

Power IQ® Version 4.3.0

These release notes contain important information regarding the release of this product, so please read them carefully. We strongly recommend you read the entire document.

Applicability:

This firmware release is applicable for both the Power IQ virtual appliance and the hardware appliance and we recommend all customers upgrade to this release due to security updates included.

Release Status:

Power IQ Release 4.3.0 is a General Availability (GA) release.

Very Important Notes:

- **Power IQ release 4.0.x systems with LDAP configured must have a valid email address for each user account prior to upgrading to R4.3.0.**
- **Requirements as of Power IQ release 4.2.x**

Number of PDUS	RAM (GB)	CPU (Cores)	Datastore (GB)	OS	VMWare
Up to 50	4	4	160 or more	CentOS 64-Bit	ESX/ESXi
51 to 100	8	4	160 or more	CentOS 64-Bit	ESX/ESXi
101 to 500	8	6	160 or more	CentOS 64-Bit	ESX/ESXi
501 to 1000	8	8	160 or more	CentOS 64-Bit	ESX/ESXi
1001 to 1500	16	8	160 or more	CentOS 64-Bit	ESX/ESXi
More than 1500	24	8	160 or more	CentOS 64-Bit	ESX/ESXi

- **If PDUs in a port forwarding configuration are not put into maintenance mode prior to the firmware upgrade, there is an issue in the PX2/PX3 firmware that can cause a lost communication error to persist for the slave PDU even after the master PDU is back online. If this occurs the PIQ poller must be restarted to clear the lost communication error. This issue will be fixed in a future release of the PX2/PX3 firmware.**
- **To use IPv6 protocol with PDUs in “port forwarding mode” (single IP), they must be running PX firmware v3.0+.**

Power IQ 4.3.0 contains the following improvements from release 4.2.4:

- Health Floormap Display Facility Objects

Power, Environment, Rack and Facility Object Alerts

Valid Objects
 -Rack
 -Power Panel
 -Floor PDU
 -UPS
 -CRAC
 -Meter

- Dynamic Plugin Trap Support

Traps

SNMP Version: v1 v2c

Enterprise OID:

Enterprise Specific ID:

Event Type:

Event Summary:

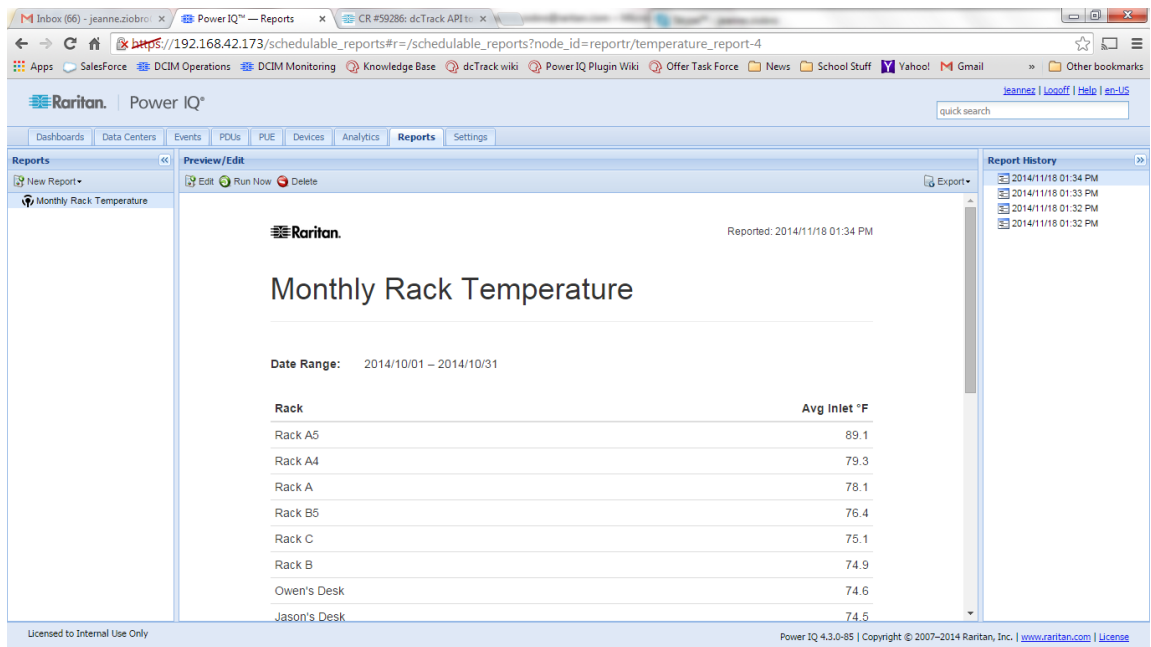
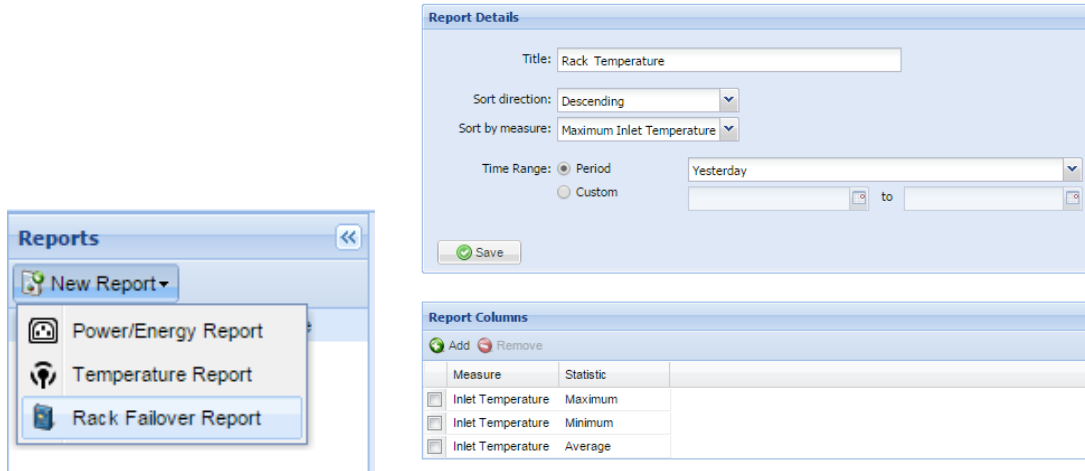
Filter:

OID:

Value:

– **Tabular Reports**

- Power/Energy report add max power measurement
- New Temperature (max/min/avg) Report



– **API support for tag groups and tags**

- Via the REST API, a user can read tags, tag groups, and tag entries; create and destroy tag entries as long as the user has at least Operator permissions on the specific entity.
- A Site Administrator can create, update, and destroy tags and tag groups via the REST API.

– AMPs “Failover Simulation Report”

- This report is to provide a way of preemptively identify racks that may fail the fail-over simulation. i.e. the racks that will completely lose power when one of the two redundant power sources fail or is turned off for maintenance. This report can be run on demand or scheduled by the user. This report uses past history to predict future failure.

Report Details

Title: Failover 1st Floor

Location: 1st Floor

Time Range: Period Last Complete Poll Custom [] to []

Sort By: Rack Name

Sort direction: Rack Name
Rack Utilization

Schedules

Frequency	Day	Attachment	Email to

Monthly Rack Failover

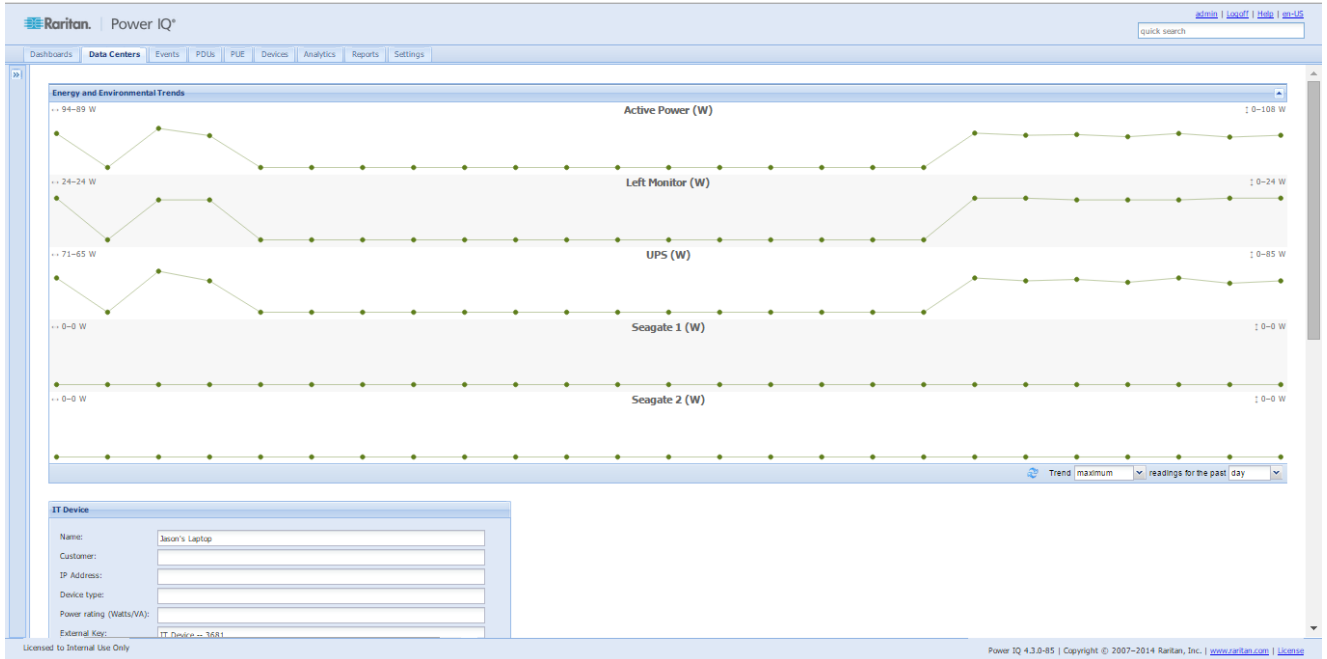
Date Range: 2014/10/18 – 2014/11/17
Location: Power IQ

Rack B

	Capacity (A)	192.168.42.50 Raritan DPC520-20		192.168.42.51 Raritan DPC520-20		Failover Simulation	
		Load (A)	Utilization	Load (A)	Utilization	Load (A)	Utilization
Inlet	20	16.02	80.1%	8.07	40.4%	24.09	120.5%
Highest Utilization:						24.09	120.5%

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– IT Device Smart Pages



– Support Additional PX2 Traps and Include Measured Readings and Threshold Level in Alerts

Event Details

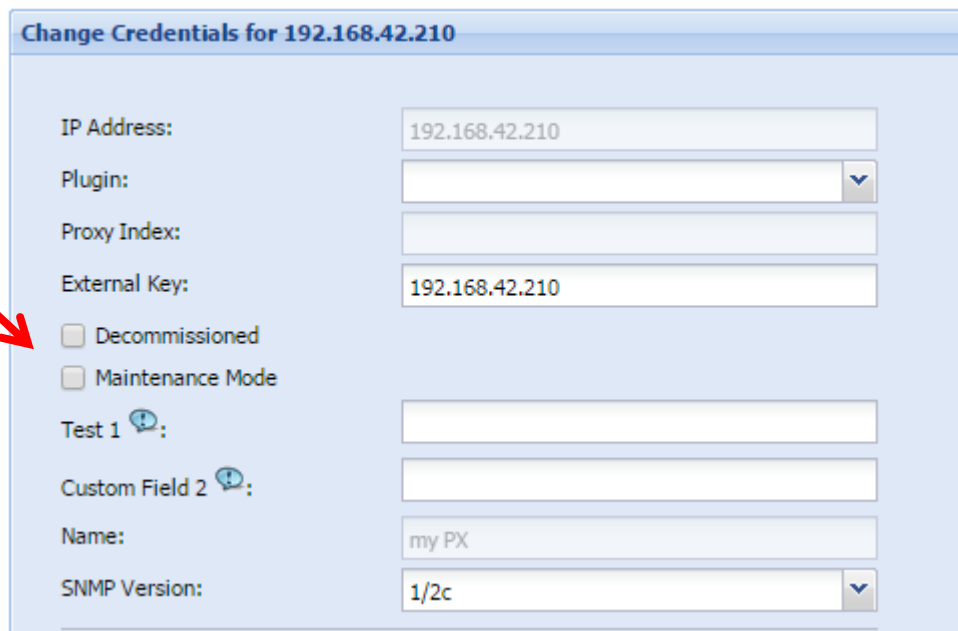
Event	Inlet under voltage		
Status	Active	Severity	Warning
Occurred at	11/12/14 01:43:29 PM EST	Target	ePDU
Summary	Inlet 1, pole 1: voltage 207.06V is under warning threshold		
Cleared events	None		

Cancel Clear This Event

Event Parameters

Ordinal	Parameter	Value
	inletPoleNumber	1
	inletLabel	1
	voltage	207.06

- **Support PX Port Forwarding for 2 PDUs**
 - Proxy Index
 - Same support as other PDUs
- **Support PDU Decommission and Maintenance Mode**



Change Credentials for 192.168.42.210

IP Address: 192.168.42.210

Plugin: [Dropdown]

Proxy Index: [Text]

External Key: 192.168.42.210

Decommissioned

Maintenance Mode

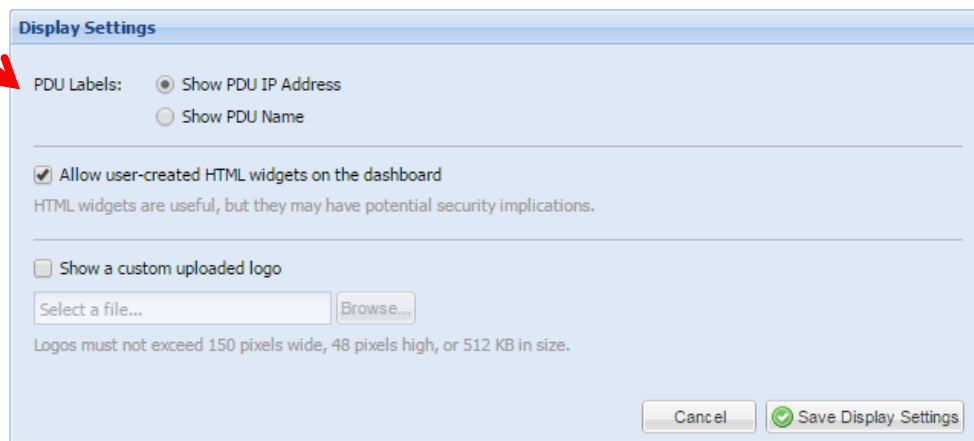
Test 1 ⓘ: [Text]

Custom Field 2 ⓘ: [Text]

Name: my PX

SNMP Version: 1/2c [Dropdown]

- **Enhance IT Device Permissions and Hide PDU IP address**



Display Settings

PDU Labels: Show PDU IP Address
 Show PDU Name

Allow user-created HTML widgets on the dashboard
HTML widgets are useful, but they may have potential security implications.

Show a custom uploaded logo

Select a file... [Browse...]

Logos must not exceed 150 pixels wide, 48 pixels high, or 512 KB in size.

[Cancel] [Save Display Settings]

- **Break-up Daily Sensor File**

- Customers with a large amount of PDUs that enable the "Store raw readings in CSV files on disk" option encounter the issue of the csv file being so large that after downloading from the appliance, it cannot be opened with Excel or MS Access for viewing. In some cases, the file does open but after an extremely long wait making the feature unpractical to use. In this release, the .csv file will break into another file once a certain number of rows in the csv file have been reached or once the existing daily break point is reached whichever comes first. The file will never break data of a particular PDU.

- **Security Enhancements**

- GUI
 - Configurable ODBC User name and Password
- Console
 - Lock and unlock root user accounts
 - Stays unlocked on upgrade
 - New installs are locked by default

Power IQ 4.3.0 contains the following software updates based on customer reported items:

Issue ID	Summary
56220	PowerIQ will not send notification when a ServerTech slave PDU goes offline
57377	Every user in PowerIQ can manipulate flags in the PUE tab
57591	Bug in the column sorting in the smart rack page and pdu page PDUs may show as unmanageable in PowerIQ or the user might not be able to add a PDU due to a conflict with the dynamic plugin on their system
58185	
58188	Bulkconfig may roll out to more PDUs than just those selected PDUs in the plan
58739	No longer able to search /api/v2/pdus by name
58835	PowerIQ may perform poorly for a period of time after a poller restart due to rebuilding its internal catch
58861	PowerIQ - View Events Associated with this PDU shows all events
58984	After loading a database on to New PIQ Hardware, user receives an error when scanning PDU
59001	Java script error adding Floor Map Widget in IE 9
59199	Cannot power off/on outlets Avocent PM3000 from PIQ when a proxy index isn't specified (PIQ will assume a proxy index of 1)

Important Notes:

Issue ID	Summary
	The cooling chart export feature requires Flash 12 or earlier to function properly
50430	When IP Address Change is applied via CSV, a rescan will fail right afterwards
50895	PUE - gauge needle points to red area of dial when there is no PUE data
51446	Env Sensor trap from APC shown on the Events page with Sensor "unknown"
52977	REST - removing association of outlet/circuit to IT Device fails using square brackets
53551	Sensors that aren't associated with a node in the EDM tree will automatically associate themselves with their parent PDU in the EDM tree. The task that performs this action runs every 5 minutes.
55455	Daily Rollup doesn't occur the night after Daylight Savings kicks in
55591	When a rack has a mix of Raritan PX's running in data buffered mode and PDU's that are not running in data buffered mode (generally non-Raritan PDU's), the Rack Power Spark line charts in the Smart view may only show partial power values.
55874	The state of a sensor no longer impacts the state of the rack PDU it is physically attached to. The state of the sensor impacts the sensor status and the EDM object it is associated with such as a rack or a room.
56121	- If you click on a sensor that's not been associated with a EDM object such as a rack. (generally meaning the PDU it's attached to hasn't been placed in a rack) you'll get a message saying no object found.
56375	User may need to issue a rescan in order to see latest transfer switch readings and active/preferred inlet state if it switched since the last poll.
56479	User may need to manually clear some events after an ATS loses power while in Standby mode.
57277	When PX bulk config contains a change to the PDU password, PIQ will fail the final login for verification
57428	When poller is down for a few days and comes back up, the watt hour deltas will be elevated
57813	Unable to get Power IQ login page with latest Firefox 31
57987	PIQ 4.2.2-1 still seems to hang in the UI on the upgrade to 4.2.3-3.
58053	Unable to repair LDAP accounts after PowerIQ upgrade
58141	Add support for new 'nonRedundant' state for Raritan transfer switch
58844	Port-forwarding: slaves are "Unmanageable" using IPv6 networking
58756	Document issue with port forwarding where connectivity lost to slave if master is firmware upgraded
59472	On rare occasions, when bulk importing PDU's that use a dynamic plugin, the first one or two PDU's in the list might not get added. If this happens, either try reimporting them or manually adding them.

Existing Power IQ 4.x.x Customers:

The upgrade is free for customers with a valid software maintenance agreement. Download the Power IQ 4.3.0 software upgrade bin file named power-iq-v4.3.0.bin from <http://www.raritan.com/support/power-iq/>. The upgrade bin file can be installed via the Power IQ web client. In the Settings tab, click Software Upgrades, then click Browse to upload the upgrade bin file. Contact tech@raritan.com if you have any questions. Contact your reseller or sales@raritan.com to buy a contract if yours has expired.

Existing Power IQ 2.0.1, 2.1.0, 2.1.1 3.0.0, 3.0.1, 3.1, 3.1.1, 3.1.2 & 3.1.3 Customers:

Release 4.3.0 requires a new install due to the upgrade of CentOS and a change in the file structure. Your current Configuration and Data can be backed up (use an unencrypted back-up) and restored to the new 4.3.0 system. This upgrade should take less than 30 minutes. The upgrade is free for customers with a valid software maintenance agreement. Click <http://www.raritan.com/support/power-iq/> Then login to the customer portal (at the top right of this support page) to gain access to the Release 4.3.0 upgrade material. Access is limited to customers covered by a valid software maintenance agreement. Contact customer service at customerservice@raritan.com if you have problems with login. Contact tech@raritan.com if you have any technical questions. Contact your reseller or sales@raritan.com to buy a contract if yours has expired.

Existing Customers with Releases Prior to 2.0.1:

Your system must first be upgraded to 2.0.1. Please see the release upgrade path - <http://www.raritan.com/support/power-iq/>. Then read the appropriate release notes. Contact tech@raritan.com if you have any questions.

Five Device Evaluation Versions

Cannot be upgraded. You must download the new release and configure a new virtual appliance. You can back-up your system and restore it to the new system.

Browser Compatibility:

- Chrome 38
- Mozilla Firefox v7 – v33
- Internet Explorer v8, v9 and v10
- Safari v7.0.4

PX Compatibility:

- PX1 – Release 1.3.5 or higher
- PX2 – Release 2.0 or higher
- PX3 – Release 3.0.2 or higher

CC-SG Compatibility:

- Release 5.2, 5.3, 5.4 & 6.0 - Vendor Agnostic Power Control with Configuration Sync

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