

Power IQ® DCIM Monitoring Version 9.3.0

*****Important Notice: This release does not support TLS 1.2 by default. You might have issues if you use systems in conjunction with Power IQ that depend on that protocol. CC-SG and some Load Balancers depend on this protocol. If you require TLS 1.2 support, please see [this article](#) before upgrading*****

These Release Notes contain important information regarding the release of this product so please read them carefully.

Applicability

This software release is applicable to Power IQ installations on Nutanix, VMware, Hyper-V, Linux KVM, AWS, Dell R640/650/740/840 and Raritan E2 hardware.

Back Up Your System Before You Upgrade!

Ensure redundancy, recover from human error, and safeguard your Power IQ configuration and data with frequent backups!

Before you upgrade, we **strongly recommend that you generate a backup of your Power IQ system configuration** and save it to another device, such as your hard drive. We also strongly recommend that you set up remote storage for backup files to automatically push all daily backups to a remote storage location. For more information, see [Data Backups](#) in the Power IQ online help.

Upgrade Paths

1. If you are on 8.0.x, 8.1.x, 9.0.x, 9.1.x, or 9.2.x; you can upgrade with the bin file via the GUI
2. If you are on 7.2.x you can upgrade via the .iso
 - Create a new 9.3.0 system via iso installation
 - Create a backup of your 7.2.x system and download it.
 - Restore the 7.2.x back-up to the 9.3.0 system.
 - Congratulations! You have a fully supported 9.2.1 system and can turn off the 7.2.x box.

Note: When upgrading a Power IQ system that is integrated with dcTrack, disable the integration in dcTrack before beginning the upgrade, then re-enable the integrations after the upgrade.

Security Enhancements

This upgrade addresses several security vulnerabilities identified by the National Institute of Standards and Technology (NIST). For additional information on the specific issues addressed by this fix please refer to the following articles on the NIST website.

- <https://nvd.nist.gov/vuln/detail/CVE-2025-22247>
- <https://nvd.nist.gov/vuln/detail/CVE-2024-45490>
- <https://nvd.nist.gov/vuln/detail/CVE-2024-45491>
- <https://nvd.nist.gov/vuln/detail/CVE-2024-45492>

Additional Security Enhancements

- Local User Password Security Improvements (See New Features and Enhancements section)
- Added Content Security Policy header
- Removed diffie-hellman-group1-sha1 from the enabled key exchange algorithms for SSH
- Added Strict-Transport-Security headers to Floormaps APIs responses

Compliance with Security Technical Implementation Guide: To pass as many of the rules as possible that are part of the DISA STIG for Red Hat Enterprise Linux 8 V2R2, the underlying Linux operating system has been updated to a newer version of 8.10, many components have been updated to current versions, and additional hardening steps are applied during both ISO install and upgrade to release 9.3.0.

Removal of support for TLS 1.2: As per the deprecation notice provided in the Power IQ 9.1.0 release notes, Sunbird has removed support for TLS 1.2 to keep the solution as secure as possible. Only key ciphers that support "Forward Secrecy" are enabled. This follows the recommended best practice from OWASP and other security organizations. For customers that have internal applications that integrate with dcTrack through our HTTPS public APIs, they should investigate if this will introduce complexities that cannot be easily mitigated. If so, please reach out to Sunbird support and Sunbird will work with you to ease the transition.

Removal of support for Digital Signature Algorithm (DSA) HTTPS certificates: NIST has deprecated the use of this algorithm because it is no longer considered secure. If a customer is currently using such a certificate, the appliance will continue to use it for securing HTTPS traffic. However, users can no longer upload such certificates via the web UI.

New Features and Enhancements

The following features are new or enhanced in Power IQ 9.3:

Nutanix Is a Supported Hypervisor

Power IQ 9.3 supports a Nutanix native install with Nutanix Guest Tools (NGT) enabled. For more information on NGT capabilities, see [this Nutanix KB article](#).

Temperature Report Enhancements

The temperature report has been enhanced to include humidity.

Additional Data Points for UPS and Busway Monitoring

The following additional data points have been added to support busway monitoring:

- Data Model changes to the raw readings and rollup tables for inlets and circuits include new Frequency, Line-to-Line Voltage and Line-to-Neutral Voltage columns, as well as columns for the minimum/maximum for each. Support for collecting these values using buffered data retrieval was also added.
- The Measurements API was updated to support the new readings.
- The new voltage and frequency readings display in the Elements section on the Sites tab
- Default voltages are not used with VLL and VLN to approximate Power off VLL and VLN values
- The apparent power computation listener no longer estimates missing inlet or outlet apparent power (or active power or power factor).

Pause Event Notifications

This feature allows users with the Event Manager role to pause selected email and http push event notifications to reduce noise created while maintenance or other scheduled work is being performed.

Push Notifications with Oauth2

Power IQ 9.3 supports Oauth2 authentication for additional security for event notifications

Local User Password improvements

Power IQ 9.3 supports password lengths up to 64 characters and stores passwords using a stronger hashing mechanism [per NIST standards](#) for additional security. If you have a legacy hashed password you can seamlessly login using your existing password.

Backup File Name Includes Application Time

In Power IQ 9.3, the timestamp in the file name for database backups is now based on application time, not system time. The format is PowerIQ-backup-<product_version>-<yyyymmdd><hhmmss>_<offset>.dat

Rittal Standard Plugin: CMCIII Door Lock Support

The Rittal Standard Plugin enables you to control, discover and poll the state of door lock hardware attached to Rittal CMCIII devices.

Dynamic Plugin Enhancements for FPDU Integration with dcTrack

Power IQ 9.3 enables you to specify panel layout (odd-even or sequential) for dynamic plugins (along with circuit position) A drop-down on the configuration page allows you to choose between Unknown, Odd-Even or Sequential

Bug Fixes and Customer-Reported Items

Release 9.3 provides fixes for the following bugs, customer-reported items, and/or security vulnerabilities:

Issue Number	JIRA Number	Summary
2317	PIQ-7576	Floormaps uses excessive RAM when there are 70,000 active events
48476	PIQ-22721	Add additional security headers, including CSP.
51384	DCT-56437	Changed backup filename to include the time zone (application time zone)
52073	PIQ-23080	Updated documentation to state that "The '\$' symbol cannot be used in SNMPv3 passphrases.". Using that symbol can cause traps to be dropped.
56759	PIQ-23839	The phase labels setting in Language and Locale Settings is not reflected on the Inlets sensors page nor failover reports.
57805	PIQ-24081	Clarified documentation on how to set system IP Address when running Power IQ on AWS.
66552	PIQ-25821	Health Map Widget may not load if there are large number of active events.
67136	PIQ-25873	After removing inlet thresholds for a PDU, the Inlet bar chart doesn't update threshold regions correctly.
67206	PIQ-25719	Chatsworth PDU errors after firmware update due to a firmware issue. CPI to provide fix.
67871	PIQ-25903	Improved user guide documentation for Raritan cascading PDU daisy chain modification scenarios
68199	PIQ-25863	The custom field values on email notifications are blank.
68271	PIQ-25876	Warning symbols missing from Failover reports.
68418	PIQ-25882	Enhanced Bulk Firmware Update documentation
68955	PIQ-25997	Removed diffie-hellman-group1-sha1 from the enabled key exchange algorithms for SSH
69196	DCT-71063	Power Trend Chart in dcTrack- Residual Current trendline produces an error in the details grid under specific conditions. Issue was fixed in Power IQ.
69269	PIQ-26096	Events date filter in Web GUI doesn't handle different time zones properly.
69448	PIQ-26135	X-Frame-Options header is missing or blank. The fix was to replace it with a Content Security Policy (CSP) as per OWASP recommendations.
69448	PIQ-26133	Added Strict-Transport-Security headers to Floormaps APIs responses
69521	PIQ-26411	Upgrade page and Data Retention Configuration settings don't display properly on smaller screen sizes if the locale is set to German

69827	PIQ-26150	Archive data isn't chartable if there are null values.
69946	PIQ-26172	Clarified Failover Report documentation to clearly state only that only single inlet PDUs are supported.
70391 69142	PIQ-26309	Floormaps does not work if the certificate is not from a known root CA
70455	PIQ-26252	Updated API documentation to clarify filtering on severity field
70572	DCT-72169	Improve API performance for outlets resource.
70653	PIQ-26795	Custom logo is missing from reports
70685	PIQ-26548	Event Notification IP Address filters not working exactly as per documentation
70977	DCT-74443	Power IQ sends updates to dcTrack for CPI eConnect PDU, even when no change occurred.
71161	PIQ-26509	Adding a facility item with incorrect SNMPv3 credentials can cause issues with device discovery once the credentials are corrected.
71432	PIQ-26369	Correct typo in Quick Start Guide (QSG)
71588	PIQ-26398	Under certain configurations, Power IQ does not record temperature sensor readings for Raritan PDUs running firmware 4.3.0+
71617	PIQ-26403	Update to the latest version of open-vm-tools
72048	PIQ-26448	Updated documentation to show new location for global temperature unit settings.
72582	DCT-73952	The "config" user account is not being unlocked until the next reboot
72920	PIQ-26555	Update documentation for VM requirements and SCSI controller configuration
73154	PIQ-26719	Power IQ now supports the temperature unit setting that was introduced in CPI firmware 4.13.1100/5.13.1100. User's can now set the CPI temperature unit to Celsius on the devices themselves and the correct value will be displayed in Power IQ.
73173	PIQ-26644	When an LDAP user is deactivated, there is no ability to add the same user again.
73564	PIQ-26678	Invalid negative sensor reading caused Hourly Rollups to fail
73865	PIQ-26736	LDAP Sync fails to add users to new groups if they are already in other groups.
73876	PIQ-26701	Events are not loading when PIQ language set to French
73994	PIQ-26710	Updating DNS settings in the console does not work as expected
74232	PIQ-26748	Enhance documentation for inletVoltageReadingUnavailable event

Deprecation Notices

- **TLS 1.2:** TLS 1.2 was deprecated in Power IQ 9.1 and removed in Power IQ 9.2.
- Power IQ's use of inlet pole current and voltage readings to estimate apparent/active power/power factor is deprecated in Power IQ 9.3. In addition to changes to the poller and certain standard plugins, this release also remove your ability to define global and PDU-specific voltage values in the UI. In Power IQ 9.4.0, all the relevant user-defined voltage fields will be removed in the database.
- Power IQ's legacy firmware/bulk configuration tool had its read-only functionality restored in Power IQ 9.2, but will be removed in 9.3.5

Important Notes

Note: The VM Requirements have been updated for Power IQ 9.1+. These recommended starting system specifications assume the following:

- You are using SNMP v1/v2c
- You are using Solid State Drives (SSD)
- You are using Rack PDUs with 36 outlets
- You are using the default data retention settings
- System resources are dedicated to Power IQ
- All rack PDUs are reachable by Power IQ

Your actual required specifications required will vary based upon your situation. The following may increase the amount of resources required:

- Polling mode on PDUs (SNMP v3 would require slightly more headroom with CPUs)
- Heavy API Use and/or ODBC queries
- Large number of concurrent users
- Slow network
- Slow responding rack PDUs
- Non-default data retention settings
- Rack PDUs with more than 36 outlets
- Integration with other systems
- Thresholding enabled
- Large number of unreachable PDUs that are not in maintenance mode

Virtual Machine Requirements for Outlet Metered Rack PDUs with up to 36 Outlets, Polled at 5-Minute Intervals.

Minimum Configuration (Number of PDUs)	RAM (GB)	CPU (Cores)	Datastore (GB)
Up to 100	24	8	600
101 to 1000	32	8	600
1001 to 2000	40	12	600
2001 to 3000	48	16	600
3001 to 4000	72	16	600

4001 to 5000	96	20	600
5001 to 6000	120	24	600
6001 to 7000	128	32	600

Virtual Machine Requirements for Inlet-Only Metered Rack PDUs Polled at 5-Minute Intervals.

Minimum Configuration (Number of PDUs)	RAM (GB)	CPU (Cores)	Datastore (GB)
Up to 100	20	6	600
101 to 1000	24	8	600
1001 to 2000	28	8	600
2001 to 3000	32	8	600
3001 to 4000	36	10	600
4001 to 5000	40	10	600
5001 to 6000	44	12	600
6001 to 7000	48	12	600

Note: If you are using the data archival feature or have a concern with the minimum amount of 600GB disk space, consult tech support for a more precise calculation of the required disk space

Note: Performance can be improved significantly by using Solid State Drives (SSD) in place of mechanical hard drives.

Additional Comments

The table below provides helpful information on issues related to Power IQ Releases 8.0 and above:

Issue	Comments
Chatsworth MCM3	Due to a defect in the Chatsworth MCM3 firmware, Bulk Configuration Firmware updates may fail.
Estimated Power Factor Value When None Was Collected from the PDU (Dynamic Plugin)	Power IQ does not estimate inlet or outlet power factor from apparent power and active power. However, for dynamic plugins, Power IQ intentionally adds an inlet/outlet/circuit power factor meter even if there is no reading (if Power IQ has active power and apparent power readings)
SNMPv3 passphrases	The '\$' symbol cannot be used in SNMPv3 passphrases.
Rittal CMCIII Door Sensor Status	The sensor status can show an incorrect state because the handle for the Rittal doesn't send traps. Since the door handle for the Rittal CMCIII does not send traps, you need to rescan the

	PDU to get state changes for the door handle. This can cause a desynch between what is real and what is shown to the user in the UI.
CPI Firmware	Chatsworth Products 4.3.1108/ 5.3.1108 firmware has an incompatibility that will prevent Power IQ from polling MCM3/MCM4 hardware if they don't have outlet metering. Chatsworth Products will release a updated version of firmware to fix the issue.
CPI Firmware Upgrade	When performing a firmware upgrade on a CPI Secure Array, which consists of more than one PDU in a chain, Sunbird doesn't recommend enabling the Maintenance Mode feature for those PDUs. After the Primary PDU is upgraded, it will upgrade each downstream PDU and a trap will be sent when each one is done. If Maintenance Mode is enabled, that trap will be dropped instead of being converted to an Event.
Dynamic Plugin	Temperature and Humidity multipliers should be set using the external_sensor Data Element
	There is an issue in Raritan firmware 4.1.x or 4.2.x that prevents Facility Item based door access authorization rules that end later than 1/18/2038 from being written to the PDU. The default "All Users" access schedule has an end date of 6/19/2070, so it is affected.
	Since the rules are synced daily, this can affect user's ability to access the rack.
Legrand Door Locks	Legrand corrected this issue in firmware 4.3.0.
	If you are using 'Facility Item' Based Authorization and the affected firmware, please either: <ul style="list-style-type: none"> • Upgrade the PDUs to firmware 4.3.0+ -- or -- • Change the end date of any door access rules to 1/18/2038 or earlier.
	'Power IQ' based authorization is not affected.
CPI Firmware	Chatsworth Product's 4.13.1100 and 5.3.1100 firmware introduced a breaking change that prevents Power IQ from being able to perform firmware upgrades to downstream PDUs in a CPI Secure Array configuration. Users should not use Power IQ to perform upgrades to that firmware version or higher if there are 2 or more PDUs in a Secure Array chain.
Chatsworth Card access attempt fails with SNMP_ERROR_NOT_WRITEABLE error	At least five seconds must elapse between card access attempts on CPI door locks. If you make another card access attempt on a single lock too soon after the lock has re-locked, the second card access attempt fails with the following error: SNMP_ERROR_NOT_WRITEABLE.
APC Apparent Power	Power IQ previously would have estimated the Apparent Power value for APC PDUs if that value wasn't reported by the PDU. In 9.1.0 and above, Power IQ will no longer estimate this value. Instead, no apparent power value will show if the PDU doesn't report it directly.
APC 10k Series PDU	APC 10k Series PDUs need to be on firmware 2.0.6 or higher. Otherwise, users could see validation errors on outlet power control actions.
APC 10k Series PDU	Due to a firmware issue, environmental sensor traps are not yet supported for APC 10k Series PDUs.
APC 10k Series PDU	Due to issues with APC 10k PDU, Power IQ does not collect breaker status in R9.1.x.
Load Shift	If the issue that caused a load shift event is not quickly resolved, it could affect the long-term running average and data during the duration window. This could prevent a subsequent event from being detected until the data normalizes.

Server Technology	To update from firmware v8.0y to a future v8.1a+ firmware version, Server Technology customers will need to first update their v8.0y- PDUs to v8.0z, and then from v8.0z to v8.1a+. To avoid the need for a stepped update, customers should update their PDUs as soon as possible.
Serial Console	Using the "CTRL-N" key sequence in Chrome to set routes in the VMWare console opens a new browser window instead of the "Network Route Entry" screen. Use the Firefox browser as a work around or ssh connection.
TANlock	Power IQ only supports TANlock devices configured for SNMPv2. Support for SNMPv3 will be considered once it's fully supported on the TANlock device.
TANlock	The write community string can't also be used for read operations on the TANlock. As such, both the write and read community string values must be set to the value on the TANlock to work with Power IQ.
TANlock	The TANlock units come from the factory with SNMP disabled. After enabling, you will need to reboot the device.
TANlock	To enable SNMP traps on the TANlock, you have to go to Settings->Event Monitoring in the TANlock UI. You first have to enable snmptraps and then after rebooting you can specify a trap destination. Must also reboot after specifying the trap destination for the change to take effect.
STI Sentry 3	PDU rescans and bulk configuration runs may timeout for STI Sentry3 CDUs if executed immediately after a PDU reset.
CPI Firmware	Due to an issue in the firmware, users can only upload CPI Firmware 4.13.883 or 5.3.883 to Power IQ. It will not accept both at the same time.
CPI Firmware	When upgrading CPI MCM3 PDUs to firmware 4.13.883, Power IQ will report that the firmware upgrade fails even though it may actually succeed. This is due to an error in the firmware where it is reporting "Version":"5.3.883" to Power IQ.
BCM2	<p>The Following are Comments Previously Noted</p> <p>When restoring a BCM2 from a backup, users should always use the backup from the proxy-0 unit and only restore it to the proxy-0 device.</p> <p>In the console, there is an issue saving manually defined IPv6 routes.</p>
IPv6 Routes	<p>After adding a IPv6 route via the dialog box in IPv6 routes, two 'Accept' buttons are visible on the main IPv6 route. One is a residual button from the dialog window. To successfully save the change, you must use the Tab key to navigate to the lower left 'Accept' button and hit <Enter>.</p> <p>This will be fixed in the next release.</p>
Starline Meters	<p>In firmware version 4.22, Starline added a new requirement for security purposes: "read and write community strings must be different"</p> <p>This is an issue because Power IQ only supports the configuration of a single community string that it attempts to use for both read and write purposes. Unlike other vendors, Starline doesn't permit a write community string to be used for SNMP get (.ie., read) requests.</p>

If running firmware 4.22 or greater, users will need to specify the read-only community string in Power IQ which will allow polling/data collection to work but set operations will not be supported. By doing this the end user won't be able to set the following through the PIQ UI:

- meter name
- meter contact
- meter location
- outlet names

Alternately, user's can use SNMPv3 to manage these meters. SNMPv3 doesn't use community strings and therefore won't encounter this issue.

Linking Raritan PDUs

Raritan supports a number of daisy chained PDU configurations.

They support cascading which involves using a port forwarded or bridged configuration (ie, USB or ethernet connected) to enable a chain of PDUs to share a single physical network connection.

PDU feature linking involves logically grouping PDUs together such that the primary PDU in the linked chain hosts all the management data for all downstream PDUs.

In addition, Raritan supports PDU feature linking for PDUs which are physically connected in a cascading configuration.

Power IQ support this later configuration provided that ALL downstream PDU's in the physical cascade are logically linked to the primary PDU. Power IQ does NOT support such a configuration when only a subset of the PDUs in the physical chain are logically linked. We refer to this latter configuration as a "hybrid" configuration and we do not officially support it.

Door Locks

On Raritan PDU's, the timezone offset displayed on the PDU for a door access rule during daylight savings is off by an hour. This is a display issue on the PDU only and the door access schedules as set in Power IQ do work correctly.

Door Locks

If the timezone is changed on the PDU, and door locks rules authorized by that PDU will continue to apply to the old timezone. Power IQ does a daily door lock authorization rule refresh which will correct this at the next daily synchronization.

Door Locks

Power IQ does not currently support door locks on Raritan Feature Linked PDU chains.

BCM2 State Change Sensor

Due to a firmware issue, the Raritan BCM2 will not send sensor state change traps in firmware R3.6.0. This is fixed in Raritan's R3.6.30 firmware release.

CPI Firmware Upgrade

Due to a firmware issue, Power IQ is unable to successfully push CPI Firmware 5.3.785, 5.3.825 or 5.3.926 out to the CPI Secure Array with MCM4 hardware.

SNMP diagnostics

Due to a firmware issue, running Power IQ's SNMP diagnostics against a CPI PDU running the 5.3.825 firmware, will result in a snmpwalk command that will never complete and will continue to query the target PDU. To avoid this issue, customers should not run PIQ's SNMP diagnostics against a CPI PDU running the 5.3.825 firmware. For assistance with this issue, contact Sunbird Technical Support at <mailto:tech@sunbirddcim.com> or via the [Sunbird Support Portal](#).

CPI Firmware Display

When performing a firmware update, CPI Firmware 4.12.757 and 5.2.757 are shown in Power IQ as 2.0.757. This is due to an incorrect value in the firmware file itself. This issue will prevent Power IQ from being able to push those versions out to the PDUs. CPI will fix it in newer firmware versions.

CPI Outlet State Change Timeout	Power IQ has changed the outlet state change timeout from 20 seconds to 300 seconds for CPI PDUs. Power IQ now waits 300 seconds for a CPI outlet to change state from Off to On
SSL Certificates	SSL Certificates with too small of a key won't be restored via a database restore. Instead, the default Power IQ generated certificate will be used.
Feature Linking Support	When using the Feature Linking feature on Raritan and Server Technology PDUs, you may need to adjust the poll rate if you observe gaps in the data.
Bulk configuration feature to change from SNMPv2 operation to SNMPv3	When using the bulk configuration feature to change from SNMPv2 operation to SNMPv3 operation for a PDU managed by Power IQ, the operation may fail a small percentage of the time. This is caused by a delay in the PDU response. If this happens, re-running the plan should successfully update the SNMP operation mode."
Syslog	System log messages used to have "Power IQ" for the program name. The space caused an error in some receiving systems. In R7.1.0, the space was removed to comply with the specification.
Current Thresholding	The thresholding engine uses "greater than or equal to" and "less than or equal to" when doing comparisons. If you sent a lower current threshold to 0, you will still get a lower threshold alert when that value is reported as 0. This is typically the case for a new installed PDU that's not yet been brought into operation. If this PDU is not yet in operation, you can place the PDU into maintenance mode to prevent the alert."
LDAP/AD	After upgrading, users should check their search criteria after upgrading when doing find user searches.
User Management	Administrators can now deactivate users in Power IQ. Even if a user is deactivated, their email address can't be reused in Power IQ.
Chrome	Chrome's Built In Dark Mode should not be used with Power IQ as it can affect the theme.
Floormaps	After a new floormap is uploaded, user's must manually refresh the page in order to select a rack. This only applies to the first time a new floormap is uploaded.
Netbotz Plugin	Power IQ only supports trap from sensors attached directly to the PDU. Traps from wireless sensors are not currently supported.
Bulk configuration of CPI eConnect PDUs	<p>Users can bulk update the firmware, passwords, IP addresses, subnet masks, gateways, SNMP settings, and trap destinations of one or many PDUs configured with IP v4 addresses. This includes PDUs in the Secure Array™ configuration and individually networked.</p> <ul style="list-style-type: none"> • The Bulk Configuration features are only supported on CPI PDU's running firmware 4.4.240 and above. • Chatsworth Products PDU's must be configured in IPv4 only mode. • In order for the Bulk Configuration and Firmware update features to work on Chatsworth Products PDU's, all PDUs in the Secure Array™ must have the same PDU Administrative Credentials as those provided to Power IQ for the Secure Array™. This account must be set on each PDU using the Primary PDU and also on the Alternate PDU. • The CPI Secure Array™ must be configured in accordance with the CPI User's Manual. In general, all PDU's in the chain should be the same model version. If they are different, consult the PDU user's guide for guidance. • Configuring Chatsworth Products PDU's for IPv6 via Power IQ is not supported by CPI at this time. • If the primary Chatsworth Products PDU loses connectivity to the Secure Array™ while updating the connected PDU's, it will not send a trap indicating that there was a

	<p>failure. The user should use the firmware field on the facilities items tab to confirm that all targeted PDU's were successfully updated.</p> <ul style="list-style-type: none"> • After running a firmware update on a Chatsworth Products PDU Secure Array™, you must wait until the Primary PDU has successfully updated the firmware on the rest of the PDU's in the array before running another Bulk Configuration plan on that Secure Array™. The user should use the firmware field on the facilities items tab to confirm that all targeted PDU's were successfully updated. If the PDUs were placed into maintenance mode for the upgrade, they should be returned to service afterwards to ensure traps are processed. • The Alternate PDU should be added to Power IQ using the IP Address of the master PDU. Otherwise, issues with bulk configuration can occur.
Bulk configuration of CPI PDUs with MCM4 hardware controllers.	Power IQ bulk configuration firmware upgrades to CPI firmware version 5.3.825 will fail verification for CPI PDUs with MCM4 hardware controllers due to an incorrect build stamp caused by CPI firmware
Server Technology IP Address Changes	After changing the IP address on a Server Technology PDU, it may take up to a minute for the SNMP agent to come back online again following the change. This is a known issue.
Updating Server Technology PDU Firmware	When updating the v7.0 firmware for some Server Technology PDUs, the PDUs may lock up. This is a known issue.
Server Technology v7 PDU Firmware Upgrade Issue	There is a low probability that upgrading the firmware on a Server Technology CDU1 PDU using an ME network card and running v7 firmware may cause the PDUs to lose communication after the firmware upgrade. If this occurs, the bulk configuration report in Power IQ will show the following message: "Firmware update failed. Reason: Connectivity check timed out." To restore communication, the PDUs must undergo a hard reboot (power off/on).
Updating SysLocation and SysContact Information for Server Technology PDUs	The SysLocation and SysContact for a master Server Technology PDU can updated via CSV import using either a record for the master PDU or PDUs linked to the master PDU. If the SysLocation and SysContact information for the master and linked PDUs do not match, the update may fail, or the information may be incorrectly overwritten. To address this issue, the SysLocation and SysContact for the master PDUs and its linked PDUs should match.
Enabling SNMPv3 on Server Technology Sentry Switched PDUs	If Power IQ is unable to communicate with a Server Technology Sentry3 PDUs using SNMPv3, try enabled SNMPv2 on the PDU as well. While this shouldn't be required, we've observed that it many resolve the issue.
Server Technology PDU Firmware Version and X.509 Certificate Issues	<p>On Server Technology CDU1 PDUs running v7 firmware, Power IQ will generate an "Admin Credentials Invalid" event and display the PDU in a Warning state for the following reasons:</p> <ul style="list-style-type: none"> • PDU Administrative Credentials are added to Power IQ but don't match those of a user account on the PDU • PDU is running pre-v7.0m firmware • PDU has an older X.509 certificate that was generated with an older encryption protocol that is no longer considered secure.

Before upgrading to Power IQ R6.2.0, Sunbird recommends upgrading all Server Technology CDU1 PDUs to v7.0m firmware or greater and generating a new certificate if the PDU has an older, incompatible X.509 certificate.

Raritan First SmartLock Solution (with EMKA Lock and Without Integrated Card Reader) Automatic Relock Timer Events	Customers who are using the Raritan First SmartLock solution and have enabled the automatic relock timer in Power IQ may experience an issue with clearing contact sensor events in Power IQ. If the initial relock attempt fails, a subsequent successful relock attempt will fail to clear the sensor event Power IQ. This will cause the PDU to continue to display in the Critical health state, even if the door is locked. If this occurs, manually clear the event in the Events tab in Power IQ.
Raritan SmartLock Enhance/Advance Incompatibility with Data Buffered Mode	The Raritan SmartLock Enhance and Advance door lock solutions that use the DX2-DH2C2 controller report an incorrect state for the SmartLock Powered Dry Contact sensor when the PDU is running in data buffered mode. This issue exists in the PDU's 3.4.0 firmware. As such, the solution should not be used in data buffered mode until Raritan corrects the issue in a future firmware release. PDUs with older door controllers, such as the DX-D2C6 and DX-PD2C5 models, can be used in either polling or data buffered mode.
Card Reader Traps and Maintenance Mode	Power IQ does not process traps for facility items in maintenance mode. As a result, you may be unable to unlock the door on a rack if the controlling PDU is in maintenance mode. To avoid this known issue, you should not use maintenance mode and card reader access simultaneously.
Door Control	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.
CPI MIB IPv6 Address	The CPI MIB incorrectly lists the Primary IP address instead of the Alternate IP address for IPv6.
IP Address Filters on Event Notifications	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. 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 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.
Chrome/VMWare Console: IPv4 Network Routes Setup	Using the "CTRL-N" key sequence in Chrome to set routes in the VMWare console opens a new browser window instead of the "Network Route Entry" screen. Use the Firefox browser as a work around or ssh connection.

Where to Find the Software Files and Obtain Help

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

dcTrack® Compatibility

Power IQ 9.3.0 is compatible with dcTrack versions 9.3.0, 9.2.4, 9.2.3, 9.2.2, 9.1.2.

Browser Compatibility

- Chrome Version 142.0.7444.60 (Official Build) (64-bit)
- Edge Version 142.0.3595.53 (Official build) (64-bit)
- Firefox Version 144.0.2 (64-bit)
- Safari Version 16.5 (18615.2.9.11.4)

CC-SG Compatibility

- CC-SG up to and including 11.5.
- A patch is required to enable TLS1.2 on Power IQ using CC-SG v11.5.0 and earlier.

About Sunbird

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