Server Technology
Technical Data Sheet

Sentry® Power Manager
SPM version 6.0 with API and Hub-and-Node options

November 2015 | Version 2.0

The Server Technology® SPM is an appliance-based (server or VMware) system designed to provide a single-point of access and monitoring for one or more data centers full of cabinet PDUs (CDU®s). SPM includes extensive browser-based GUI features for direct access to power and environmental information, and can be used as "middle-ware" to another system through use of the optional API. For very large data center networks, the optional Hub-and-Node architecture provides localized data gathering and access control while providing global configuration management.

Server Technology
Quality Rack Power Solutions

Custom NOC Views

Create home-login and alternate views on a per-user basis to provide convenient monitoring of relevant data points within the system. Create a slideshow to cycle Views within the NOC

Auto-Discovery

Server Technology CDUs are shipped ready to be identified by SPM and brought into the system and configured automatically

CDU Configuration

Update names and alert thresholds individually or in groups. Use Server Technology's unique SNAP feature to push security, access, and firmware update settings to the CDU

Aggregation Devices

Raw data from the CDUs in the form of infeeds and outlets can be tied together as Cabinet Devices, Zones, and Circuits as they represent the physical power infrastructure architecture

Reports

Numerous data reports in a variety of formats inform data center personnel. These include billing, carbon-footprint, cabinet redundancy check, U-space check, energy used, and many more

Trends

View, print, and email graphical trends of all metrics to review min/avg/max levels, predictive analysis, and alarm breaches. Overlay different time periods such as this month with last month, or overlay different metrics such as power and temperature for advanced analysis

Logs

Traceability is maintained with logging of discovery, user login, user actions, and alarms. Syslog support, SNMP trap forwarding, and email notifications expand that record-keeping functionality

Scheduling

Take control of power usage with scheduled outlet control actions. Discover new CDUs whenever they are installed. Send relevant reports and trends via email to those who need it most, when they need it

Access Control

Secure access to particular segments of the data center and/or keep particular actions from occurring without authority using the extensive integral access rights authenticated locally, or against LDAP or TACACS+ servers. Upload your own SSL Certs for added security

Specifications

Appliance Specifications – Basic Model
 • Form Factor: 1RU
 • Processor: Intel Core Duo 2.33GHz
 • Memory: (1) x DDR2 2GB
 • Storage: (1) x 1000GB
 • Ports: (2) x Ethernet, (2) x USB 2.0, (1) x VGA, (1) x DB-9 serial, (1) PS2 mouse, (1) x PS2 keyboard
 • Power Draw: 50W max

Appliance Specifications – Redundant High-Performance Model
 • Form Factor: 1RU
 • Processor: Intel Xeon E3-1230v3 3.3 8M
    4C/8T LGA-1150 Box
 • Memory: (4) x 4GB PC3-12800 ECC/Unbuffered
    STD DDR3 1600 Samsung
 • Storage: (2) x Seagate Savvio 10K.6 600GB
    6-Gb/s SAS 2.5in 64MB
 • RAID: Adaptec 6405E RAID
     SAS 2.0 4PT INT PCIE LP
 • Ports: (4) x Ethernet, (1) x IPMI, (4) x USB 3.0, (1) x VGA, (1) x DB-9 serial
 • Power Draw: 100W max

VMware Requirements
 • Format: 64-bit virtualization required on VMware Server 7 (runs on vSphere 4 & 5, and ESXi 4 & 5)
 • Alternate Format: 64-bit virtualization required on VMware Player 3.x
 • (1) x network port, [connect at power on], [automatic MAC address], [adaptor=E1000]
 • 250GB storage space (can be thin provisioned)
 • (2) x processor cores at 2.3Ghz+, minimum
 • 2GB RAM, minimum

Network Requirements
 • Port 161 & 162 open for SNMP communication to monitored devices
 • Port 443 open for SSL communication to Server Technology SNAP enabled CDUs
 • Port 21 (FTP), 22 (SSH), 23 (Telnet), 80 (HTTP) for access to SPM as desired
 • Port 26 (SMTP), 49 (TACACS+), 389 or 636 (LDAP) as desired

Compatibility for Power and Environmental Monitoring
 • Server Technology Smart, Switched, Smart POPS®, and Switched POPS® CDUs, firmware v5.3 or higher
 • APC Metered, Switched, and Metered-by-Outlet PDUs, firmware v3.5 or higher
 • Avocent ACS 4, 5000, 6000; PM1000, PM2000, PM3000 series PDUs
 • Baytech MMP, MRP, MSP series PDUs
 • Chatsworth eConnect
 • Cyberswitching Dualcom series PDUs
 • Eaton ePDU Managed and Monitored (various)
 • Geist EM40, EM8, RCM, RCMO, RCU, RCUO, RSP series PDUs
 • Liebert MPX/MPH
 • Raritan PX and PX2 series PDUS, firmware v2.1 or higher
 • Schleifenbauer Gateway
 • Tripp Lite PowerAlert
 • Other rack/cabinet PDUs may be available – contact your Server Technology representative
 • RF Code Zone Manager (optional SPM-RFC license key required)
 • Custom Device Template for monitoring other SNMP-based power devices (optional SPM-CDT license key required)

Web Browser Support
- Microsoft Internet Explorer 7.0 or later
- Mozilla Firefox
- Google Chrome
- Apple Safari
- Opera

API (optional) Specifications
- Part number for license key: SPM-API
- Representational State Transfer (REST) support
- Simple Object Access Protocol (SOAP) support
- Services: Most objects are available for data retrieval and setup. Contact your Server Technology representative for details
- Third-party API integrations: BitFit, Cisco IT 360, Cormant CableSolve, CrestPoint Solutions FM&E, FieldView Solutions, Integrated Building Solutions IBIS, Nlyte, Siemens WinPM.Net, Trackit Solutions

Warranty: Server Technology offers a standard 2-year limited parts & labor warranty. Extended warranty not available on the SPM server appliances. See the Support Options on the website, or contact your local Server Technology representative for more information.

Patents: Information on Server Technology patents is available on the website at:

www.servertech.com/products/patents

HDOT, PIPS, POPS, CDU, Sentry, Server Technology, the ST Eye logo, and the globe logo are U.S. registered trademarks of Server Technology, Inc. Power Pivot, EZip, StartUp Stick and PRO2 are trademarks of Server Technology, Inc.

Information in this document is current as of time of publishing. Contact your Server Technology representative for the most up-to-date information. © 2014 - 2015 Server Technology, Inc.

Server Technology

HEADQUARTERS - NORTH AMERICA
Server Technology, Inc.
1040 Sandhill Drive
Reno, NV 89521
United States
1.775.284.2000 Tel
1.775.284.2065 Fax
sales@servertech.com
www.servertech.com
www.servertechblog.com

Western Europe, Middle East and Africa
Server Technology
Fountain Court
2 Victoria Square
Victoria Street
St. Albans
AL1 3TF
United Kingdom
+44 (0) 1727 884676 Tel
+44 (0) 1727 220815 Fax
salesint@servertech.com

Central Europe, Eastern Europe and Russia
Niederlassung Deutschland
Server Technology LLC
42119 Wuppertal
Germany
Tel: + 49 202 693917 x 0
Fax: + 49 202 693917-10
salesint@servertech.com

APAC
Server Technology
Room 2301, 23/F, Future Plaza
111-113 How Ming Street,
Kwun Tong, Hong Kong
Direct line: +852 3916 2048
Fax Line: +852 3916 2002
salesint@servertech.com