

6 Ways Vertiv Makes Managing Your Networking Environment Easier



A Vertiv Application Brief

Overview

As content delivery and data collection move closer to users and devices, network locations are expanding in number, capacity and criticality. These distributed IT sites form a critical link between centralized data centers and remote users. But because of the sheer number of sites, deploying and supporting equipment at the edge is a challenge. Vertiv is here to help.

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Challenge #1

Harsh conditions in edge environments can cause device failures. If your environment is deployed in an unconventional location that is not designed for IT, controlling the temperature can be difficult.

Solution:

Designed to thrive in unconventional environments, the Vertiv™ Geist™ Upgradeable Rack PDUs are designed for up to 60°C (140°F) conditions, delivering critical power and minimizing the chance for downtime caused by hot operating environments. Integrated monitoring of temperature and power usage provides proactive alerts when issues arise and allows for graceful shutdowns and the transfer of computing loads.

Challenge #2

When power interruptions occur, IT equipment is affected, in many cases causing injury to equipment, data loss, and business disruptions. Generators may be in place, but are not a stable power supply. Spikes and surges can cause unprotected IT equipment to experience internal component failures and lead to complete equipment failure because they are not designed to accept these power conditions.

Solution:

The Vertiv portfolio of on-line Uninterruptible Power Supplies (UPS) - including the single-phase Liebert® GXT5 and Liebert® APS - deliver continuous, high-quality power with zero transfer time, providing the highest level of electrical protection for high performance IT equipment.

Challenge #3

Commissioning appliances located across wide geographical areas within a dynamic deployment schedule can be difficult to manage.

Solution:

The Avocent® ACS 8000 features Zero-Touch Provisioning, custom Python user scripts, and a full-featured REST API that make it quick and easy to bring up new sites. This allows for powerful self-configuration as well as integration into 3rd party management tools.



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Challenge #4

Network switches, load balancers and routers typically sit at the top and back portion of the rack, away from the cold aisle airflow at the front of the cabinet. This placement makes it difficult for cold air to flow from the front of the rack to the air intakes of the network switch equipment, increasing chances of failure over time due to consistent operation above the recommended temperature range.

Solution:

Install a Vertiv™ Geist™ SwitchAir™ to help prevent premature network equipment failure. The SwitchAir provides a path for cool air to flow from the cold aisle to the air intakes of critical network equipment regardless of where it is mounted in the rack.

Challenge #5

Network performance issues or disruptions often mean administrators do not have in-network access to equipment such as the Cisco 4000 ISR router and ASA 5000 firewall.

Solution:

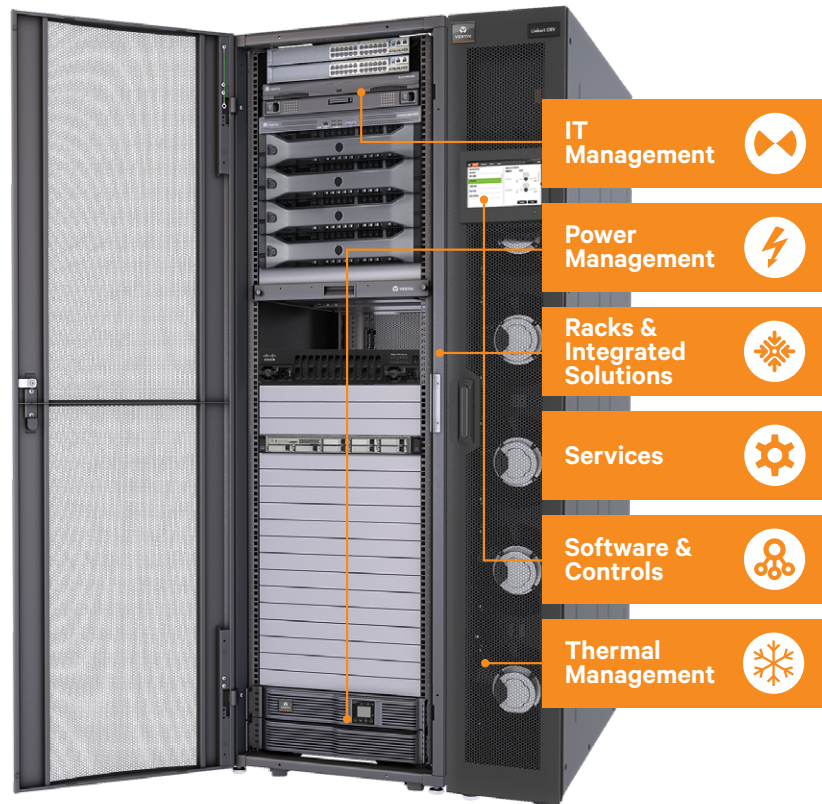
Reliable and varied connectivity options are a must for both daily network management and for emergency scenarios. The Avocent® ACS 8000 boosts out-of-band access, using one of the many available methods such as Gigabit Fiber or Cellular modem, along with “rock-solid” serial console connections ensure constant, reliable access to network appliances.

Challenge #6

When IT equipment fails or locks up, sending out a technician requires time and money, and sometimes scheduling can become a headache.

Solution:

An intelligent PDU with remote outlet level switching capabilities. The Vertiv™ Geist™ Switched Rack PDU enables users to remotely turn-on and turn-off individual outlets to power cycle unresponsive equipment from an easy to use web interface from any computer connected to the same network. It also provides comprehensive alarming capabilities including notification of overloaded branch circuits, notification on the loss or removal of individual rack equipment load, and the ability to add sensors to monitor environmental conditions.



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