

## Nominee: Server Technology Inc.

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### **Nomination title: Server Technology's Sentry Power Manager for Data Center Power and Device Management**

The old adage you can't manage what you are not monitoring has never been more true than it is today but luckily solutions like Sentry Power Manager (SPM) are available. As power density continues to increase which in some cases means higher overall power usage within the cabinet and in some cases it means a greater number of devices within a taller cabinet; monitoring, management and control is critical to support uptime. SPM was created and designed with the users goals in mind based on real world input and applications.

#### SPM for Configuration:

When a powerful software tool like SPM is tightly coupled to an intelligent cabinet power distribution unit (CDU) great things are possible. Imagine the user having the ability to automate tasks that in the past have taken days to accomplish like CDU configuration or FW upgrades now only take minutes, via the push of a button and either done immediately or based on a schedule that the user sets. This sets the stage for SPM as the first "plug and play" CDU power monitoring system.

#### SPM for Support:

Since the CDU can monitor all of the devices within the cabinet and anywhere from 40 to 60% of the power used within the data center is used by the cabinet this is a key area that can demand a lot of time and energy to support. Fortunately, SPM has features like a redundancy check that allows the operator to understand that if either in-feed were to fail (either as part of an outage or during normal maintenance) that a single CDU within the cabinet can or can't support the total load. This is accomplish via an easy to ready bar chart and email alerts when the cabinet is not redundant. Along with this feature is also power and environmental trending and reports. One unique area under trending is our predictive trending where the user can easily understand if a cabinet or location is going to exceed temperature or power thresholds and based on current growth/changes can predict the date and time that it will happen.

#### SPM Increase Efficiency:

There are several areas where SPM can help increase efficiency within the data center. In most facilities there is often a fairly large number of servers that are doing no useful work. The administrator can disconnect the network port and wait for their phone to ring but the end result can be a very unpleasant phone call. By looking at power consumption over time and per a specific type of server it becomes much easier to understand which device are performing useful work and the other devices can be taken out of service. Another amazing feature within SPM is our Circuits feature. Each branch circuit coming out of the remote power panel (RPP) is an in-feed to our CDU. These branch circuits may be single phase, dual phase or 3-phase circuits providing power within the cabinets. Our circuits feature ensures that not only the cabinet is load balanced when using 3-phase circuits but the whole circuit is balanced increasing overall power efficiency of the system. This is all done via an easy to read bar chart and alerts.

#### SPM Solves Real World Problems:

With SPM you can solve problems that seem simple like where do I have to power and cooling to install a new server without going out into the data center and looking in each cabinet. Or the ability to alert upper management about overall power usage by scheduling a report to be email out each month showing the overall power usage per location.

#### SPM plays well within your existing infrastructure:

SPM comes standard with an open application programming interface (API) that allows information from SPM to be shared with your building management system (BMS) or data center infrastructure management (DCIM) system. Allowing the great features and function for support and for other SPM users but still providing that single pane of glass view for all of the systems within your facility. Simple to create custom NOC views can be put on a viewing cycle to be shown within the NOC at specified time intervals.

### Why nominee should win

- Mass configuration of Server Technology PDUs through secure SNAP feature
- Easy to use for capacity planning, power and environmental monitoring
- Fits well within the existing data center architecture
- Solves real world problems with simple to setup and manage solutions
- Leverages the many benefits of the high cost intelligent CDUs within your data center facility