

# SPM 4.3.2 Release Notes

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## 4.3.2 December - 2010

### **New Features/Enhancements:**

#### ***FTP Server***

- SPM now has the ability to act as a FTP server for updating CDUs
  - See Server Technology Technical Note for more information on setup and usage.

#### ***POPS feature activation in PIPS/POPS devices***

- SPM now supports activation of POPS features in POPS/PIPS devices

### **Improvements:**

#### ***Support for more devices:***

- SPM Service Applications are now more robust to support managing larger device deployments

#### ***Default Settings:***

- The Ethernet MTU settings is now defaulted to 1492

#### ***Reports:***

- Removed DCiE from PUE report

### **Deprecated:**

***-None-***

### **Discontinued or Removed Features:**

#### ***Removed:***

- Per Ticket #1313 FTP access is restricted to only SPM's upgrade folder

### **Major Issues Resolved:**

#### ***LDAP:***

- LDAP access can only be used to login to the Web Interface
- Previously, when LDAP was properly configured on SPM and the SPM was rebooted trending stopped. LDAP no longer affects trending
- Access to console , FTP , telnet , SSH , or serial requires a SPM administrator account. Access via LDAP accounts will be denied.

#### ***Alarms:***

- After an upgrade alarms sometimes displayed the reason message, "Database Error". The correct reason now displays in the reason message.
- Devices that became unreachable while in an alarm state didn't always return to the correct status. Devices that go unreachable now return from the unreachable condition to the correct status.

- Devices with an outlet or infeed alarm when initially added or discovered didn't always report the associated alarm when initially managed. When devices are initially managed they will now display the correct alarm status.

***Trends:***

- Previously there were scenarios where trends could be overwritten. Trends will not be overwritten now.

***CDU Firmware***

- CDU Firmware prior to version 6.0n could cause the SPM to not update a devices data. Regardless of firmware version, SPM will update a devices data.

**Bug Fixes:**

#1313 Restrict FTP access to SPM's upgrade folder

#1327 When LDAP is enabled trending stops

Trending output to the console

**4.3.0 August – 08-30-10**

**New Features/Enhancements:**

***API***

- Competitive Device Support is now in the API
- PIPS support added to API

***Database Maintenance Scripts***

- Set up by default in Schedule
- DB Maintenance scripts
  - DB Maintenance script
  - Full Maintenance script
- Support for scheduling daily, weekly or monthly

***EMCU product support adds***

- 2 Temperature and humidity probes
- Water sensor
- 4 Contact enclosure

***Help -> Licenses page shows all supported devices now***

***Improved logging for:***

- Install
- Upgrade
- Backup
- Restore
- Scheduled scripts

***New Maps***

- Added new maps for use in locations

### ***New Reports***

- PUE /DCiE
- Circuit Summary
- Subtotal reports
  - Input Load
  - Input Power
- Power Summary reports
  - Complete Outlet Power
  - Complete Infeed/Branch Power
  - Complete Power Summary

### ***New Settings:***

- 4 Email addresses can be defined
- Send test email
- DNS name support (applies to all network interfaces)
- Syslog support

### ***Outlet Groups have changed:***

- Outlet Groups now only have outlets in them
- Outlet Clusters are groups of outlet groups
- A group may be in more than one cluster
- User security applies to outlet clusters, not groups

### ***PIPS Support***

- Infeeds now display power information for PIPS devices
- Reports/Trends updated to support V, A, & Power

### ***Scheduling***

- Backups (complete backup: db and SPM files)
- Outlet control
  - Outlets
  - Groups
  - Clusters
- Database Maintenance (DB Maintenance and Full Maintenance)
- Device Discovery
- Schedule can be daily, weekly, or monthly

### ***Trends now trend power/load per:***

- Locations
- Cabinets
- Groups
- Clusters
- Circuits
- Some new Infeed options as well

### **Improvements:**

#### ***API:***

- Fault text improved
- Logging improved

- Parameter and value validation improved

***Backup and Restore:***

- Files can have extra text after the name
- Backups retain all SPM files for a full restore of SPM

***Reports:***

- All group/cluster reports improved
- Inventory report has model number and serial number

**Deprecated:**

*-None-*

**Discontinued or Removed Features:**

***Removed:***

- sysContact, sysLocation, sysDescription from CDU summary

**Major Issues Resolved:**

*-None-*

**Bug Fixes:**

- #168 Chrome: XML output different
- #196 Chrome: New cabinet text boxes not aligned
- #197 Chrome: New location textbox not aligned
- #235 Search syntax help list truncated
- #331 Empty locations indicate values for some views
- #504 Load low field added
- #642 IPaddress in log actually showing Name
- #643 Customer request: Glide over power/load be total
- #702 Map Icon display incorrectly displays humidity value
- #726 Infeed Voltage should only trend on PIPs devices
- #741 Missing DNS field on network setup setting page

- #815 Infeed Load Trend (Outlet Load also) has incorrect units
- #850 Competitive devices - leaving maintenance – don't update status properly
- #853 Competitive devices - non admin users can't see infeed trends
- #925 Usersettings entries are not deleted when a user is deleted
- #929 Firefox: Can't change certain Settings back without reloading the page
- #959 Logs - removing cdus lists wrong database entry
- #968 Console help for eth1 incorrect
- #990 Logs - changing outlet power thresholds lists wrong database entry
- #995 Logs – When changing permissions log lists wrong database entry
- #1015 Login page title changed to “SPM Login”
- #1044 Remove empty log file in the /usr/share/spm/upgrade folder
- CDU - Outlets - Display Control Action (NONE, ON, OFF, REBOOT) should be removed for non-switched CDUs
- #1050

## **4.2. March Patch RC4- 04-20-10**

## **4.2. March Patch RC3- 03-30-10**

## **4.2. March Patch RC1- 03-05-10**

## **4.2. – Patch -01-04-10**

## **4.2. – December Patch -12-18-09**

## **4.2. – Patch -12-03-09**

### **New Features:**

- API support added. A full featured programming interface to the system has been added
- PIPS support preplanning (PIPS Support will not be until version 4.3.0)
  - new power report
  - new trend options
  - all PIPS related data
- Web client SSL support
- SSH support
- Automated Backup support – Now, daily, weekly or monthly
- NTP support
- FTP configuration support
- OEM Device support added – Rittal, Panduit will come with the release. Others can be easily added.
- Power data from competitive PDUs can now be gathered
  - Power from the whole devices
  - Power from Infeeds or Branches
  - Power from Outlets
- Trap forwarding support added
- New load report
- New report to show all power information on one report
- Support for a new more powerful RAID appliance

- Support for VMWare Virtual Appliances
- Support for CS-18 added

### **Improvements:**

- Streamlined operating system – removed unnecessary packages
- better use of disk space on data logging using industry standard trending methods
  - Detail on 2 minute intervals for 10 days
  - Detail on 4 hour intervals for 2 months
  - Detail on 1 day intervals for up to 3 years
- improved security options
  - Login lockouts for security
  - blocked creation of certain user names that could take advantage of the system
    - 'root', 'daemon', 'bin', 'sys', 'sync', 'mail', 'proxy', 'www-data', 'backup', 'list', 'irc', 'nobody', 'libuuid', 'syslog', 'avahi-autoipd', 'saned', 'messagebus', 'polkituser', 'avahi', 'haldaemon', 'postfix', 'postgres', 'sshd', 'ftp'
  - SSH support over Telnet support
  - SSL support
  - Per user lockouts for invalid password attempts
- improved trap handling
- increased size of email fields – 250 max now
- many new trendable fields
  - **Outlets**
    - Power min, max, ave
    - Load min, max, ave
    - Voltage min, max, ave
    - ApparentPower ave
    - CrestFactor ave
    - PowerFactor ave
    - Capacity ave
  - **Infeeds**
    - Power min, max, ave
    - Load min, max, ave
    - Voltage min, max, ave
    - ApparentPower ave (PIPS)
    - CrestFactor ave (PIPS)
    - PowerFactor ave (PIPS)
    - Capacity ave
  - **Temp Humid**
    - Temperature min, max, ave
    - Humidity min, max, ave
  - **System**
    - WattsPerUArea ave
    - TotalPower min, max, ave

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Subject to change without notice

- trends show max and min values with the trend lines
- Any number of trends can be added to one graph
- The trend is now an image, and now can be saved and sent as an attachment to email – right click the image for the list of browser options
- SNMP polling is more efficient with a little less network traffic
- the system can now be configured to use Celsius or Fahrenheit in its displays
- the system can now be configured to use Square Meters or Square Feet in its displays
- support for CS 18 added

### ***Deprecated:***

- ODBC interface – The API above replaces the functionality of this feature, and this will only be supported until the next major release.

### ***Discontinued or Removed Features:***

- trends no longer show information on individual points when hovered over – trends are now images generated from the server
- data is trended in an industry standard way, individual points are no longer tracked – this is the cost of the vast amount of data we would need to track.

### ***Major Issues resolved:***

- Slow or unloadable trends
- unmanageable growth of data log tables
- Ampersands in CDU data breaking SPM

## ***4.2 March Patch RC 4 (04-20-10)***

### Bug Fixes

- |       |   |
|-------|---|
| #923  | Parent locations reporting incorrect Temperature            |
| # 946 | Backup completes each day when schedule set to NONE         |
| #962  | Devices incorrectly being reported as a status/reason “N/A” |

## ***4.2 March Patch RC 3 (03-30-10)***

Adjustment – The patch upgrade will not perform all Ubuntu OS level Debain patch upgrades just like the main upgrade package does.

Enhancement – Trap forwarding added

Bug Fixes

- #949 Postgres and SPMDM process using too much CPU process
- # 950 Cabinets in a location grouped wrong on several reports
- #755 Remove extraneous “The device is normal” logs
- #956 SNMP error log typo

## ***4.2 March Patch RC 1 (03-30-10)***

Adjustment- The copyright was changed to reflect the inclusion of 2010

Bug Fixes

- #807 Energy report calculation issue
- # 831 View Page: editing cabinets displays two icons for one cabinet
- #851 View Page: editing cabinets displays extra CDU icons
- #852 Users in the View permission group can't see anything on the outlets page
- #877 Handle CDU names with parenthesis () in them
- #866 SSH does not work on some systems
- #916 Hostname not displayed on settings tab
- #818 Do not allow a blank hostname
- #859 Manual Add Device TYPE selection is not big enough
- #817 Display view items – temperature labeled incorrectly
- #910 Environmental monitors - error msg incorrect for wrong SNMP settings

## ***4.2 Patch (01-04-10)***

Adjustment- Support for the CS-18 added

## ***4.2 December Patch (12-18-09)***

### Bug Fixes

- #804 Remove Infeed Capacity from trend list
- # 805 Remove Outlet Capacity from trend list
- #806 XML output for some trend types does not work
- #814 Energy Reports Fail to log after one day
- #816 Can't report on one day

## ***4.2 Patch (12-03-09)***

Adjustment- #793 Outlet trends not working

### Bug Fixes

- #794 Scheduled backups did not run