

# SPM 6.1.2 Release Notes

---

**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

---

## 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

---

## 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

---

## 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

---

## 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

---

## 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

---

## 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

---

## 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

---

## 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

---

## 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

---

## 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

---

## 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

---

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.

---

## 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.

---

## 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.

---

## 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

---

## 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

---

## 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

---

## 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  
API - changed items in cabinet, location, CDU with incorrect data types

- 1628
- 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.