

# SPM 6.0.8 Release Notes

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## September – 2016

### New Features/Enhancements

- Support for APC linked units

### Bug Fixes

- 3296 Issues with tabs not opening
- N/A TCP Vulnerability CVE-2016-5696

### Upgrade Path

- Users upgrading to 6.0.8 can upgrade from 5.4.2 or higher.

# SPM 6.0.7 Release Notes

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## July – 2016

### New Features/Enhancements

- Security improvements
  - o SQL vulnerability
  - o Cross-Site Scripting vulnerability
  - o 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 or Removed Features

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

### Bug Fixes

- 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
  - N/A Prevented a scenario where duplicate IP Addresses can be added to the system
- 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
- N/A Memory leak interrupts long GUI sessions

### Upgrade Path

- Users upgrading to 6.0.7 can upgrade from 5.4.2 or higher. This is the recommended upgrade path.

## SPM 6.0.3.12308 Release Notes

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### March - 2016

#### Major Issues Resolved

- Zero Day vulnerability patched (CVE-2016-0728)
- GNU C library patched (CVE-2015-7547)
- SNMP trap fix
- Timezone fix

### Upgrade Path

- Users upgrading to 6.0.3.12308 can upgrade from 6.0.2.12306.

## 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
- Added support for several new competitive PDU (contact STI Support for more information)
- New PDU Objects to Support PRO2 PDUs
  - o Device Input Cords
  - o Device Branches
  - o Device Phases
  - o Device Lines
  - o Device OCPs (Over current protection devices)
- Every Object now has a summary view
  - o Views added: Outlets, branches, lines, phases, input cords, units, sensors, OCPs
- Digital view for current on device summary page was added
- Report preview provided during report configuration
- Trend preview provided during trend configuration
- New Reports
  - o Branch Current
  - o Device Line Current
  - o Phase Current
  - o Subtotal Branch Current
  - o Subtotal Device Line Current
  - o Subtotal Phase Current
  - o Complete Input Cord Power
- Map colors and ranges can now be changed by the user
- Ability to create a full image backup of SPM on appliances
  - o Ability to schedule this as well
- SFTP support was added (set as default FTP method)
- Support for users' own SSL Certificates
- Ability to see status of RAID array on the SPM-APPR Appliance
- Allow users to delete removed PDU links
- Ability to cycle through tab displays as an animation
- Statuses have a mouse over preview display
- All open tabs are remembered in between SPM sessions
- Updated OS / Software to improve performance and security
- Improved Status rollups
- Device- New PDU objects to Support PRO2 PDUs include branch, phase, line, unit, and input cord readings
- SNAP- Reworked to simplify use, templates easier to use, SNAP by Location, Zone
- Trends- Configuration options have been simplified, added all new reading and trend types
- Lists- Improved search filter, GUI remembers list width changes between sessions
- Changes
  - o Support Tools configuration was moved to the SPM Setup section
  - o System Setup was split into: SPM Setup and Admin Setup
  - o Predictive Analysis configuration was moved to SPM Setup

## Discontinued or Removed 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 Fixes for exceeding license nodes
- 2894 Fixes for exceeding license nodes
- 3073 Fixes to mount points

## Upgrade Path

- Users upgrading to 6.0.2 can upgrade from 5.4.2 or higher.

# SPM 5.4.8.12099 Release Notes

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## July – 2015

### New Features/Enhancements

- Not Applicable

### Deprecated

- Not Applicable

### Discontinued or Removed Features

- Not Applicable

### Major Issues Resolved

- Prevent the accidental deletion of RRD files

### Bug Fixes

- Eaton
  - Fixed errors in Eaton template
- RF Code
  - Support for longer RF Code tagid

### Upgrade Path

- Users upgrading to 5.4.8.xxx can upgrade from 5.3.4.xxx or higher.

# SPM 5.4.7.11782 Release Notes

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## May - 2015

### New Features/Enhancements

- Not Applicable

### Deprecated

- Not Applicable

### Discontinued or Removed Features

- Not Applicable

### Major Issues Resolved

- Not Applicable

### Bug Fixes

#### Schleifenbauer

Fixed glitch with 3 phase devices where some infeeds showed the wrong names and values

Added infeed apparent power

Added non-measured outlets

#### Raritan

Fixed temperature scale

#### Energy Reports

SPM to ignore 0 energy values

When SPM detects a changed serial number it will ignore the difference in energy counters

Added energy counter logging for debug purposes

### Upgrade Path

- Users upgrading to 5.4.7.xxx can upgrade from 5.3.4.xxx or higher.

# SPM 5.4.6.11499 Release Notes

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## February - 2015

### New Features/Enhancements

- Support for Schleifenbauer devices

### Deprecated

- Not Applicable

### Discontinued or Removed Features

- Not Applicable

## Major Issues Resolved

- Fix for SNMPv1 communication issues

## Bug Fixes

## Upgrade Path

- Users upgrading to 5.4.6.xxx can upgrade from 5.3.4.xxx or higher.

# SPM 5.4.5.11136 Release Notes

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## November – 2014

### New Features/Enhancements

- Not Applicable

### Deprecated

- Not Applicable

### Discontinued or Removed Features

- Not Applicable

## Major Issues Resolved

- 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 (3 character limit)

## Bug Fixes

## Upgrade Path

- Users upgrading to 5.4.5.xxx can upgrade from 5.3.4.xxx or higher.

# SPM 5.4.4.11005 Release Notes

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## October – 2014

### New Features/Enhancements

- 2 New Baytech templates
  - o Baytech\_MMP\_Single-Phase
  - o Baytech\_MMP\_3-Phase

## Deprecated

- Not Applicable

## Discontinued or Removed Features

- Not Applicable

## Major Issues Resolved

- Shellshock patches applied
  - o Shellshock Threat / CVE-2014-6271/6277/6278/7169/7186/7187  
(Bash version 4.1- 2ubuntu3.5)

## Bug Fixes

- 2628 - Allow usernames with period
- 2654 - Fix filter by location/zone Carbon Footprint report
- 2655 - Fix typo in Carbon Footprint report
- 2694 - Hub and Node – fix - adding a node fails (invalid id sequence)
- N/A - API fix CDU service for setBranchParams(s) and datalog
- N/A - Branch style CDU support (for CDU1)  
Fix for CDU alarms with names longer than 50 characters (location + cab + cdu  
names)
- N/A - Fix SNAP problem when enabling/disabling a location
- N/A - Hub and Node – fix support for large amounts of energy history
- N/A - Hub and Node – fix rename sensor on the hub erasing sensor parent on the node
- N/A - Raritan PX2 template typo for power type
- N/A - Serial Port – missing configuration file
- N/A - Update login banner limit to 2070

## Upgrade Path

- Users upgrading to 5.4.4.10998 can upgrade from 5.3.4.xxx or higher.

# SPM 5.4.2.10353 Release Notes

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## June - 2014

### New Features/Enhancements

- Hub and Node
  - o Requires license keys to be configured as Hub or Node
  - o Hub SPM can manage CDUs from other SPM nodes
  - o For specifics and setup information see Technical Note 303-9999-28 documentation on Hub and Node
- LDAP enhancements
  - o Added support for OpenLDAP/Sun One
- Energy Reports
  - o Added the ability to define custom date ranges for months and years
- Power reports
  - o Added the ability to group by zone to reports that could be grouped by location
- Carbon foot print report
  - o Added CO2 per kWh value -must be setup in the Zone or Location (in the Setup/Thresholds tab)
  - o Report is called Energy Cost – Carbon Foot Print
- Power billing report
  - o Added Cost per kWh – kWh and monetary symbol must be setup in the Zone or Location (in the Setup/Thresholds tab)
  - o Report is called Energy Cost – Energy Cost
- PUE trending added for Zones and Locations
  - o Total Facility Power must be setup in the Zone or Location (in the Setup/Thresholds tab)
  - o Trends are called Zone PUE and Location PUE
- API - Added cabinet devices
  - o See API documentation for specifics on the cabinet devices service in the API
- -48 volt DC product support
  - o Support for 7.0 firmware for DC devices
- Added support for the CW-2H CDU with 7.0x firmware
- Outlet Locking display
  - o Outlets that are locked display the locked status in SPM
- CDU User Login Passwords can now be changed via SNAP
- SPM License screen now displays the number of CDUs used and remaining
- Added all existing competitive device templates to build
- Added description to Alert Lists
- Added location:cabinet:cdu, location:cabinet and object name to the subject line of email alerts
- SPM Setup
  - o Allow custom IP Routes for internal routing tables
  - o Allow the user to choose if the CDU's name is FQDN or IP
  - o Added email disclaimer option
  - o Added the ability to set a SPM login banner and change the SPM login background image
  - o Added the ability to turn off NTP if no server is available
  - o Added the option to turn off synchronizing temperature (C vs F) and area units (Meters vs Feet) with the CDUs
  - o Added Failure Tolerance
    - Give the ability for a number of missing polls to a device via SNMP to add up to the indicated number of times before being declared unreachable.



- Performance enhancements
  - o New SPM-APPR appliance
  - o Network driver support for the SPM-APPR
  - o Various database improvements for increased performance
  - o Improved memory management

## Deprecated

- Not Applicable.

## Discontinued or Removed Features

- PIPS Summary report has been removed.

## Issues Resolved

CDUs were programmed with the wrong SNAP password from the factory. The incorrect passwords are not allowing SNAP access by SPM.

NICs in specific serial-number ranges that were prepared with v7.0g or v7.0h 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                |

SPM should correct the SNAP password and allow access.

## Bug Fixes

- 2159 IPv6 address hyperlinks to CDU web page don't work
- 2361 Schedule Tasks - Missed "1-time" tasks aren't logged
- 2375 Added device name and device type to SNAP Status page filters
- 2383 Logging is showing "adm" user for "system" actions
- 2384 SNAP status blank on deleted fields
- 2394 Firmware page typo says "delete backup file"
- 2400 SNAP Fail logs need IP Address
- 2416 System Host Name - don't allow spaces
- 2417 Cannot delete CDU login banner through SNAP
- 2429 Database Restore failure doesn't reset setting "database restore" flag in settings
- 2435 Location/Zone> Setup> Location CDU thresholds not setting values on cdus
- 2443 Support pack fails to generate if setup to send by email
- 2455 SNAP - DHCP FQDN Name (30C) fixed
- 2459 Support Tools - Communication Tests - SNMP Walk doesn't work with some special characters
- 2463 Change "{Action}: succeeded" message to be more clear
- 2465 CDU > Setup > Environmental Monitors > EMCU ADC thresholds wrong
- 2469 SNAP - Missing fields from SPM snap templates
- 2473 Cabinet Redundancy report bug: 3-phase A infeed error
- 2476 SNAP of new firmware version should auto-sync
- 2479 Services - when something stops the spm services, they don't get restarted
- 2493 User Groups - allow spaces in the names

- 2496 Backups - some systems backups don't display in the GUI
- 2502 Customer images – support special characters in the name
- 2505 Networking - do not allow the user to set both web ports to the same port
- 2506 Don't allow blank space in Host Name field on SNAP | SMTP screen
- 2512 Changes to Area field from SPM not sent to CDUs
- 2514 Maximum value incorrect on Area field
- 2524 Maximum value on Sequence Interval is incorrect
- 2531 Maximum number of characters in Outlet Group is incorrect
- 2542 apache2.conf - add lines to fix dns resolution issue
- 2545 Support pack - sometimes doesn't get created
- 2552 SNAP - Sync - cdu goes unreachable
- 2561 Warning Thresholds not converted to correct unit type
- 2563 Cannot set Recovery Delta (Humidity) field
- 2575 Remove competitive devices from Circuit setup
- 2595 Power Density Report - column width not large enough for values in the 10,000s
- 2602 Configure Sensor Name - the name isn't changing on the CDU
- 2611 Application Help - Technical Support - Access to support and documentation broken link
- 2615 Hysteresis - Humidity recovery delta should only be available for 7.0j or later
- 2618 Misspelled words in error message - license key error message
- 2623 API- cabinet device - edit/delete outlet
- 2629 Reports - Total Power - Group by Cabinet with Location selected fails
- 2630 Backup mount point - changing from SAMBA to local doesn't clear setting
- 2631 SAMBA mount point causing boot errors
- 2632 Views - outlet power and outlet control only work the first time they are added

## Upgrade Path

- Users upgrading to 5.4.2.10353 can upgrade from 5.3.x.xxxx.

# SPM 5.3.4.8798 Release Notes

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## July – 2013

### New Features/Enhancements

- API Enhancements
  - o Add cabinet space available
  - o Add competitive device sensors to cdu detail
  - o Add ability to get SPM version
- Avocent AVS device support
  - o ACS “Classic”, ACS500, ACS6000 series devices
  - o Avocent environmental sensors
  - o With PM10i and PM20i PDU support
- Backup files now include date modified

- Branch current monitory for new Server Technology Products
- Custom Device Templates (Software Key Required) P/N SPM-CDT
  - o Added the ability to monitor SNMP enabled devices via user created template
- Device discovery modified to allow entry of one IP address and a number of consecutive addresses
- Device Control Queue – added button with the ability to clear the queue through the web interface
- Email alerts are grouped instead of sending one at a time
- HTTP and HTTPS dual support for SPM user interface
- IPv6 support for CDU – SPM communication
  - o Added the ability to communicate with via IPv6
  - o Note: only communication between the CDU and SPM is supported via IPv6. Communications between syslog, SNTP, email servers, user authentication servers, DNS and NTP servers not supported
- LDAP – added Group Search ability for OpenLDAP & SunOne support to determine User Group membership
- Log Entries
  - o Log the completion of an Upgrade
  - o Unreachable alarms Log – added event end date/timestamp to log entry
- Logging for POPS devices performance improvements
- PDF Trends – improved look
  - o Reduced font size and increased trend area
- Reports
  - o Add competitive device model number to Inventory Report
  - o Add available outlets to U-Space Report
  - o Environmental Report
    - Performance Improvements
    - Sorting – report by sensor name then cdu
- RF Code Sensor integration support (Software Key Required) P/N SPM-RFC
  - o Added the ability to monitor and alert on Temperature, Humidity, Dew Point, Pressure
  - o Added RF sensors to reports/trends
- Send Test Trap Button
  - o Allow the user to generate a test trap from SPM and send to a trap receiver
- Sensor support for competitive devices
  - o Competitive devices being managed by SPM prior to 5.3 will need to be deleted and re-added to add this functionality
- SMTP
  - o SMTP Authentication added (Digest-MD5, CRAM-MD5, Login, Plain, Any)
  - o Troubleshooting messages added
- SNAP
  - o Notify the user of errors in a SNAP template when attempting to save
  - o “Sync” button added
    - Allows the user to synchronize settings between a single CDU and SPM
- SNMPv3 support
  - o Added support for SNMPv3 device communication
- Support Package
  - o Added ability to run from the console command line
- Temperature/Humidity Probes on the link unit
- Ubuntu 10.04

- Upgrade to latest(February 2013) release packages of Apache, PHP, SSL

## Deprecated

- Not Applicable

## Discontinued or Removed Features

- Avocent devices no longer support “Reboot” outlets

## Major Issues Resolved

- Not Applicable.

## 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 Cab Redundancy – competitive devices should say “Not Supported”
- 2007 Change system settings text to make it clear the temperature units is for STI Products
- 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
- 2083 Log descriptions display Zone ID instead of name
- 2084 Log descriptions do not display report names
- 2085 Log descriptions do not display location names
- 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 discover using the wizard
- 2098 Location sorting initial list should be alphabetical ascending
- 2106 Remove Get/Set community string filters, fields are not searchable (encryption)
- 2107 Cabinet Devices status always “unknown”
- 2109 Task Overview not showing scheduled tasks on some upgraded systems
- 2112 Log messages repeat for outlet actions considered a cluster
- 2116 IP Address double-click not working when SPM unable to determine if port 80 or 443
- 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 – Network Mode – should be 1 or 2
- 2160 Schedule Outlet actions on outlet, group, cluster don’t work
- 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 backup emails for objects are sent with status “power unknown”
- 2194 CDU list – Remove Total Power if it is the same as Power
- 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 Alarm and alarm history filtering not filtering correctly
- 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 Resetallmetereddata script taking too long to run causing login/networking failure
- 2323 Remove IP address validation from SNAP fields
- 2337 IP settings SNAP 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 – assigning a cdu template to a zone/location/cabinet the IPv4 subnet & gateway aren't copied
- 2440 Updated log message for temperature scale to include the unit C or F for clarity
- 2441 Updated log message for charging the outlet status to include the text on/off/reboot for clarity

## Upgrade Path

- Users upgrading to 5.3.4.8798 can upgrade from 5.2.x.xxxx.

# SPM 5.2.10.8036 Release Notes

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## February – 2013

### New Features/Enhancements

- Not Applicable.

### Deprecated

- Not Applicable

### Discontinued or Removed Features

- Not Applicable

### Major Issues Resolved

- Not Applicable.

### Bug Fixes

- 2182 - After a backup or restarting SPM services, SPM sends an Email Alert for each Cabinet, or Outlet Group with the status “Power Unknown”.

### Upgrade Path

- Users upgrading to 5.2.10.836 can upgrade from 5.2.7.xxxx.

# SPM 5.2.9.7377 Release Notes

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## 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.

### Deprecated

- Not Applicable

### Discontinued or Removed Features

- Not Applicable

### Major Issues Resolved

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

### Bug Fixes

- Not Applicable

### Upgrade Path

- Users upgrading to 5.2.9.7377 can upgrade from 5.2.7.xxxx.

# SPM 5.2.8.7033 Release Notes

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## October – 2012

### New Features/Enhancements

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

### Deprecated

- Not Applicable

### Discontinued or Removed Features

- Not Applicable

### Major Issues Resolved

- Not Applicable

### Bug Fixes

- Not Applicable

### Upgrade Path

- Users upgrading to 5.2.8.7033 can upgrade from 5.2.7.xxxx.

# SPM 5.2.7.6893 Release Notes

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## October – 2012

### New Features/Enhancements

- Not Applicable

### Deprecated

- Not Applicable

### Discontinued or Removed Features

- Not Applicable

### Major Issues Resolved

- 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

## Bug Fixes

- Not Applicable

## Upgrade Path

- Users upgrading to 5.2.7.6893 can upgrade from 5.2.6.xxxx, 5.2.5.xxx or 5.1.5.5062 SPM release.

# SPM 5.2.6.6778 Release Notes

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## September – 2012

### New Features/Enhancements

- Commands will no longer reside in tables for extended periods of time
  - 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
  - System will be locked on the “NAG” screen until the daemons are restarted

### Deprecated

- Not Applicable

### Discontinued or Removed Features

- Not Applicable

### Major Issues Resolved

- Not Applicable

## 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 5.2.6.6778 can upgrade from 5.2.5.6549 or 5.1.5.5062 SPM release.



# SPM 5.2.5.6549

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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
  - Cabinet Devices allow the user to create devices to represent equipment in the Cabinet and track the outlets used by that equipment
  - Cabinet Devices can be viewed from the Cabinet or via the Device Selection menu
  - Cabinet Devices can be found using the top search bar
- Added Cabinet Redundancy feature
  - Cabinet Redundancy allows the user the ability to see if the power provided to the cabinet will keep devices powered if either the A or B power source is lost
  - Added ability to designate CDUs Power Source as A or B when added to a Cabinet
  - Added Bar Graph to Cabinet Summary tab to visually represent Power Redundancy for that Cabinet
  - Added Redundant Status to Cabinet Summary tab and Cabinet lists
  - Added new reports (see Reports section of release notes)
- Trending enhancements/features
  - Readability improved
    - Trends now show min/max/avg for each line and period
    - added period to trend
  - Supported trends allow for overlapping a second trend type
  - Support for period overlapping with other periods
  - Support for predictive analysis based on time periods in the past and future
  - Predictive analysis can generate alarms based on future trends
- Added SNMPv3 support for both STI and competitive devices
  - Device discovery supports SNMPv3 for STI products
  - Manual addition of STI and competitive devices supports SNMPv3
- 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
  - Firmware File manager allows the user to upload, download or delete files in the firmware folder of SPM using the web interface
  - Backup Files manager allows the user to download or delete backups on the SPM using the web interface
  - Restore a Backup allows the user to upload a backup to the SPM via the web interface
- Support Tools enhanced
  - Support Package allow the user to run or schedule an information package that will be emailed to STI support to help diagnose problems

- Communication Tests allow the user to Ping or SNMP Walk a device using SNMPv1,2 or 3
- System Info provides SPM server system information on a page view
  - Hostname & IP address
  - Disk Space used & free
  - Memory used & free
  - Last backup date
  - Serial Number
  - Hardware Internal Sensor status – (does not apply to virtual servers)
- Capability to restart services or reboot server on System Info tab
- Added 2<sup>nd</sup> trap destination field in System Setup
- Added STI CDU configuration options (GUI and API)
  - Added outlet Wake Up State and Post On Delay
  - Added CDU Sequence Interval and Reboot Delay
  - Added CDU area
- SNAP
  - Added the ability to modify SNAP template and send SNAP template to CDU using the API
  - Added the ability to send SNAP line item control at Cabinet, Zone and Location level
    - NOTE: this can circumvent internal checks and should be used with caution
    - See “Selected Update of SNAP Template Settings” in the online help for more information
- Enhanced the readability of log entries to make them more user friendly
- 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 a SNMP walk
  - Backup – initiates a backup
  - License – displays license info
- Improved SNMP polling performance to only query needed data
- List View improvements
  - Added Predictive list tab for quick analysis of prediction data
  - Added Predictive option to Configure Threshold lists
- Reports
  - Enhanced Outlet Energy report location data now summed (locations include sub-location totals)
  - Added Cabinet U space report
  - Added Cabinet Redundancy report
  - Added Cabinet Device Inventory report
  - Added Cabinet Device Power report

## Deprecated

- Not Applicable

## Discontinued or Removed Features

- Not Applicable

## Major Issues Resolved

- Not Applicable

## 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
- 1603 - Added Telnet command line help
- 1628 - API: changed items in cabinet, location, cdu with incorrect data types
- 1653 - Add hostname to the backup file name to uniquely identify it
- 1677 - Fixed – Views - double clicking the "Configure" icon locks interface
- 1784 - Discovery/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 - Fixed - SNAP - Unlocked CDU showing wrong text on button
- 1860 - Fixed - New Builds - SMTP enabled by default
- 1870 - Fixed - Edit/Create dialogs - export to XLS raw data does nothing
- 1890 - Getting Started Help View gets stretched on wide screen monitors
- 1952 - Fixed - Filtered Search Bar - Mouse over help disappears too quickly
- 1953 - Fixed - New User Report - No Help Menu Option

## Upgrade Path

- Users upgrading to 5.2.5.6549 must be on the 5.1.5.5062 SPM release.