TRELLIS™ THERMAL SYSTEM MANAGER FOR COLOS

BENEFITS

- Maximize floor space revenue through increased density
- Track thermal improvements over time and document results
- Alarm management, notification, and thresholds for environmental sensors
- Optimize cooling temperatures to lower cooling energy costs
- Rack level metrics to balance cooling and the IT heat load
- Manage cooling units based on performance and efficiency
- View IT service processor information for added protection against downtime
- Monitor the cooling system and how it impacts day to day operations
- Monitor and analyze capacity to determine utilization, efficiency, and future planning

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Colocations face many challenges in managing their operations, but one of the biggest is tracking hot spots across the numerous rows and racks. On average, data centers produce four times more cooling than required to support the IT heat load. If colos don't have the appropriate tools, they can't confidently make improvements in airflow pathways, cooling unit utilization, inlet temperature and by-pass air so they can improve thermal efficiency. Managing the cooling requirements by even 20% can save hundreds of thousands dollars in reduced energy costs.

The *Trellis*™ Thermal System Manager module provides thermal management for the dynamic and complex colo data center environment. As part of the *Trellis* Enterprise Solution, this module provides monitoring, reporting and alarm management for the entire mechanical chain from chillers and cooling towers to CRAC and CRAH cooling units. Ever changing thermal patterns can now be managed to optimize efficiency without sacrificing reliability. In addition, with the *Trellis* Thermal System Manager module, colocations are better equipped to serve their customers through granular visibility. Use of this module helps prevent wasteful over cooling of the data center, and eliminate troublesome hot spots that consume support resources and increase the risk of downtime.

With the *Trellis* Thermal System Manager, colocations can safely adjust temperatures and fan speeds directly from the *Trellis* platform and monitor the effect in real-time. They can also decide, with assurance, which cooling units are inefficient and which are safe to eliminate or turn-off. By having this information, colos can drive down the energy usage, improve sustainability and lower your carbon footprint.

Find the thermal capacity you never knew you had

Thermal capacity for cooling units are not fixed and are dependent on mechanical inputs, environmental conditions; return air temperature, and even altitude. Using nameplate capacity for units is inaccurate and generates stranded capacity. *Trellis* Thermal System Manager allows you to unlock the true thermal capacity for your cooling units and data center. Colocations can reduce stranded thermal capacity and save money on expensive floor space, new equipment, and improved equipment placement planning to maximize their investment.

The *Trellis* platform supports a wide range of sensors including wireless, wired and rack PDU sensors. Colos can place sensors in the rack, under the floor, on the floor, or any critical area they need to monitor. This provides easy sorting of racks and sensors by temperature in a single view and makes it easy to monitor and track problem areas.

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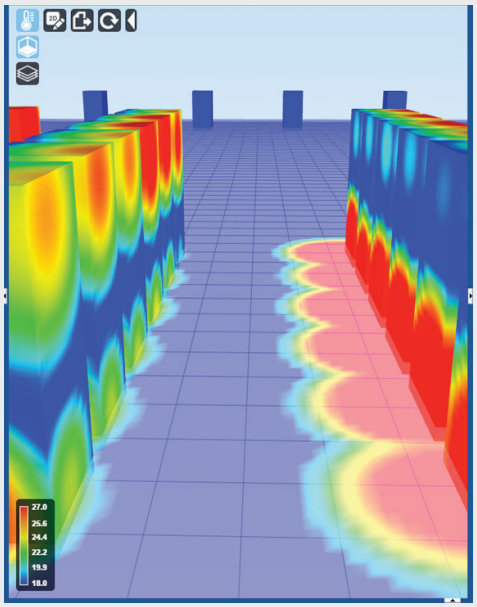
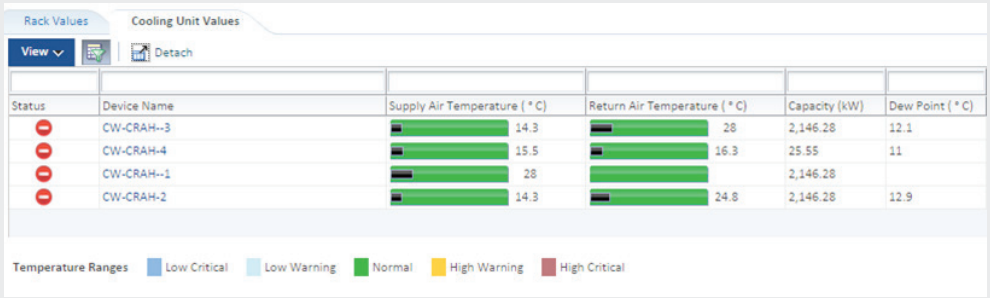
The *Trellis™* Thermal System Manager provides 3D visualization heat maps to:

- Increase productivity by quickly identifying the size and scope of thermal issues
- Quickly identify thermal issues to improve response times and make corrective action plans
- Print or save thermal maps to communicate thermal issues to staff, tenants, or management
- Support a variety of temperature sensors to quickly pinpoint the exact location and scope of any thermal issue
- Rotate, pan, zoom in and out of racks and rows for greater insight on thermal activity and quickly investigate or respond immediately to the exact location
- Customize the heat map temperature scale to match the data center thermal profile which gives control to meet the colos temperature requirements (not too hot and not too cold)
- Manage temperature sensors with the bulk threshold configurator
- Set global thresholds for inlet or exhaust sensors for SLA compliance

With *Trellis* Thermal System Manager, you can:

- Balance the available cooling capacity between IT devices and the facility
- Predict thermal capacity that balances total cooling production with the actual heat load at the room and rack level
- Understand the true thermal capacity for planning and redundancy, so as to reduce wasteful overcooling to lower energy cost
- Monitor rack level details and compare the temperature profile and heat load for each rack
- Bridge the gap between facilities and IT through managing the cooling chain from the mechanical system, rack, down to server
- Monitor and set threshold alarms for the service processor temperature inside critical IT devices for an added level of protection





VertivCo.com | **Vertiv Headquarters,** 1050 Dearborn Drive, Columbus, OH, 43085, USA