Power IQ® Version 5.2

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. We recommend all customers upgrade to this release before the end of the year to benefit from the 2016 leap second event mitigation.

Release Status:

Power IQ Release 5.2 is a General Availability (GA) release.

Power IQ 5.2 Contains the Following Software Enhancements:

- New Cabinet and Containment Security Capability
    - Centralized door control rights and privileges
    - Manual lock and unlock doors with optional auto-relock timer feature
    - Reporting
        - Status
        - Audit
- Inbound Trap Filtering
    - Simply set Power IQ as the trap receiver for your data center infrastructure, such as iPDU, Panels, UPSs, CRACs and other meters
    - Set and review your trap filtering parameters on a single Power IQ screen
    - Filter by device IP address and/or trap OIDs
- Outbound Trap Forwarding
    - Enable forwarding to another system such as an NMS
    - Establish filters for the traps you want to forward to the NMS based on events in Power IQ
- Additional Event Source Options for Email Notifications
- Polling Path Redundancy
- Support for Raritan's v7 Controller with Dual IP Address
- Support for Chatsworth's eConnect Secure Array™ Configuration
- Native Support for APC Rack UPS

- Enhanced Cabinet Failover Simulation Report

  - Provides cabinet capacity and utilization

  - Supports any number of PDUs in a cabinet

  - Supports multiple failover pairs with new "failover pair" tag group

  - Support tracking power source with new "power source" tag group

  - Supports cabinets with any number of PDUs

  - Auto generate and email cabinet capacity reports

    - That are beyond redundancy threshold

    - Most available power capacity

    - Least available power capacity

Power IQ 5.2 Contains the Following Vulnerability Fixes:

- Dirty COW vulnerability
- Disable weak SSH encryption ciphers (Arcfour stream cipher)
- Stored Cross Site Scripting
- 2016 leap second event mitigation

Power IQ 5.2 Contains the Following Fixes for Field Reported Items:

Key	Summary
PIQ-8461	Updated Graceful Shutdown to work with latest security updates on Windows machines
PIQ-8270	Health map Inspector now works for APC UPS
PIQ-8183	Display upgrade status message
PIQ-8203	Analytics display first day on seven-day chart
PIQ-8017	Power IQ DNS settings can't be saved on Hyper-V
PIQ-7791	Orphan sensor issue with unprintable chars in the name
PIQ-7673	Support for new version of ServerTech Sentry CDU 8.0d
PIQ-7551	Netbotz 450 not displaying temp value and showing other sensors as decommissioned

PIQ-7524	Eaton/Aphel three-phase inline not recording
PIQ-7518	Discrepancy in number of PDUs with no outlets mapped - orphaned systems & EDM export file
PIQ-7344	APC AP8453 and AP8450EU3 PDUs display an application error when added due to lack of outlet switching
PIQ-7140	Set remote storage on Amazon S3 and it does not work for certain regions
PIQ-7076	UPS Runtime remaining field does not handle -1 value correctly
PIQ-6991	PIQ Active Events Filter Fix
PIQ-6869	Missing inlet readings for PX2 inline meter due to PX2 model name format change
PIQ-6583	Add support for collecting inlet amp capacity value
PIQ-6302	Change Power IQ GUI to use the new rack unit position value on Raritan asset strips
PIQ-6146	Allow a custom dynamic plugin to have only traps - no sensor mappings
PIQ-5944	Errors during bulk config
PIQ-5861	Event for Asset Tag disconnect displays index instead of rack unit
DCT-8025	Remote storage by FTP does not work if port is 2121

The Following is a List of Comments on Release 5.2:

- 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.
- As of January 1, 2017, Google will no longer support SHA-1 certificates in their browsers. For a period of time, other browsers such as Firefox will continue to allow them but show them as untrusted connection or similar. They may eventually drop support for them. In Power IQ, we've changed the default certificate that's generated on new installs to use SHA-256. Customers that 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. Please refer to the following instructions on how to generate a certificate and upload

it to Power IQ:
http://www.sunbirddcim.com/help/PowerIQ/v520/en/Default.htm#Power_IQ_Only/Security_and_Encryption.htm

- o Related Links:
- o 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/
- Customer that are currently monitoring APC UPSs as rack PDUs with the standard APC plugin with notice an automatic change upon upgrade.
  - o The node type will change to UPS.
  - o This will increase the license count from 1 to 5 for each of these UPSs
  - o 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 incorrectly lists the Primary IP address instead of the Alternate IP address for Ipv6.
- We've enhanced IP address filters on Event Notifications to allow specific IP matches versus any IP starting with a given value. Going forward, you can enter an asterisk (*) at the end of any IP address to match IPs starting with a value. On upgrade, we preserve existing suffix wildcard matching by automatically adding the asterisk when needed.
- Following an upgrade to 5.2, Netbotz sensors may be decommissioned and recreated. If a sensor in the EDM hierarchy is decommissioned, the customer will have to re-place the desired Netbotz sensor back into the desired location in the EDM.
- There is an issue on in the PX1 1.5.7 firmware which is not likely ever 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.

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.
- 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

Power IQ Customers with Release 4.0 or Later:

The upgrade is free for customers with a valid software maintenance agreement. Use the Power IQ software self-installing upgrade file named power-iq-5.2.0.x.bin.

Power IQ Customers with a Release Prior to 4.0

The upgrade is free for customers with a valid software maintenance agreement. The upgrade will require a new install due to the upgrade of the OS. Your current Power IQ configuration and data can be backed up and restored to the new 5.2 system. Use the Power IQ 5.2 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.sunbirddcim.com/
- For Help: tech@sunbirddcim.com
- For Maintenance: Contact your reseller or sales@sunbirddcim.com to buy a maintenance contract

Browser Compatibility:

- Chrome up to V54
- Mozilla Firefox up to v50
- Internet Explorer v9, v10 and v11
- Safari v10.0.1

CC-SG Compatibility:

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

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