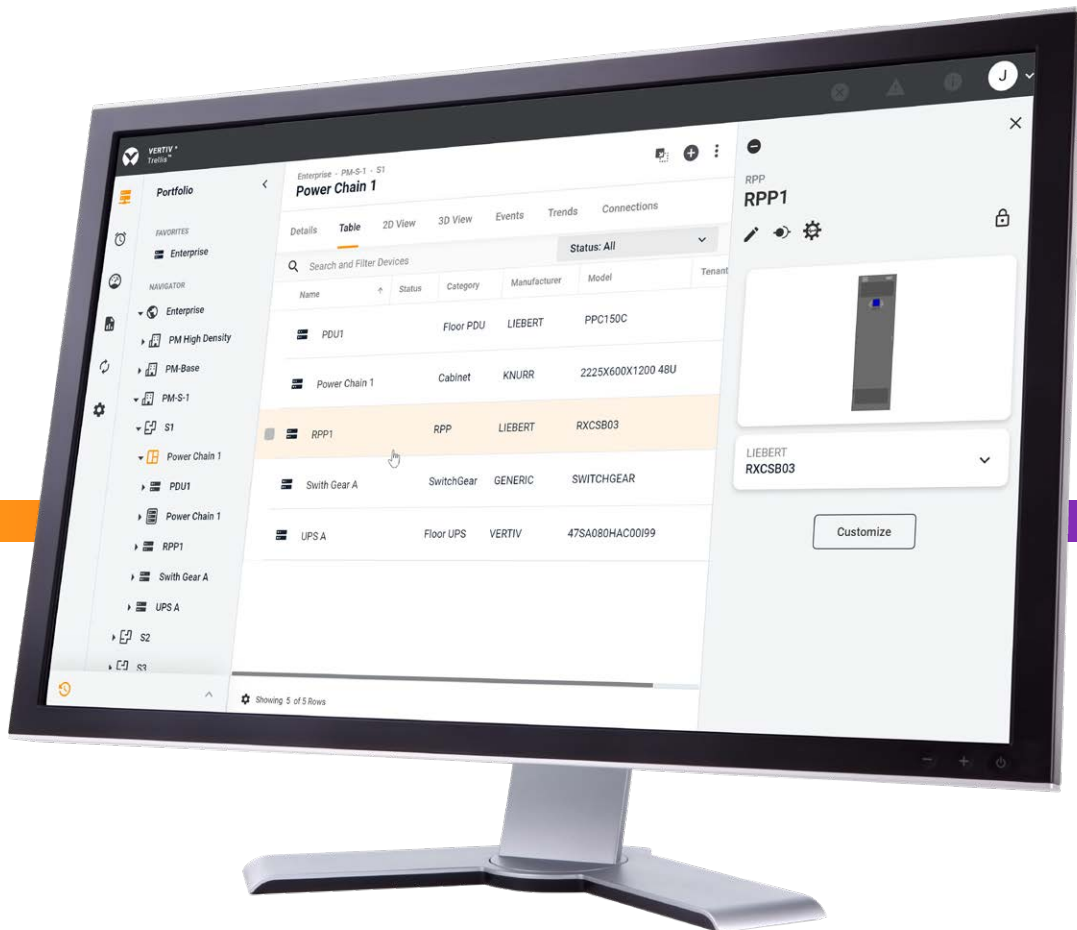




Trellis™ – Data Center Infrastructure Management (DCIM) Platform

Gain Powerful Infrastructure Monitoring and Asset Management Capabilities



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Data centers power modern business. Organizations are adopting hybrid cloud models and managing on-premises operations to meet their innovation, business growth, and data privacy and security obligations, among other objectives. Recently, the global move to remote and distributed work models has also placed increasing stress on data centers.

All of these trends combine to make the role of the data center more important than ever, whether they are on-premises or co-located. Your data center employees know that they must ensure uninterrupted power to key assets and monitor and manage them effectively to drive peak operational performance.

Vertiv™ Trellis™ is a unified, comprehensive solution to manage and monitor your data center infrastructure, including your assets, connections and energy use.

Trellis - Your Platform for Optimizing DCIM for Your Business

Whether your data center operations are large, small, remote or centralized, you need visibility, control and planning capabilities to support your business goals. The *Trellis™* platform provides you with the platform you need to optimize your infrastructure, adapt to your changing needs and evolve to adopt automation and software-defined management tools.

Trellis provides critical infrastructure monitoring and asset management capabilities that offer real-time visibility into data center performance, a single pane of glass to manage operations and automation to simplify and speed key processes.

Infrastructure Monitoring

To ensure 24/7 availability of company operations, data center managers need to understand data center power system design and interdependencies. With this information, they can maintain optimal equipment operations, improve operational effectiveness and reduce costs.

Trellis™ infrastructure monitoring provides a comprehensive view of the data center power system from the utility entrance down to rack power distribution. It also enables data center managers to view the operating state of their devices and their dependencies in a single view. This allows users to make fast, informed decisions in response to alarms or changing data center conditions. With monitoring, reporting and alarming, you can improve management of your entire mechanical chain from chillers and cooling towers to CRAC and CRAH cooling units. The *Trellis* platform supports a wide range of sensors, including wireless, wired and rack PDU sensors. Place sensors anywhere you need to monitor, using information to improve thermal management. Reduce stranded thermal capacity and save money on expensive floor space, new equipment and improved equipment placement planning.

Safely adjust temperatures and fan speeds from the *Trellis* platform and monitor the effect in real-time. Use this information to drive down energy usage, improve sustainability and lower your carbon footprint.

Asset Management

Data center stakeholders need to know exactly which assets, connections and capacity exist in their facility so they can easily make changes to boost performance. *Trellis™* Asset Management provides a set of graphical visualization tools that empower your infrastructure team to map out floor space and understand where assets are, who they belong to and how they are connected.

Manage your physical and virtual sets, connections and capacity and make the right changes. Remove unnecessary buffers and enable facilities to support all of the virtual load they can handle.

Collect and leverage a detailed catalog of all inventory to understand how much capacity (power, cooling, weight and space) is available and consumed at any point in the data center based on faceplate or de-rated values. View capacities at the floor or space level, inside any elevation (such as a rack) or inside actual assets (such as a blade chassis) with ease. Use these insights, as well as the ability to view assets through a timeline, to plan projects, track changes and avoid errors.

Trellis™ Intelligence Engine

Data center managers are eager to optimize energy utilization, while protecting vital assets. Reducing energy costs and driving productivity gains can help data centers increase their competitiveness, while maintaining compliance with regulatory requirements.

The *Trellis*™ Intelligence Engine is a software-only data collection engine for use with *Trellis*™ Site Manager. It helps your data center team view facility layout and asset utilization and collect and analyze real-time data on your data center's environmental conditions and power consumption, a feature that is ideal for data centers that have not yet properly instrumented for measuring facility and IT load. Data center teams can also configure and manage alarms, prioritizing them by importance.

Use the *Trellis* Intelligence Engine to automatically gather and analyze data and trends, gaining detailed insights into the status and health of your data center. Monitor your data center's power usage effectiveness (PUE) and data center infrastructure efficiency (DCEI), benchmarking against industry wide metrics such as The Green Grid.

The *Trellis*™ Intelligence Engine:

- Monitors up to 50,000 data points per minute
- Provides a customizable dashboard, which can be used to exclude facility loads in mixed-use facilities
- Can be installed on either RedHat 7.4 – 7.8 Enterprise edition 64 bit or Ubuntu Server 14.04 LTS or 18.04 LTS
- Supports service processor and BMS system monitoring
- Can be installed on a virtual machine with either VMWare or HyperV
- Functions without a universal management gateway

Infrastructure Monitoring Benefits

Extensive Insights

- Gain a single view of power resource and use across your facility and equipment
- Monitor the power chain for better situational awareness of device power
- Use power chain insights to plan proactive maintenance
- Harness historical and current data to forecast capacity, deployments, and budgets
- Improve business continuity with better documentation

Granular Controls

- Monitor and optimize cooling to improve device performance and efficiency and costs
- Use 3D visualization heat maps to identify and respond to thermal issues
- Gain instant alerts via environmental sensors to respond swiftly to issues
- Track thermal improvements over time and document results

Asset Management Benefits

- Use a digital tool to eliminate spreadsheets, Visio diagrams or physical searches
- Maintain one comprehensive view of inventory that is fully searchable
- Find asset information quickly using the tool's rich search functionality
- Understand which data center capacities exist and their current usage level
- Provide highly accurate information for decision making
- Simplify both IT and facilities management
- Eliminate errors due to incorrect or incomplete asset information



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