

# SPM 6.2.2 Release Notes

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## December – 2017

### New Features/Enhancements

- Upgrade to Ubuntu 16.04
- Upgrade GUI, PHP, database, and various libraries
- Support for Enlogic devices
- Support for IBM DPI devices
- Support for Panduit PVIQ EM devices
- Improvements to Starline Busway support

### Bug Fixes

- 3565 Fix HTTP disabling
- 3617 Fix missing default permissions to outlets
- 3624 Fix current for Liebert devices
- 3672 SPM login with special characters
- 3674 Not able to update or delete CDUs' LDAP user groups from SPM
- 3677 Fix report print button

### Upgrade Path

- Users upgrading to 6.2.2 must be on 6.1.0 or higher.

# SPM 6.1.3 Release Notes

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## October – 2017

### New Features/Enhancements

- Mass configure power source from input cords
- Hub and Node - Support bulk import on the hub to configure parent of node devices

### Bug Fixes

- 3561 Hub and Node - Adding new CDU from node doesn't show sensors in hub
- 3684 Power source change at cabinet configuration does not push from hub to node
- 3686 Apple users have line ending problems pushing banners to CDUs
- 3687 Hub and Node - PHP memory issue for large node systems

### Upgrade Path

- Users upgrading to 6.1.3 must be on 6.0.2 or higher.

# SPM 6.1.2 Release Notes

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## May - 2017

### New Features/Enhancements

- Email enhancements
  - Email escalation and repetition using policies
  - Email groups
  - More detailed alarm descriptions
- Bulk device setup by spreadsheet import
- Support for PRO1 units
- Support for StarLine busways
- SNAP LDAP settings
- Report export as PDF
- Ability to enable/disable the reopening of tabs
- Dynamic detection of new CDU link units and EMCUs
- Security improvements

### Discontinued Features

- Removed maintenance icon in header
- Discontinued emails for actions, logins, and discoveries

### Bug Fixes

- 3070 Enforce "Strong Passwords" properly if enabled on the device
- 3138 Fix SNMP sets for Avocent ACS linked devices
- 3174 Environmental report will include sensors other than temperature and humidity
- 3195/3398 Fix issues with rfcodes sensors that get added or removed
- 3228/3246 Fix issues with processing traps
- 3274 Ignore unsupported threshold 0
- 3275 Prevent deletion of user groups with users
- 3296 Fix issues with tabs not opening
- 3305 Sensor hysteresis wasn't included in warning alarms for CDU1
- 3319 SFTP doesn't get disabled
- 3326 Devices becoming unreachable for a short time after SNMP sets
- 3337 Clarify statuses after license expiration
- 3340 Fix SNMP v3 passphrase length limit
- 3346 Fix network subnet list
- 3351 Fixes to the Cabinet Device Power report
- 3387 Fix dates in trend preview
- 3402 Outlet control for multiple PRO2 devices at a time
- 3425 Monthly scheduled tasks on days 29-31

### Upgrade Path

- Users upgrading to 6.1.2 must be on 6.0.2 or higher.

# SPM 6.0.9.13248 Release Notes

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## January - 2017

### New Features/Enhancements

- Security improvements
- Add SNAP support for PRO2 with TLS 1.2

### Bug Fixes

- 3371 Fix humidity threshold setup page
- 3383 Fix issue with SNAP initialization
- 3385 Fix trend dip on system restart

### Upgrade Path

- Users upgrading to 6.0.9 must be on 5.4.2 or higher.

# SPM 6.0.8.13103 Release Notes

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## September - 2016

### New Features/Enhancements

- Support for APC linked units

### Bug Fixes

- TCP Vulnerability CVE-2016-5696

### Upgrade Path

- Users upgrading to 6.0.8 must be on 5.4.2 or higher.

# SPM 6.0.7.13009 Release Notes

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## July - 2016

### New Features/Enhancements

- Security improvements
  - SQL vulnerability
  - Cross-Site Scripting vulnerability
  - Disabled RC4 cipher suite
- New energy subtotaled reports
- Improved Cabinet Device Inventory report
- Support for Schleifenbauer devices with no outlet monitoring
- Support for Geist R-Series V4 devices

### Discontinued Features

- ADC threshold setup in zones and locations
- Remove total current from cabinet and location tooltips

## Bug Fixes

- Prevented a scenario where duplicate IP Addresses can be added to the system
- Memory leak interrupts long GUI sessions
- 3093/9094 Asterisks in energy reports
- 3124/3170 Return-Path and disclaimer in scheduled emails
- 3131/3132 Scheduled outlet control by cabinet devices, outlet groups, and outlet clusters
- 3135 Crash due to large number of connections
- 3147 Fix for time zones
- 3160/3161 Fixes for IPv6
- 3165 Missing energy for some 3-phase 208V TRMS CDU1 devices
- 3175/3213 Incorrect sensor status
- 3178 Some 3-phase circuits show 0 current
- 3180 Missing CDU Power Capacity Used in summary page
- 3181 Some SNAP tags were not applied
- 3194/3199 Fixes to mount points
- 3220 Adding a device that previously failed to manage
- 3229 Fixes to processing of some SNMP traps
- 3234 Energy glitch after power loss
- 3244 PRO2 total current for 3-phase Wye
- 3254 Missing total power for Raritan PX2
- 3262 Fixed a switching issue related to having multiple devices in an outlet group or scheduled control
- 3264 Fixed an issue with old license keys having a small chance to expire
- 3272 Fixed a possible database deadlock in SNMP sets
- 3276 Fixed APC AP7xxx threshold
- 3277 Artificial outlets on smart 3-phase Wye units will be distributed to infeeds correctly
- 3287 Configuring outlets through outlet group and cluster pages
- 3289/3293 Issues for user groups with "No Access" permissions (contact STI Support for assistance)
- 3290 Unknown status incorrectly shown as black in location maps
- 3303 Unable to set sensor hysteresis
- 3310 Hub and Node Sync Error issue

## Upgrade Path

- Users upgrading to 6.0.7 must be on 5.4.2 or higher. This is the recommended upgrade path.

# SPM 6.0.3.12308 Release Notes

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## March – 2016

### Bug Fixes

- Zero Day vulnerability patched (CVE-2016-0728)
- GNU C library patched (CVE-2015-7547)

- SNMP trap fix
- Time zone fix

## Upgrade Path

- Users upgrading to 6.0.3 must be on 6.0.2.

# SPM 6.0.2.12306 Release Notes

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## October – 2015

### New Features/Enhancements

- Release notes presented after each upgrade
- Support for new PRO2 PDUs
- New PDU Objects to Support PRO2 PDUs
  - Device Input Cords
  - Device Branches
  - Device Phases
  - Device Lines
  - Device OCPs (Over current protection devices)
- Views added for outlets, branches, lines, phases, input cords, units, sensors, OCPs
- New Reports
  - Branch Current
  - Device Line Current
  - Phase Current
  - Subtotal Branch Current
  - Subtotal Device Line Current
  - Subtotal Phase Current
  - Complete Input Cord Power
- Support for several new competitive PDUs (contact STI support for more information)
- SNAP reworked to simplify use
- SFTP support
- Support for uploading custom SSL Certificates
- Configurable location map colors and ranges
- Report preview provided during report configuration
- Trend preview provided during trend configuration
- Digital view for current on device summary page
- Ability to cycle through tabs
- Statuses have a mouse over preview display
- All open tabs are remembered in between SPM sessions
- Improved Status rollups
- Improved list filters
- System Setup was split into SPM Setup and Admin Setup
- RAID array status on the SPM-APPR Appliances
- Ability to create a full image backup of SPM on appliances
- Allow users to delete removed PDU link units
- API improvements
- Upgrade to Ubuntu 12.04

- Security improvements

## Discontinued Features

- Power Density report/trend was removed
- Input Current report was removed
- Subtotal Input Current report was removed

## Bug Fixes

- 834 Support PDU total power for devices that don't provide it
- 2628 Allow periods in user names
- 2748 Allow @ in user names
- 2651/2894 Fixes for exceeding license nodes
- 3073 Fixes to mount points

## Upgrade Path

- Users upgrading to 6.0.2 must be on 5.4.2 or higher.

# SPM 5.4.8.12099 Release Notes

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## July - 2015

### Bug Fixes

- Prevent the accidental deletion of RRD files
- Fixed errors in Eaton template
- Support for longer RF Code tagid

### Upgrade Path

- Users upgrading to 5.4.8 must be on 5.3.4 or higher.

# SPM 5.4.7.11782 Release Notes

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## May - 2015

### Bug Fixes

- Fixes to Schleifenbauer template
- Fixes to Raritan templates
- Fixes to energy logging
  - Ignore 0 energy values
  - When SPM detects a changed serial number it will ignore the difference in energy counters

### Upgrade Path

- Users upgrading to 5.4.7 must be on 5.3.4 or higher.

# SPM 5.4.6.11499 Release Notes

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## February – 2015

### New Features/Enhancements

- Support for Schleifenbauer devices

### Bug Fixes

- Fix for SNMPv1 communication issues

### Upgrade Path

- Users upgrading to 5.4.6 must be on 5.3.4 or higher.

# SPM 5.4.5.11136 Release Notes

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## November – 2014

### Bug Fixes

- Fix for SNAP warning messages erroneously displaying
- Update Raritan PX2 template
- Fix for DC current not rolling up in reports
- RRD files were converted to shorter prefixes

### Upgrade Path

- Users upgrading to 5.4.5 must be on 5.3.4 or higher.

# SPM 5.4.4.11005 Release Notes

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## October – 2014

### New Features/Enhancements

- 2 new Baytech templates

### Bug Fixes

- Shellshock patches applied for CVE-2014-6271/6277/6278/7169/7186/7187
- Fix for Raritan PX2 template
- Fix for CDU alarms with long object names
- Support CDU1 branches
- Fixes for Hub and Node
- Fix serial port
- API fix for CDU service setBranchParams(s) and dataLog
- Update login banner character limit to 2070
- 2654 Filter by location/zone Carbon Footprint report
- 2694 Hub and Node fix for adding nodes

## Upgrade Path

- Users upgrading to 5.4.4 must be on 5.3.4 or higher.

# SPM 5.4.2.10353 Release Notes

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## June – 2014

### New Features/Enhancements

- Hub and Node
- LDAP - Added support for OpenLDAP/Sun One
- Support for -48 volt DC products with 7.0 firmware
- Support for CW-2H products with 7.0 firmware
- CDU User Login Password changes via SNAP
- Added all device templates by default
- New Cost per kWh field for zones and locations
- New CO2 per kWh field for zones and locations
- API - Added cabinet devices
- New reports
  - Energy Cost
  - Carbon Footprint
- New trends
  - Location PUE
  - Zone PUE
- Added custom date ranges for months and years in energy reports
- Added zone grouping option for power reports
- Display outlet locking
- Added description to Alert Lists
- Improved subject line of email alerts
- System settings
  - Allow custom IP Routes for internal routing tables
  - New email disclaimer setting
  - New SPM login banner setting
  - New Failure Tolerance setting
  - Added the option to turn off synchronizing temperature units (C/F) and area units (Meters/Feet) with the CDUs
- Performance enhancements
  - Support new SPM-APPR appliance
  - Various database improvements for increased performance
  - Improved memory management

### Discontinued Features

- PIPS Summary report has been removed.

### Bug Fixes

- Fix SNAP passwords of CDUs that were programmed with the wrong SNAP password from the factory, preventing access by SPM.
- NICs in specific ranges that were prepared with v7.0g or v7.0h firmware since April 17<sup>th</sup> 2013 are affected:
- |  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|



| Product            | Starting Bad NIC S/N | Ending Bad NIC S/N | Starting Good NIC S/N |
|--------------------|----------------------|--------------------|-----------------------|
| Smart CDU          | 7921500              | 7924999            | 7925000               |
| Switched CDU       | 8300000              | 8306299            | 8306300               |
| Smart PDU (OEM)    | 600000               | 600699             | 600700                |
| Switched PDU (OEM) | 700000               | 700099             | 700100                |

- 2159 Fix IPv6 address hyperlinks to CDU web pages
- 2361 Scheduled Tasks - Missed "1-time" tasks aren't logged
- 2375 Added device name and device type to SNAP Status page filters
- 2383 Username in system action logs
- 2384 SNAP status blank on deleted fields
- 2416 System Host Name - don't allow spaces
- 2417 Cannot delete CDU login banner through SNAP
- 2429 Database Restore failure handling
- 2435 Location/Zone > Setup > Location CDU thresholds not setting values on CDUs
- 2455 SNAP - DHCP FQDN Name (30C) fixed
- 2459 Support Tools - Communication Tests - SNMP Walk doesn't work with some special characters
- 2465 CDU > Setup > Environmental Monitors > EMCU ADC thresholds fixed
- 2469 SNAP - Missing fields from SPM SNAP templates
- 2473 Cabinet Redundancy report - 3-phase A infeed fixed
- 2476 SNAP of new firmware version should auto-sync
- 2479 When something stops the SPM services, they don't get restarted
- 2493 Allow spaces in user group names
- 2496 Some systems backups don't display in the GUI
- 2505 Enforce unique web ports
- 2512 Changes to Area field from SPM not sent to CDUs
- 2542 Fix web service DNS resolution issue
- 2552 CDU becomes unreachable after SNAP sync
- 2561 Warning Thresholds not converted to correct unit
- 2563/2615 Fix Recovery Delta Humidity field
- 2575 Remove competitive devices from Circuit setup
- 2602 Fix sensor name configuration
- 2623 API - cabinet device - edit/delete outlets
- 2629 Fix cabinet grouping in Total Power reports
- 2630/2631 Backup mount point fixes

## Upgrade Path

- Users upgrading to 5.4.2 must be on 5.3.4 or higher.

# SPM 5.3.4.8798 Release Notes

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July - 2013

## New Features/Enhancements

- Added the ability to communicate with CDUs via IPv6
- Added SNMPv3 support
- API Enhancements
  - Add cabinet space available
  - Add competitive device sensors to CDU detail
  - Add ability to get SPM version
- Avocent ACS device support
- Backup files now include date
- Custom Device Templates (software key required)
- Device discovery modified to allow entry of one IP address and a number of consecutive addresses
- Ability to clear device control queue
- Email alerts are grouped instead of sending one at a time
- HTTP and HTTPS dual support for SPM web interface
- LDAP – added Group Search ability for OpenLDAP & SunOne support to determine User Group membership
- Performance improvements for POPS data logging
- PDF Trends – improved look
- Report improvements
  - Add competitive device model number to Inventory Report
  - Add available outlets to U-Space Report
  - Environmental Report sorting
- Added Send Test Trap button
- RF Code Sensor integration support (software key required)
- Sensor support for competitive devices (existing competitive devices should be deleted and re-added to add this functionality)
- SMTP Authentication added (Digest-MD5, CRAM-MD5, Login, Plain, Any)
- Added SNAP Sync button
- Support Temperature/Humidity Probes on the link unit
- Upgrade to Ubuntu 10.04

## Discontinued Features

- No longer support rebooting outlets of Avocent devices

## Bug Fixes

- 1926 Icon transparency fixes
- 1937 SNMP – add more logging for sets/failures
- 1965 Device page – outlet control tab should not exist for Smart units
- 2004 Cabinet Redundancy – competitive devices should say "Not Supported"
- 2016 Trends – truncate the legend if it becomes too large
- 2045 Email enhancement – notify when alert cleared
- 2049 Cabinet device configuration sometimes showing ID instead of name
- 2050 Cabinet devices – selecting too many outlets sometimes de-selects outlets automatically
- 2056 Cabinet devices – usize still there when position is 0
- 2060 Lists inside configuration windows should be alphabetical
- 2093 Broken support link in SPM
- 2094 Backups – backups fail to get created if the folder is missing
- 2097 Regular user should not be able to run discovery using the wizard
- 2107 Cabinet Devices status always "unknown"
- 2109 Task Overview not showing scheduled tasks on some upgraded systems

- 2116 IP Address double-click not working when SPM unable to determine port
- 2123 Restore a Backup – change text to include the ability to upgrade
- 2137 Support Package – set the default action to create file in backups directory
- 2155 SNAP Template – Network Mode should be 1 or 2
- 2160 Fix scheduled outlet actions
- 2165 SNAP settings – Trap User Name should not be required
- 2175 U Space report configuration options not always correct
- 2176 Trends – hide Generate Trend button until trend info is saved
- 2180 SNAP – settings don't get set
- 2182 Emails – after a backup emails for objects are sent with status "power unknown"
- 2198 SNAP – SMTP Password Field should not be required
- 2200 SNAP – Select all button to apply settings to a cabinet/location/zone
- 2201 SNAP – Saving Changes fails when daylight savings time not set
- 2202 SNAP – Attempting to set fields that shouldn't be set
- 2208 Sensor alarm text should include sensor name
- 2209 Improved SNAP set commands on large groups of devices
- 2212 Power factor conversion error
- 2235 Total Power Unknown alarms on new objects
- 2237 Location parent loop – reached stack depth limit
- 2239 Cabinet Device – Cabinet drop down order for cabinets should be alphabetical
- 2240 Cabinet Device – always shows as NONE status
- 2242 Cabinet Device power/load trends not displaying
- 2243 Broken reports with Group By – U Space, Cabinet Device Inventory
- 2245 Only allow single select in Predictive tabs of devices
- 2250 Outlet Energy Consumed reports could report negative energy if Avocent devices were reset
- 2251 Backup Files – File sizes don't match actual file sizes
- 2252 Trends – set limit on number of selected items
- 2268 Adding cabinet devices from new cabinet selection should pre-select cabinet
- 2273 Fix filtering of alarms
- 2277 Energy report Duration not working
- 2278 Negative Energy in Report
- 2281 SNAP – Networking Items in the SNAP APPLY tab should say "read only"
- 2283 LDAP – only groups set as administrator work
- 2285 Backups – backup deletes Backups directory in some situations
- 2289 Community strings – longer than 16 characters don't work
- 2295 Adding/deleting regular user groups sometimes errors
- 2304 SPM Scheduled Outlet Action - Daily action not executed
- 2306 System settings – time zone changes should cause a reboot
- 2320 Startup script taking too long to run causing login/networking failure
- 2323 Remove IP address validation from SNAP fields
- 2337 SNAP IP settings not copying correctly from CDU to Zone, Location, Cabinet
- 2339 SNAP FTP server setting not in Cabinet, Zone, Location
- 2340 SNAP template DHCP settings not copying correctly from one template to another
- 2342 Configuration pop-up windows need to support 1280-800 screen resolution

- 2347 NTP settings were not properly syncing the system time
- 2373 Under certain conditions daily/weekly/monthly scheduled tasks did not execute
- 2379 SNAP – settings DNS 1 & 2 only set DNS1
- 2402 Only apply pending SNAP settings from the object you are applying from
- 2420 Report – General with Subtotals/Input Power – showing ##### for subtotals
- 2431 SNAP – when assigning a CDU template to a zone/location/cabinet the IPv4 subnet & gateway aren't copied

### Upgrade Path

- Users upgrading to 5.3.4 must be on 5.2.5 or higher.

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## SPM 5.2.10.8036 Release Notes

### February – 2013

#### Bug Fixes

- 2182 After a backup or SPM service restart, SPM sends email alerts with the status "Power Unknown"

#### Upgrade Path

- Users upgrading to 5.2.10 must be on 5.2.7.

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## SPM 5.2.9.7377 Release Notes

### November – 2012

#### New Features/Enhancements

- Added support for wider range of Trending Heart Beat values on the System Settings page. Changed the default Trending Heart Beat value to 864000.

#### Bug Fixes

- Scheduled outlet actions were not being performed for outlets, groups or clusters.

#### Upgrade Path

- Users upgrading to 5.2.9 must be on 5.2.7.

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## SPM 5.2.8.7033 Release Notes

### October – 2012

#### New Features/Enhancements

- Added Avocent (PM2000 & PM3000) support for Energy Consumed Reports.

#### Upgrade Path

- Users upgrading to 5.2.8 must be on 5.2.7.

# SPM 5.2.7.6893 Release Notes

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## October – 2012

### Bug Fixes

- User Interface "NAG" screen sometimes displayed even though the backend daemon processes were still running
- Temporary files created by a third party tool used to produce trends were not being removed properly

### Upgrade Path

- Users upgrading to 5.2.7 must be on 5.2.6, 5.2.5, or 5.1.5.

# SPM 5.2.6.6778 Release Notes

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## September – 2012

### New Features/Enhancements

- SNMP & SNAP commands now have a timer and will expire if not executed
- Both failed and successful SNMP & SNAP commands will be logged
- Watchdog will restart backend daemons if they terminate for any reason
- User interface will notify the user via a "NAG" screen if the backend daemons are not running

### Bug Fixes

- 2075 Inventory reports not reporting hierarchal locations
- 2087 Outlet Cluster - not showing total power/current with competitive devices
- 2088 Reports – Outlet reports missing competitive device outlets
- 2089 Trends – Outlet Cluster missing competitive device outlets
- 2090 Cabinet Device with competitive device outlet not showing power/current
- 2091 Trends – Cabinet Device total power/current missing for competitive devices
- 2099 Backups – more than 5 backups are being kept
- 2114 Existing trends could not be edited or show data after upgrade

### Upgrade Path

- Users upgrading to 5.2.6 must be on 5.2.5 or 5.1.5.

# SPM 5.2.5.6549 Release Notes

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## August – 2012

### New Features/Enhancements

- Competitive devices enhancements (device dependent)
  - Outlet control added for supported templates
  - Infeed name and threshold updating to device
  - Outlet name and threshold updating to device
  - Outlets can now be added to outlet groups/clusters
  - Outlets can be assigned security options
- Added Cabinet Devices feature
- Added Cabinet Redundancy feature
- Trending enhancements
  - Readability improved
  - Added min/max/avg to trend legends
  - Supported trends allow for overlapping a second trend type
  - Support for time period overlapping with other time periods
  - Support for predictive analysis based on time periods in the past and future
  - Predictive analysis can generate alarms
- Added SNMPv3 support
- Added the ability to configure a remote mount point for backups via SAMBA
- Added the ability to manage backup and firmware files directly from the web interface
- Added the ability to restore a backup file to SPM via the web interface
- Support Tools enhancements
- Added the ability to restart services or reboot the server via the web interface
- Added 2<sup>nd</sup> trap destination field in System Setup
- Added STI CDU configuration options for outlet Wake Up State and Post On Delay, CDU Sequence Interval and Reboot Delay, and CDU Area
- Added the ability to send SNAP line item control at Cabinet, Zone and Location level
- API - Added SNAP support
- Console command line enhancements
  - LDAP – allows enable|disable of LDAP
  - Email – allows enable|disable of email
  - Whoami – displays the version, serial, and current user
  - Diskinfo – displays disk usage
  - Processinfo – displays current processes
  - Ping – initiates a communication test
  - Walk – initiates an SNMP walk
  - Backup – initiates a backup
  - License – displays license info
- Improved SNMP polling performance
- List View improvements
- Reports
  - Enhanced Outlet Energy report location to sum data across sub-locations
  - Added Cabinet U space report
  - Added Cabinet Redundancy report
  - Added Cabinet Device Inventory report
  - Added Cabinet Device Power report

## Bug Fixes

- 1111/1165 Added descriptions for log entries on scheduling actions
- 1263 API - CDU dataLog - support location/cabinet/outlet group/outlet cluster power & load parameters

- 1274 Display Active Tasks icon for backups
- 1628 API - changed items in cabinet, location, CDU with incorrect data types
- 1653 Add hostname to the backup file name
- 1677 Fixed – Views - double clicking the "Configure" icon locks interface
- 1784 Discovering/Adding devices no longer requires SET community string
- 1785 Add ability to set CDU thresholds to CDUs within a zone
- 1848 Updated - API - Manual missing settings fields
- 1856 SNAP - Unlocked CDU showing wrong text on button
- 1860 SMTP enabled by default in new installs
- 1870 Edit/Create dialogs - export to XLS raw data does nothing
- 1890 Getting Started Help View gets stretched on wide screen monitors

## **Upgrade Path**

- Users upgrading to 5.2.5 must be on 5.1.5.