



Power IQ[®] DCIM Monitoring Version 5.2.2

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

Applicability

This firmware release is applicable for both the virtual appliance and the hardware appliance. We strongly recommend that all customers upgrade to this release.

Release Status

Power IQ Release 5.2.2 is a General Availability (GA) release.

Software Enhancements

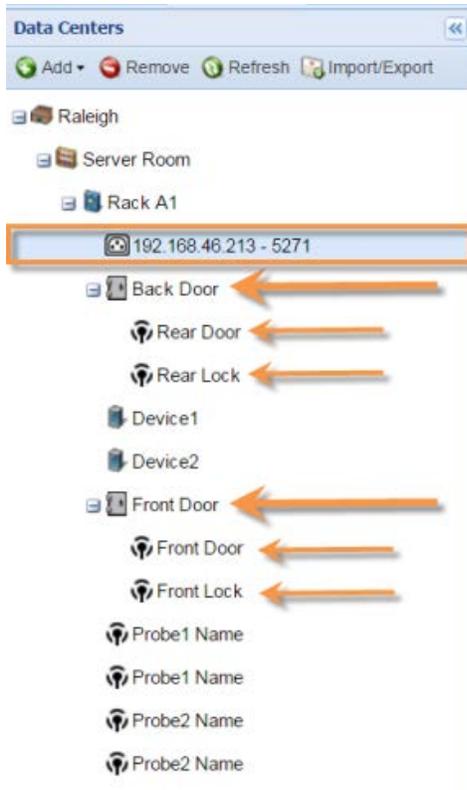
The following features are new or enhanced in Power IQ 5.2.2:

- Electronic Access Control for CPI Doors and Locks
- Enhanced Multi-Vendor Support
- GUI Usability Enhancements

Electronic Access Control for CPI Doors and Locks

Power IQ 5.2.2 provides centralized cabinet-level Electronic Access Control (EAC) for doors and electronic locks connected to supported Chatsworth Products, Inc. (CPI) PDUs.

When you associate a supported CPI PDU that has door sensors in Power IQ, doors and door sensor mappings are automatically created without manual configuration required. Doors are created as siblings to the PDU in the EDM. Contact closure door component sensors and powered dry contact closure electronic lock sensors are created for each door attached to the PDU and mapped appropriately.



Enhanced Multi-Vendor Support

Release 5.2.2 provides enhanced trap support for the following vendors:

- Avocent
- Liebert
- Unite Technologies

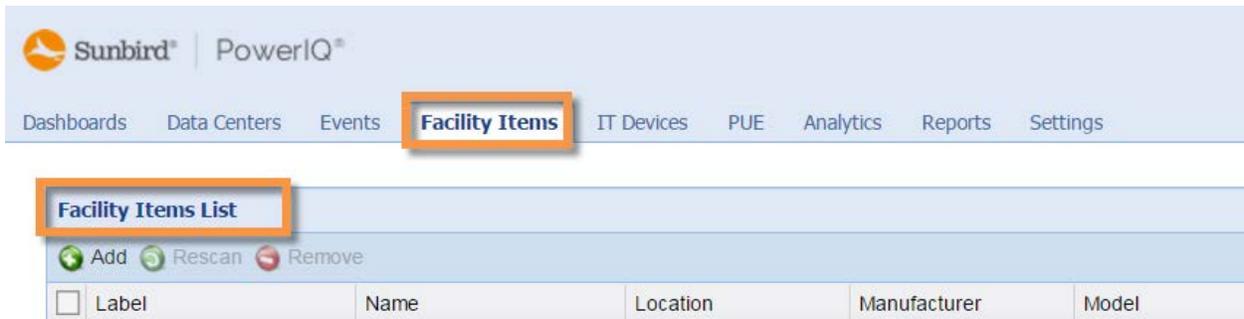
GUI Usability Enhancements

To reflect the wide range of data center items that can be managed through Power IQ, Release 5.2.2 introduces nomenclature updates to the GUI in cleaner, flattened tabs for a more modern look and feel. Power IQ can be used to monitor and manage a variety of items, including rack PDUs, CRACs, floor PDUs, floor UPSs, power panels, standalone meters, and environmental sensor aggregators.

PDU's > Facility Items

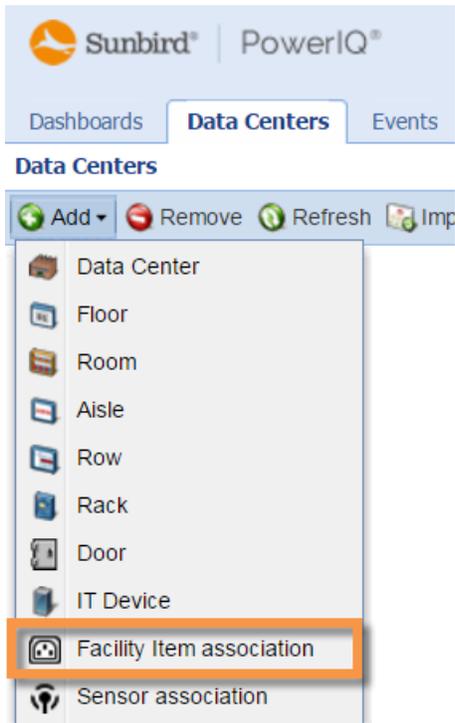
The PDUs tab is now the Facility Items tab. You'll also see the change from PDU to Facility Item reflected in the following places in the UI:

Facility Items List in the Facility Items Tab



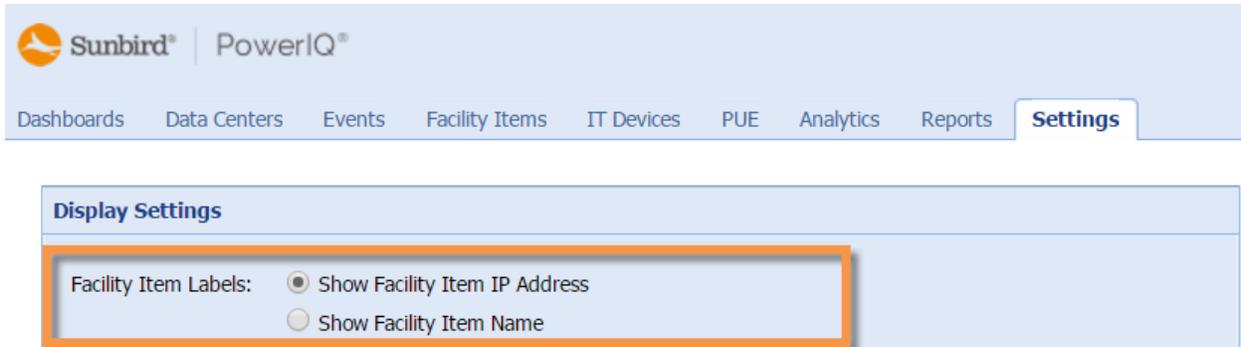
The screenshot shows the Sunbird PowerIQ interface. The top navigation bar includes 'Dashboards', 'Data Centers', 'Events', 'Facility Items' (highlighted with an orange box), 'IT Devices', 'PUE', 'Analytics', 'Reports', and 'Settings'. Below the navigation bar, the 'Facility Items List' section is highlighted with an orange box. It contains three action buttons: 'Add', 'Rescan', and 'Remove'. Below the buttons is a table with the following columns: 'Label', 'Name', 'Location', 'Manufacturer', and 'Model'.

Facility Item Association Option in the Data Centers Tab



The screenshot shows the Sunbird PowerIQ interface with the 'Data Centers' tab selected. The 'Data Centers' section is highlighted. Below the section title, there are four action buttons: 'Add', 'Remove', 'Refresh', and 'Imp'. A dropdown menu is open, showing the following options: 'Data Center', 'Floor', 'Room', 'Aisle', 'Row', 'Rack', 'Door', 'IT Device', 'Facility Item association' (highlighted with an orange box), and 'Sensor association'.

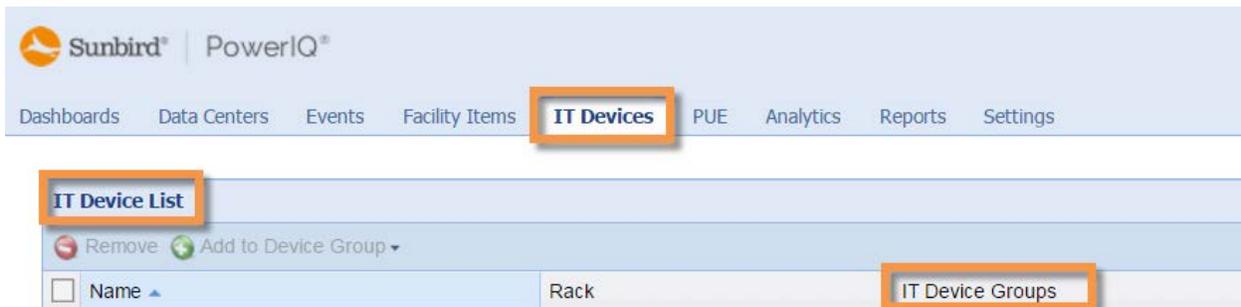
Settings > Application Settings > Display Settings > Facility Item Labels



The screenshot shows the Sunbird PowerIQ interface. The top navigation bar includes 'Dashboards', 'Data Centers', 'Events', 'Facility Items', 'IT Devices', 'PUE', 'Analytics', 'Reports', and 'Settings'. The 'Settings' tab is active. Below the navigation bar, the 'Display Settings' section is highlighted with an orange box. It contains the 'Facility Item Labels' setting, which has two radio button options: 'Show Facility Item IP Address' (selected) and 'Show Facility Item Name'.

Devices > IT Devices

For clarity and consistency, the Devices tab is now the IT Devices tab. You'll also see the change from Device to IT Device in the IT Device list and in the IT Device Groups column.



The screenshot shows the Sunbird PowerIQ interface with the 'IT Devices' tab selected in the navigation bar. Below the navigation bar, the 'IT Device List' section is highlighted with an orange box. It contains a table with columns for 'Name', 'Rack', and 'IT Device Groups'. The 'IT Device Groups' column header is highlighted with an orange box. Above the table, there are 'Remove' and 'Add to Device Group' buttons.

For more information on these and other enhancements, see the Power IQ Online Help or User Guide.

Bug Fixes, Security Updates, and Customer-Reported Items

The following issues are addressed in in Power IQ 5.2.2:

- TLS 1.0 Disabled; Internet Explorer 10 and Below No Longer Supported
- Fixes and Customer-Reported Items Over Release 5.2.1

TLS 1.0 Disabled; Internet Explorer 10 and Below No Longer Supported

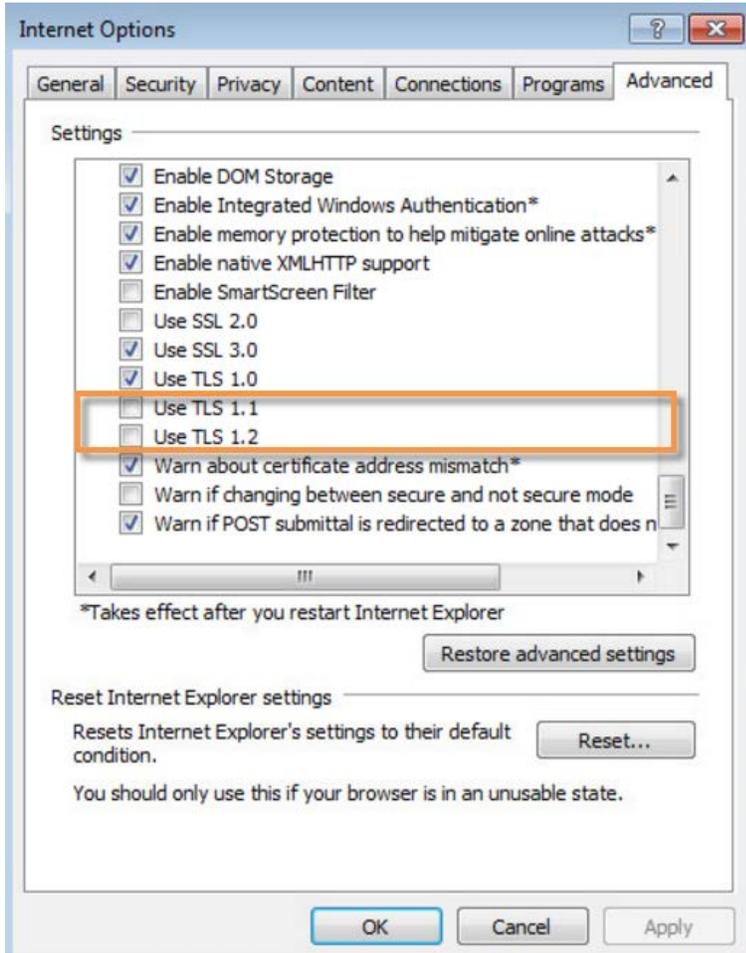
To provide a more secure web experience, TLS 1.0 is disabled in Power IQ 5.2.2.

Transport Layer Security (TLS) is an encryption protocol that provides secure communications over a computer network. TLS 1.0, 1.1 and 1.2 comprise the versions of TLS to date.

Due to this change, Microsoft Internet Explorer Versions 10 and below are no longer supported. If you use Internet Explorer, we strongly recommend that you upgrade to Version 11 to ensure compatibility with TLS 1.1 and TLS 1.2.



Note: To use Power IQ 5.2.2 with previous versions of Internet Explorer, you will need to enable TLS 1.1 and TLS 1.2 under Internet Options > Advanced.



Additional Bug Fixes and Customer-Reported Items Over Release 5.2.1

Power IQ also provides fixes for the following bugs, customer-reported items, and security vulnerabilities over Release 5.2.1:

Ticket Number	Issue Number	Summary
4210	PIQ-8882	APC AP7732 PDU does not display banks/breakers
4005	PIQ-8737	Power IQ reports an error when trying to associate outlets to IT devices via CSV import



3895	PIQ-8668	Update SNMP credential via CSV can fail if the system is low on extra licenses
3745	PIQ-8564	On upgrade to Release 5.2, inlets are selected for event notification
3687	PIQ-8734	Enhanced support for Liebert MPH2 Rack PDUs
3135	PIQ-8454	Added support inlet, circuit breaker, and outlet under/over current traps on Avocent PM3000
3029	PIQ-8480	Add throttler logic to Sinetica plugin to address overwhelming Eagle-I monitoring unit
2927	PIQ-8793	Eagle-I standard plugin - added support for failing power supply trap
N/A	PIQ-9004	Outlet renaming blanks out the outlet name on the PDU when no value is specified
N/A	PIQ-8888	Added support for environmental sensor readings for APC Smart UPS SRT 10000
N/A	PIQ-8859	Security update to remove support for TLSv1

Important Notes

Virtual Machine Requirements*

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

*Based on 30 outlets per PDU

Additional Comments

The table below provides helpful information on issues related to Power IQ Releases 5.2 and above:

Issue	Comments
Door Control	<p>Before configuring door control, ensure that the time on the server is set correctly. Otherwise, it can prevent Power IQ from accurately updating events, sensor states, and providing an accurate audit log.</p>
SHA-1 Certificates in Web Browsers	<p>As of January 1, 2017, Google will no longer support SHA-1 certificates in their browsers. For a period, other browsers, such as Firefox, will continue to allow them but will show them as untrusted connections or similar. They may eventually drop support for them.</p> <p>In Power IQ, we've changed the default certificate that's generated on new installs to use SHA-256. Customers who are currently running SHA-1 certificates won't benefit from this change, as Power IQ doesn't override existing certificates. If you are still using a SHA-1 certificate, you should generate a new one and upload it to Power IQ.</p> <p>Please refer to the following instructions on how to generate a certificate and upload it to Power IQ: http://www.sunbirdcim.com/help/PowerIQ/v522/en/Default.htm#Power_IQ_Only/Security_and_Encryption.htm</p> <p>Related Links</p> <ul style="list-style-type: none"> • Google: https://security.googleblog.com/2015/12/an-update-on-sha-1-certificates-in.html • Firefox: https://blog.mozilla.org/security/2015/10/20/continuing-to-phase-out-sha-1-certificates/
APC UPSs Changes Upon Upgrade	<p>Customers who are currently monitoring APC UPSs as rack PDUs with the standard APC plugin will notice automatic changes upon upgrade:</p> <ul style="list-style-type: none"> • The node type will change to UPS. • This will increase the license count from 1 to 5 for each of these UPSs. • It is possible that the new converted UPS might look like a 3-phase device when it is a single-phase UPS. If this occurs the Floor UPS should be decommissioned (to preserve historical readings) and re-added to PIQ. Upon re-discovery, the Floor UPS will be correctly identified as a single-phase unit with 2-lines/phases.
CPI MIB IPv6 Address	<p>The CPI MIB incorrectly lists the Primary IP address instead of the Alternate IP address for IPv6.</p>
IP Address Filters on Event Notifications	<p>We've enhanced IP address filters on Event Notifications to allow specific IP matches versus any IP starting with a given value. Going forward from Release 5.2, you can enter an asterisk (*) at the end of any IP address to match IPs starting with a value.</p>

On upgrade, we preserve existing suffix wildcard matching by automatically adding the asterisk when needed.

Netbotz
Sensors

Following an upgrade to 5.2, Netbotz sensors may be decommissioned and recreated. If a sensor in the EDM hierarchy is decommissioned, the customer should re-place the desired Netbotz sensor back into the desired location in the EDM.

Raritan PX1
1.5.7
Firmware

There is an issue on in the PX1 1.5.7 firmware that is not likely to be fixed since 1.5.7 is supposed to be the final release of the PX1 firmware. The PX1 is supposed to keep the MIB-II sysName and object instance (i.e., PDU Name) objects in sync. When setting sysName via SNMP (as PIQ does via an csv outlet renaming import), these two values will be out of sync until the SNMP agent is restarted or the PDU is rebooted.

Upgrades for Existing 4.x and 5.x Customers

The upgrade is free for customers with a valid software maintenance agreement. Use the Power IQ 5.2.2 software self-installing upgrade file named `power-iq_5.2.2.x.bin`.

Note: Power IQ Release 4.0.x systems with LDAP configured must have a valid email address for each user account prior to upgrading.

Upgrades for Existing 3.1.0 and 3.2.0 Customers

The upgrade is free for customers with a valid software maintenance agreement. The upgrade will require a new install.

Your current Power IQ configuration and data can be backed up and restored to the new 5.2.2 system. Use the Power IQ software file named `power-iq-5.2.0.x.iso` for a fresh install.

Where to Find the Software Files and Obtain Help

- **Find Software:** <http://support.sunbirdcim.com/>
- **Get Help:** tech@sunbirdcim.com
- **Sign Up for a Maintenance Contract:** Contact your reseller or sales@sunbirdcim.com

Browser Compatibility

- Chrome up to v54
- Mozilla Firefox up to v50
- Internet Explorer v11
- Safari v10.0.1



CC-SG Compatibility

- Release up to and including v6.1: Vendor Agnostic Power Control with Configuration Sync

About

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