

BENEFITS

- Receive a comprehensive view of power resource and utilization for easier management of the complete data center power system– from utility entrance down to the power distribution
- Gain complete awareness of the active power path and the status of all devices in that power chain using a dynamic, maintainable one-line diagram
- Understand the dependencies within the power system, aiding maintenance activity planning
- Use current and historical trends to make more accurate capacity forecasts and deployment plans
- Improve business continuity through documentation of the power system and connections

Colocations are required to provide reliable power to their tenants and with evolving needs and high growth of these facilities, uninterrupted power has never been more vital.

Colocation providers that want to ensure 24/7 availability of their operations have the monumental task of managing the power system and responding to the growth demands of IT. This involves understanding the power system interdependencies, efficiently managing capacity, and improving operational effectiveness and cost. As if the job was not hard enough, training the operations staff to manage these critical data centers and maintaining business continuity is another real challenge. Still, many colocations are not fully aware of the design of their power system nor have real-time visibility into system state or performance. Without this information, response to critical alarms is delayed which can lead to unplanned downtime. Enforcing availability and redundancy requirements during capacity planning activities proves to be difficult and time-consuming without detailed knowledge of the system.

The *Trellis*™ Power System Manager addresses these challenges for the colo through a comprehensive view of the data center power system from utility entrance down to rack power distribution, helping to manage responsibilities effectively.

The *Trellis* Power System Manager also features the dynamic one-line diagram where the operating state of all devices, as well as dependencies linked to them,

can be visualized in a single view. This allows the decision makers to make fast, informed decisions in response to alarms or changing conditions in the data center.

Also provided are dashboards which assist in forecasting power consumption and viewing the status of power sources and transfer devices for the colo.

With the *Trellis* Power System Manager, you can:

- View all power system capacity utilization using a dynamic one-line diagram
- Be aware of the active power path and status of each device in the power system
- Understand dependencies in the entire data center power system to know exactly what racks or devices will be affected by any failure and maintenance activity in the power system
- Access reports showing system capacity and utilization

Dynamic Electrical One-Line Diagram

- Understand current operating state of the complete power system through a one-line diagram; quickly identify and address potential issues and understand overall health
- Navigate from one-line diagram to device view, allowing you to see data center power both from a bird’s-eye view and under a magnifying lens
- Determine which devices or racks are dependent on a device using configured connections, allowing you to better plan power maintenance and perform risk assessments
- Create comprehensive downtime reports of cascading power failures by reviewing the historical operation of equipment

Capacity Reporting, Planning and Forecasting

- Ensure adequate power capacity of the complete power system is available during planning activities
- Forecast power consumption based on current and historical data; plan deployment based on data center capacity plans
- Map out dependency relationships of IT equipment to the power system; aid in risk assessments and enhance data center team coordination
- Adjust operating loads on equipment based on actual information to maintain service level agreements and increase efficiency—without worrying about availability
- Evaluate power system utilization through dashboards

