SPM 5.3.4.8798 Release Notes

July – 2013

New Features/Enhancements

- API Enhancements
  - Add cabinet space available
  - Add competitive device sensors to cdu detail
  - Add ability to get SPM version
- Avocent ACS device support
  - ACS "Classic", ACS5000, ACS6000 series devices
  - Avocent environmental sensors
  - With PM10i and PM20i PDU support
- Backup files now include date modified
- Branch current monitoring support for new Server Technology Products
- Custom Device Templates (Software Key Required) P/N SPM-CDT
  - 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
  - Added the ability to communicate with via IPv6
  - 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 Open LDAP & SunOne support to determine User Group membership
- Log Entries
  - Log the completion of an Upgrade
  - Unreachable alarms Log – added event end date/timestamp to log entry
- Logging for POPS devices performance improvements
- PDF Trends – improved look
  - Reduced font size and increased trend area
- Reports
  - Add competitive device model number to Inventory Report
  - Add available outlets to U-Space Report
  - Environmental Report
    - Performance Improvements
    - Sorting – report by sensor name then cdu
- RF Code Sensor integration support (Software Key Required) P/N SPM-RFC
  - Added the ability to monitor and alert on Temperature, Humidity, Dew Point, Pressure
  - Added RF sensors to reports/trends
- Send Test Trap Button
  - Allow the user to generate a test trap from SPM and send to a trap receiver

- Sensor support for competitive devices
  - Competitive devices being managed by SPM prior to 5.3 will need to be deleted and re-added to add this functionality
- SMTP
  - SMTP Authentication added (Digest-MD5, CRAM-MD5, Login, Plain, Any)
  - Troubleshooting messages added
- SNAP
  - Notify the user of errors in a SNAP template when attempting to save
  - "Sync" button added
    - Allows the user to synchronize settings between a single CDU and SPM
- SNMPv3 support
  - Added support for SNMPv3 device communication
- Support Package
  - 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 on the SPM if the folder is missing
2097	Regular user should not be able to run discovery 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
2125	SNAP - FTP auto update scheduled day is off by a day
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 1280x800 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 – setting 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 changing 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

February – 2013

New Features/Enhancements
- Not Applicable.

Deprecated
- Not Applicable

Discontinued or Removed Features
- Not Applicable

Major Issues Resolved
- Not Applicable.

Bug Fixes

		After a backup or restarting SPM services, SPM sends an Email Alert for each Cabinet,
2182	-	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

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

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

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

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

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

- o Readability improved
  - ▪ Trends now show min/max/avg for each line and period
  - ▪ added period to trend
- o Supported trends allow for overlapping a second trend type
- o Support for period overlapping with other periods
- o Support for predictive analysis based on time periods in the past and future
- o Predictive analysis can generate alarms based on future trends
- Added SNMPv3 support for both STI and competitive devices
  - o Device discovery supports SNMPv3 for STI products
  - o 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
  - o Firmware File manager allows the user to upload, download or delete files in the firmware folder of SPM using the web interface
  - o Backup Files manager allows the user to download or delete backups on the SPM using the web interface
  - o Restore a Backup allows the user to upload a backup to the SPM via the web interface
- Support Tools enhanced
  - o Support Package allow the user to run or schedule an information package that will be emailed to STI support to help diagnose problems
  - o Communication Tests allow the user to Ping or SNMP Walk a device using SNMPv1,2 or 3
  - o 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)
  - o Capability to restart services or reboot server on System Info tab
- Added 2nd trap destination field in System Setup
- Added STI CDU configuration options (GUI and API)
  - o Added outlet Wake Up State and Post On Delay
  - o Added CDU Sequence Interval and Reboot Delay
  - o Added CDU area
- SNAP
  - o Added the ability to modify SNAP template and send SNAP template to CDU using the API
  - o 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
  - o Ldap – allows enable|disable of LDAP
  - o Email – allows enable|disable of email
  - o Whoami – displays the version, serial, and current user
  - o Diskinfo – displays disk usage
  - o Processinfo – displays current processes
  - o Ping – initiates a communication test

- o Walk – initiates a SNMP walk
- o Backup – initiates a backup
- o License – displays license info
- Improved SNMP polling performance to only query needed data
- List View improvements
  - o Added Predictive list tab for quick analysis of prediction data
  - o Added Predictive option to Configure Threshold lists
- Reports
  - o Enhanced Outlet Energy report location data now summed (locations include sub-location totals)
  - o Added Cabinet U space report
  - o Added Cabinet Redundancy report
  - o Added Cabinet Device Inventory report
  - o 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.