO00000739	CDC_BIRMINGH	084.51	Single	Yes	Yes	A	Circuit A U	se S Rack Pow	er View
Manage Assets By Power	CDC BIRMINGHAM-195.52-CDUSensor	STIRCK00010547	CDC_BIRMINGH	195.52	Single	Yes	Yes	A	Circuit A U	se S Rack Pow	er View DARE
Manage Assets By Temperature	CDC BIRMINGHAM-155.76-CDUSensor	STIPRO0000852	CDC_BIRMINGH	155.76	Single	Yes	Yes	A	Circuit A U	se S RFCode o	utput
Manage Assets By Type	CDC BIRMINGHAM-190.77-CDUSens	STIPRO00000713	CDC_BIRMINGH	190.77	Single	Yes	Yes	A	Circuit A U	se S RPDU Exp	oort View 👻
B Racks	CDC BIRMINGHAM-190.49-CDUSens	STIPRO00000318	CDC_BIRMINGH	190.49	Single	Yes	Yes	A	Circuit A U	se Creation	20100
Search Assets	CDC BIRMINGHAM-039.26-CDUSens	STIPRO000007	CDC_BIRMINGH	039.26	Single	Yes	Yes	В	Circuit B U	ser Specified	7.3 KW
- 🚯 Import Assets	CDC BIRMINGHAM-084.51-CDUSens	STIPRO00002	CDC_BIRMINGH	084.51	Single	Yes	Yes	В	Circuit B U	ser Specified	7.3 kW
	CDC BIRMINGHAM-166.48-CDUSensor	STIPRO0000255	CDC_BIRMINGH	166.48	Single	Yes	Yes	A	Circuit A U	ser Specified	7.3 KW
	CDC BIRMINGHAM-158.25-CDUSens	STIRCK0000715	CDC_BIRMINGH	158.25	Single	Yes	Yes	В	Circuit B U	ser Specified	7.3 kW
	CDC BIRMINGHAM-039.22-CDUSens	STIPRO000006	CDC_BIRMINGH	039.22	Single	Yes	Yes	В	Circuit B U	ser Specified	7.3 kW
	CDC BIRMINGHAM-187.22-CDUSensor	STIRCK00006185	CDC_BIRMINGH	187.22	Single	Yes	Yes	A	Circuit A U	ser Specified	7.3 kW
	CDC BIRMINGHAM-147.24-CDUSens	STIRCK0000724	CDC_BIRMINGH	147.24	Single	Yes	Yes	В	Circuit B U	ser Specified	7.3 kW
	CDC BIRMINGHAM-087.50-CDUSensor	STIPRO0000287	CDC_BIRMINGH	087.50	Single	Yes	Yes	A	Circuit A U	ser Specified	7.3 kW
	CDC BIRMINGHAM-095.28-CDUSensor	STIRCK00006199	CDC_BIRMINGH	095.28	Single	Yes	Yes	A	Circuit A U	ser Specified	7.3 KW
Maps (+	CDC BIRMINGHAM-174.52-CDUSensor	STIRCK00010590	CDC_BIRMINGH	174.52	Single	Yes	Yes	A	Circuit A U	ser Specified	7.3 kW
	CDC BIRMINGHAM-142.22-CDUSensor	STIRCK00007232	CDC_BIRMINGH	142.22	Single	Yes	Yes	A	Circuit A U	ser Specified	7.3 kW
Reports / Graphs +	CDC BIRMINGHAM-195.51-CDUSensor	STIRCK00010578	CDC_BIRMINGH	195.51	Single	Yes	Yes	Α	Circuit A U	ser Specified	7.3 kW
Events 🔹	CDC BIRMINGHAM-108 23-CDI ISensor	STIRCK00006211	CDC BIRMINGH	108 23	Sinnle	Yes	Yes	۸	Circuit A II	ser Snerified	73 kW *
💄 Alert Management 🔹	1 Page 1 of 44	2								1 - 25 of	1092 Fit 💌
Profile: sixsigma	ofile: sixesioma										

- 4. Next in the main window, click on "Export" and a pop up window will appear to export the configuration.
- 5. In the pop up window under "Attributes to Export" select the radio dial button "Export attributes in view".



6. Next click on "Export CSV".

Spreadsheet Manipulation To Add Virtual Tags

 Open the spreadsheet. The columns are the minimum required attributes that provide configuration information for the RPDU asset type. The rows are the individual master RPDUs that have been assigned to racks and are actively monitored. The master RPDU is identified by the attribute \$aAssetTag. It is the Tag ID printed on the RPDU power sensor label.

\$aName	\$aAssetTag	\$aAssignedToSummaryLocation	\$aLocation
CDC SHOREVIEW-			
1BF09-CDUSensor	STIRCK00010047	DATA_CENTER_RACK_45adbb8bd2bd32a6	CDC_SHOREVIEW_ZONE_1_ROW_1BF04_1BF09_RACK_1BF09

- 2. Copy the row CTL+c, and paste it on the following row using "Insert copied cells". This will add a row just below the master RPDU row and shift the other contents down.
- 3. Manipulate the copied row as follows:
 - a. Clear the contents in the "guid" field
 - b. Add a "_pdu2" suffix to the value in the \$aAssetTag column as follows:

\$aName	\$aAssetTag	\$aAssignedToSummaryLocation	\$aLocation
CDC SHOREVIEW-			
1BF09-CDUSensor	STIRCK00010047_pdu2	DATA_CENTER_RACK_45adbb8bd2bd32a6	CDC_SHOREVIEW_ZONE_1_ROW_1BF04_1BF09_RACK_1BF09

c. Modify the following attribute values in the columns for both master and link PDUs. Ensure that the master and link PDUs use independent circuit feeds when configured for 1+1 redundancy by modifying the \$aCircuitCord1 as shown below. Set the \$aPDUPowerAllownceCord1 to the derated power allowance for that circuit or derated value of the PDU input power capacity. Specify in watts.

\$aInputPDUPow	\$aMonitorAvailableL	\$aMonitorPhas	\$aCircuitFeedCord		\$aPDUUserSpecifiedInputCur	\$aPDUM	
erCord	ineCapacity	eBalance	1	\$aCircuitCord1	rentPerPhaseCord1	odel	
			RACK_POWER_CIR			CS39CA-	D.d.a.t.u
\$tInputPDUPowe	<pre>\$tMonitorAvailableLi</pre>	\$tMonitorPhase	CUIT_FEED_A	RACK_POWER_		DQME25	IVIST
rCordSingle	neCapacityYes	BalanceYes		CIRCUIT_A	32	06/Z1	
\$tInputPDUPowe	\$tMonitorAvailableLi	<pre>\$tMonitorPhase</pre>	RACK_POWER_CIR	RACK_POWER_			
rCordSingle	neCapacityYes	BalanceYes	CUIT_FEED_B	CIRCUIT_B	32		Link

d. Repeat steps a through c for the each master PDU in the spreadsheet.

Note: Before the spreadsheet is imported to CenterScape delete the \$aPDUModel column. CenterScape will automatically fill the value for this field.

Import Virtual Tags To CenterScape

- 1. In the "User Console" in the left hand pane click on "Assets" then select "Import Assets".
- 2. In the main window upload the new import file. Click "Browse" and locate the import file; then click "Upload".

🚯 CenterScape: Impor	Search	RFCODE						
Tasks 🔍		Ale to serve a						
Bookmarks 💌 🔮 🔏	Asset File:	C:\fakepath\sample_imp	port_rpdu_master_link.c	SV	Browse			
Dashboard	🖹 Upload				2			
📥 Tag Management 💿								
🐣 Assets 📃	Import Jobs							
Environmentals	Delete							
🗃 🦲 Equipment	Submitter	Start Time	End Time	Job Filename	Job Status	Job Message		Job Progress
- 🚳 Manage Assets	ADMIN	2021-01-28 13:09:26	2021-01-28 13:09:26	import-stipro64pdu2_rack100.csv	COMPLETE	Assets: 1 of 1		
Anage Assets By Detected Location	ADMIN	2021-01-28 12:54:04	2021-01-28 12:54:04	import_1_3_5_stipro64_pdu2	FAILURE	Assets: 0 of 1		Download Errors
- 🚳 Manage Assets By Location	ADMIN	2021-01-28 12:53:38	2021-01-28 12:53:38	import_1_3_5_stipro64_pdu2	FAILURE	Assets: 0 of 1		Download Errors
- 鑬 Manage Assets By Type								
🗃 🦳 Racks								
Search Assets								
🚯 Import Assets								

- 3. When it is completed the status on the "Import Jobs" will provide the details on the progress.
- 4. The racks and RPDUs should now be configured to be actively monitored.