

Power IQ™ Version 1.5.1

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 and the related documentation available for this product.

Applicability: This firmware release is applicable for both the Power IQ virtual appliance and the hardware appliance.

Release Status: Power IQ Release 1.5.1 is General Availability (GA).

Existing Power IQ 1.4.0-14 & 1.4.1 Customers:

Release 1.5.1 requires a new install due the upgrade of the Linux® OS. Your 1.4.0-14 & 1.4.1-3 Configuration and Data can be backed-up and restored to the new 1.5.1 system. The upgrade package is provided at no charge for customers covered under the software maintenance agreement. You can start the process by sending an email to orders@raritan.com with the following information for license validation and creation:

- a. Power IQ administrator information
 - i. Full name
 - ii. Email address
 - iii. Company name
 - iv. Shipping address
- b. Proof of purchase of your Power IQ
 - i. Screenshot of your Appliance Information on your Power IQ Settings page
 - ii. Original PO number or copy of PO or associated invoice.
- c. Request one of the following two SKUs
 - i. PWIQ-UPGRADE-VA – For the VMware Virtual Appliance Upgrade License Key, DVD and Documentation.
 - ii. PWIQ-UPGRADE-E1 - For the Raritan Hardware Appliance License Key and Field Upgrade.

Please contact Raritan technical support if you have any questions or for upgrade support - <http://www.raritan.com/support/contact-support/>

Existing Power IQ 1.5.0 Customers:

Download the Power IQ 1.5.1 Software Upgrade Bin File from <http://www.raritan.com/support/power-iq/>. Release 1.5.1 can be installed via the Power IQ GUI. Click Settings Tab, Click Software Upgrades link, Browse For Bin file to upload. The package self installs.

Five Device Evaluation Versions – Cannot be upgraded to 1.5.1. You must download the new release and configure a new virtual appliance. You can back-up your 1.4 system and restore it to the 1.5.1 system. The new version can be found at <http://www.raritan.com/support/power-iq/>

Power IQ 1.5.1 contains the following improvements over 1.4:

- Web Services API - Enables customers or third parties to integrate with enterprise systems and/or build custom tools.
 - Power Control API
 - Configuration API
- Support for the following devices
 - APC Symmetra PX and Liebert NPower UPSs for energy data reporting.
 - ServerTech rack PDU temperature and humidity probes
 - NetBotz Manager for temperature and humidity probes
 - PX-3K inline meters
- Record and display sensor labels
- Localized in English, French, German, Japanese and Simplified Chinese
- Current(amp) as a chartable option
- Increased Scalability
 - Support data storage options from 80GB to 160GB
 - Increase size of DB allocated to power data storage from 8GB to:
 - 80GB Drive – 25GB
 - 160GB Drive – 50GB
- Support deployments up to 5,000 PDUs
 - 1,500 Outlet Metered (15 Min. Samples) or
 - 5,000 Line Metered (15 Min. Samples) or
 - a weighted combination: 5,000= 3.3OM + LM
- Certified as VMware Ready
- Separated License Key from the Software.
- Upgrade Linux® OS Version
- Firmware management, power control, outlet naming and standard polling data collection for Raritan PX2
- Ability to set user preference for number of PDUs to display in PDU lists.
- Power Control role now has permission to schedule power control tasks.
- SNMPWALK Tool
- dcTrack as a optional licensed module.

The following 1.4 and 1.5.0 field reported items have been close in this release:

24047 - Fixed the user roles so no users can lose their registered role.

25043 – MRV plug-in improvements

23955 – Added more diagnostic readings and improved log file retention

25323 – Display unit name for Eaton PDU

25256 – (1) Modify the APC plugin to use SNMPv1 instead of SNMPv2 to communicate with all APC devices. With this change PIQ will at least be able to discover these APC pdus and show the limited information made available by the APC's SNMP agent. (2) Modify the APC plugin to check for the availability of unit level active power. If the target device does not provide this information via the MIB then the status of the PDU will be set to DEGRADED (ie, "Poll Incomplete" in the PIQ user interface). With these two changes end users will be able to discover all their APC rack PDUs with PIQ and PIQ will flag those that don't support unit active power w/ the DEGRADED status. From the PIQ web user interface, end users will be able to view the firmware revision of their APC units and determine which units need to have their firmware revision upgraded.

25177 – Corrected displayed phase for MVR

24665 – Corrected displayed phase for APC

24344 – Corrected outlet power-on issue.

25277 – Retain filters on pdu health status page when moving to next page

26223 – Restore from 1.4.x to 1.5 did not include PDU to parent object associations

25810 - Non-Raritan PDU voltage set under the default layer uses the single phase setting

25626 - Only allow one active restore process at a time

25548 - Last and past hour temperature graph does not show the lines

24592 - ServerTech PDU with 24 outlets only shows 16 outlets

25589 – PDU ODBC View does not have Proxy Index

25491 - ODBC settings saved in backup/restore

25464 - Analytics past year graph is off by one month

25455 – Users can be added to a group from the user information page

Power IQ 1.5.1 and PX compatibility:

- It is highly recommended that all PX firmware upgrades be performed via Power IQ. Please refer to the PX release notes for the valid upgrade paths.
- Power IQ requires firmware 1.1.0-6684 or higher for data collection and other functionality. Older PX's will be detected and have a "WARNING" state).
- Data buffering requires PX 1 .2.x or higher.
- Power control requires PX 1 .2.x or higher
- Does not support data buffering or bulk configuration for PX2

Browser Compatibility:

- Mozilla Firefox v2 & v3
- Internet Explorer v6, v7 & v8

Known Issues

- CR25524 – You should reboot Power IQ after making any changes to the network settings in the serial console including the initial installation. If you don't reboot, power control status messages issued in response to web service API power control commands might be delayed up to 5 minutes. If you notice this condition you can resolve by rebooting.

- CR2399 - Modify Chart Settings on one chart at a time. If you attempt to modify more than one chart at a time you might see a second line in the filtering section of the Chart Settings Form or Chart Settings might transfer between the Charts. Click the Analytics tab to clear.

Other Important Release Information:

1. Don't Change Data Storage Time Period Configuration from default settings until you confirm your settings with our Data Storage Capacity Calculation tool. Found at <http://www.raritan.com/support/power-iq/> - See the User Manual for more details.
2. Chart Settings – The “Data From” and the “Contained In” chart setting filters are related. The “Contained In” filter is a sub filter of the “Data From” filter and is an available filter when you select any item from the “Data From” filter except for “All”.
3. Database restore via the Admin GUI can only be used for back-ups of standard released GA versions – 1.4.0-14, 1.4.1-3 & 1.5.0-12
4. Sensor reading CSV zip files are not included in the back-up so if you use them you should copy them off your system before you migrate to 1.5.
5. Enabling the Network Time option in the serial console has no affect for VMware release versions of Power IQ. In this case, Power IQ will calibrate its time using the clock of the VMware platform. For accurate time-stamping, please configure your VMware platform to use NTP.
6. The Dashboard Analytic Chart and charts on the Analytic tab require an enterprise data model to be configured. A default one can be generated from the Enterprise Relationships page in the Settings tab or one can manually be configured from the Data Centers tab. Additionally one can be manually created in a CSV file to import into the system. Please consult the User's Guide for more information.
7. No Syslog messages are sent for enterprise data model object creation, modification, and deletion actions.
8. The quick search field only can be used to find a specific PDU by IP address.
9. Avocent and MRV PDUs require entry of a proxy index in the "add PDU form" to identify the individual PDU in the serial chain; if the PDU is not in a serial chain “1” should be used.
10. Power Control state updates immediately upon successful completion of power control operation. Active power and current values are updated upon completion of next polling interval and page refresh.
11. API consultation is a billable professional service – Order one VAS-PWIQ for each hour of consultation you would like to purchase.

***Release Notes: Power IQ 1.5.1
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