

Avocent® Rack Power Manager (R1.5)

Monitor, Measure and Manage Power Consumption from Socket to Rack to Data Center

Features

- Unified, secure rack PDU power monitoring and management
- Location independence activity:
 - Network based monitoring
 - Remote power control
 - Distributed threshold data, unified aggregate reference
- Appliance management and firmware distribution as Scheduled or On-Demand task
- Bulk Rack PDU configuration
- Session log, report and archive
- Historical collection and archive
- Shared the Avocent DSView™ management software data center model
- Socket granular management
- User-defined groups (socket or whole rack PDU) enables discrete management and report activity
- Power Control (on, off, recycle) for socket, RPDU or Group as Scheduled or On-Demand task
- Hub-and-spoke architecture
- Authentication via LDAP, active directory, NT domain, TACACS+, RADIUS or RSA SecureID; web secure 2048 SSL certificate
- PCI Compliance

Benefits

- Enable professionals to monitor manage power from anywhere
- Power appliance and rack PDU management – balanced usage
- Appliance firmware releases managed consistently
- Activity logging for full operational accountability
- Flexibly restored history archive for retrospective reporting
- Instantly implemented power definition via the Avocent DSView™ software data center model
- User defined groups to manage and report specific usage (chargeback, load balance, etc.)
- Architected for business continuity
- Secured via site authentication and web certificates

Business Challenges

For data center professionals challenged with meeting their SLAs, unified management of power consumption is fundamental. Unmanaged power consumption, cost and load balance leads to inefficiencies and structural bottlenecks, ultimately, increasing business continuity risk through service interruption. Some common scenarios include:

- Poor monitoring and management as well as unchecked power consumption leading to infrastructure vulnerability and business continuity risk.
- Rapidly changing data center configuration with variable power and thermal impact leading to delayed, inefficient and uninformed service response.
- Inconsistently measured power consumption and heat generation history leading to inferior baseline metrics and poorly correlated rack density impact evaluations.

Solution Overview

Avocent® Rack Power Manager helps the professionals of data center operations teams overcome these challenges by providing the ability to measure and manage power consumption, costs and trends from socket (single server) to the entire data center. It simplifies power and cooling management through a unified view, including remote power control for the full rack PDU or server outlet; as a single System of Record for Data Center Power Management. Through polled threshold inquiry of rack-level environmental values, the Avocent® Rack Power Manager empowers administrators with timely collected operational data enabling informed action on power usage efficiencies and data center availability. Through usage of existing on-network intelligent rack PDU investments and/or rack PDUs on-network via innovative Avocent appliances, the Avocent® Rack Power Manager delivers:

- Comprehensively monitored data center rack PDUs to provide notification on power and/or thermal threshold violation or hardware initiated event.
- Regularly collected rack PDU power and thermal data to provide a comprehensive baseline and forward timeline of operational performance and trends (socket to rack to data center) to deliver a rich knowledge base of rack PDU behavior.
- Reporting based on the rich knowledge base to deliver the correlated power and thermal outcomes on data center activity such as rack density initiatives.

As a logical extension to the Avocent DSView™ product family, the Avocent® Rack Power Manager is derived from a well-accepted industry solution –borrowing from production proven technology. It enables data center professionals with the knowledge to optimize power usage efficiencies and data center availability. The Avocent® Rack Power Manager offers a combined interface for the management of your rack PDU infrastructure allowing your team to tap their data center skills.

It offers data centers these capabilities:

- Insight for capacity planning
- Total reading on power usage for better efficiency
- Leverage your intelligent PDU investment via one centralized interface
- Allocate costs of power based on actual usage by department
- Determine what activities can be moved to off-peak times
- Avoid budget overruns by setting a maximum threshold of power usage
- Balance of power usage for better efficiency and appropriately cooled data center
- Preemptive notification and alarms for proactive power management

Avocent® Rack Power Manager (R1.5)

Monitor, Measure and Manage Power Consumption from Socket to Rack to Data Center

Specifications

Avocent® Rack Power Manager software (hub/spoke) minimum requirements

Operating System

- Microsoft Windows Server 2008 - 2012 (x64)
- SuSe Linux Enterprise Server 10 - 11(x64)
- RedHat Enterprise Server 6.4 - 6.5 (x64)

Hardware Requirements

Windows/Linux Dedicated Physical or Virtual Server (no resource sharing)

- One more more 2+ Ghz CPU
- 6+ GB RAM
- 250+ GB HDD

1 gbps/10 gbps LAN

Local or remote database

Browser Support

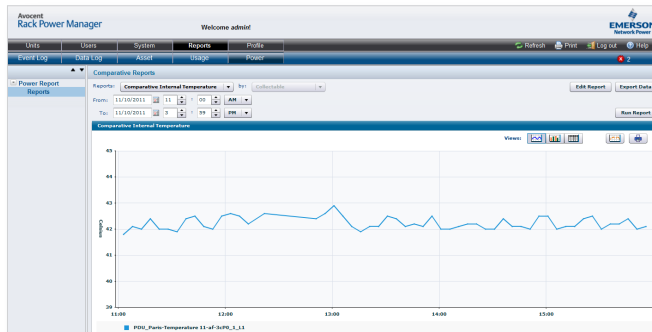
- Internet Explorer 9, 10, 11
(Windows operating systems only)
- Firefox ESR version 31
- Google Chrome 38

Power-Leveraged Appliances

- Avocent MergePoint Unity™ switches
- Avocent® ACS advanced console servers ACS 5000 and ACS 6000 appliances

Power Devices

- Power devices are supported on Avocent® ACS advanced console servers, Avocent® CPS, Avocent® CCM appliances and on all Avocent DSR™ and MergePoint Unity™ switches with SPC ports
 - Avocent® PM PDUs: PM 8, PM 10, PM 20, PM 1000, PM 2000 and PM 3000
 - Liebert® Rack PDUs MPH, MPH2, MPX **
- * Avocent® CPS and Avocent® CCM appliances do not support
** Rack PDUs only supported through Ethernet



Caption, caption

Third-Party Power Devices

- APC AP71xx, 78xx and 79xx series and AP8661, AP8941 PDUs*
- Server Technologies** Sentry Switched CDU CW-8H1, CW-8H2, CW-16V1, CW-16V2, CW-24V2, CW-24V3, CW-32VD1 and CW-32VD2 (supported models may change; contact Avocent Technical Support for current information)

* PDUs only supported through Ethernet

** Server Technology devices supported only through serial connections on the Avocent® ACS advanced console server and the Avocent DSR™ switch and Avocent MergePoint Unity™ switch

Supported Modems

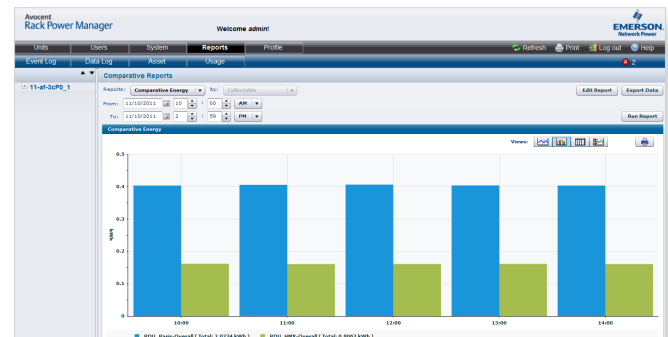
The following modems and serial PCI cards are supported by the Avocent® Rack Power Manager, provided the modems are supported on the Avocent® Rack Power Manager server operating system.

- MultiTech MT92345MI
- Digi Rapidport USB Modem
- US robotics 5686

New with the Avocent® Rack Power Manager R1.5

- Shared data center model with the Avocent DSView™ software R4.5
- Enhanced archive / recall, enabling current to historic performance comparisons
- Updated certification (Java 7, SMNP V3) and server OS (Windows Server 2012, RHEL 6.5)
- Updated browser support (Internet Explorer 11, Firefox ESR 31, Chrome 38)

The Avocent® Rack Power Manager is a unified solution that enables data center professionals to monitor and manage data center power consumption from anywhere.



Caption, caption

Emerson Network Power
EmersonNetworkPower.com

Emerson, Emerson Network Power and the Emerson Network Power logo are service marks and trademarks of Emerson Electric Co. Avocent, DSR, DSView and MergePoint Unity are registered trademarks of Avocent Corporation. All third party marks are the property of their respective owners. ©2015 Emerson Electric Co. All rights reserved. 0315-RPM-DS-EN