VERTIV™

Supporting the technology-enabled classroom:

Vertiv
In Education

DIGITIZATION IN THE CLASSROOM

A more interactive learning experience

- Virtual reality, Augmented Reality and Makerspace in the classroom are redefining how students' learning experience, becoming more interactive and personal.

- Mobile learning, or "learning across multiple contexts, through social and content interactions, using personal electronic devices," also allows students from different locations to attend classes remotely via virtual classrooms.

- This poses a challenge to the traditional bricks and mortar educational approach and is driving institutions to innovate to thrive.

The Future of Adaptive Learning

- Big data and intelligence to drive personalized education for students.

- Courses are tailored according to the personal needs and requirements of each student.

- This is supported by BYOD, where gadgets formerly considered as "distractions" are now considered "learning supplements."

Data Security and Sovereignty

- As more personal student information is stored online, data security and protection become imperative.

- As Asia becomes a global hotspot for technology startups, IT education becomes integral.

INFRASTRUCTURE CHALLENGES

Targeted Learning through Next-Gen Technologies

What is Happening?
- Schools are now collecting more data about their students than ever before
- Data is being used to track student performance and to measure personal development
- The increased use of data leads to increased risk in protection and sovereignty

What does this mean for you?
- IT managers must ensure that sensitive student data and information are protected against cyber attacks and other threats
- The school's IT assets must be protected in its entirety, from hardware to software

What does this mean for your infrastructure?
- On the data center level, assets must be protected through centralized monitoring for insight, security and ease of management

Managing The Complex campus Network

What is Happening?
- A typical campus would have multiple buildings – all connected to the same network
- An IT manager would be responsible for IT Availability in the entire campus
- As IT is not the main business of educational institutions, normally there is only a small IT team

What does this mean for you?
- The IT manager would need visibility, access, control and management of all of the IT assets spread throughout the campus – all from his office

What does this mean for your infrastructure?
- Tools are needed to provide visibility of all the IT assets from a single location

Data Protection and Security

What is Happening?
- Schools are now collecting more data about their students than ever before
- Data is being used to track student performance and to measure personal development
- The increased use of data leads to increased risk in protection and sovereignty

What does this mean for you?
- IT managers must ensure that sensitive student data and information are protected against cyber attacks and other threats
- The school's IT assets must be protected in its entirety, from hardware to software

What does this mean for your infrastructure?
- On the data center level, assets must be protected through centralized monitoring for insight, security and ease of management

VERTIV CORE TO EDGE SOLUTIONS

SmartCabinet™

Self-contained, pre-configured, pre-engineered and factory tested infrastructure solutions for data centers and telecom networks.

Features:
- Fully integrated
- Dust protection and noise insulation
- Highly Efficient
- Fast deployment
- Central Management

SmartRow™ 2

Vertiv™ SmartRow™ 2 brings an innovative approach to efficiently integrate and manage distinct systems namely, Power and Distribution system, Thermal Management, System Security, Comprehensive Interface, Cable Management, and other pertinent aspects.

Features:
- Efficient Cooling Architecture
- Demand-Driven Deployment
- Intelligent Monitoring and Management System
- Accessibility, Management & Secure

SmartAisle™

Liebert SmartAisle is a combination of the most advanced innovations in data center with the simplest self-assembled integrated design that is tailor-made to fit and perform in your white-spaces surpassing your expectations.

Features:
- Power Distribution System
- Modular Construction
- UPS System and Precision Cooling Units
- Support Utilities and Cable Management
- Remote Monitoring
- Advance Touch Screen Display Controller

Avocent® HMX High Performance KVM Systems

The Avocent HMX Digital High Performance KVM system is designed for organizations that need to provide workers the ability to seamlessly access and share one or more computing resource(s) which are physically separated from their work environment. This solution provides users an "at-the-desktop" experience from their work stations to any appliances, PCs or computing resources attached to the HMX IP network

Features:
- Eliminates Distance Limitations within the LAN
- High-Quality DVI Video and Digital Audio
- Centralized Management
- Centralized, User-Rights Management
- Greater Security
- No Dedicated Cabling
- Digital DVI Video
- USB Support

Avocent® Switchview™ Series Desktop KVM Switches

Feature-rich desktop KVM, designed to streamline the desktop experience and enhance user productivity. Supports dual monitor, DVI-I, Display Port 1.2 or HDMI 1.4. Provides easy connectivity to external USB devices, quick data transfer and high-speed charging of mobile devices.

Benefitts:
- Increase productivity with simple, rapid access to systems and peripherals
- Gain true image reproduction and display flexibility with support for ultra HD systems and mobile devices
- Reduce costs with fewer peripheral purchases and easier IT maintenance

Avocent® DSView Management Software

Avocent DSView software is the single-rack view needed for all your servers, embedded technologies, network equipment and power devices.

Features:
- Unified, secure "hands-on" control o remote infrastructure
- Location independence activity:
  - Triage, diagnostics and root-cause analysis
  - Disaster recovery
  - SLA Management
  - Application usage
- Control blade & virtual servers and service processors
- Native host KVM web interface
- SSH/Putty/HTML5 serial interfaces
- Session log, report and archive
- Data Center Zone definitions

- Schedule and on-demand firmware management
- Logically bridges virtual media to remote infrastructure
- Hub-and-spoke architecture
- Out of box authentication
- Web secure 2048 SSL certificate
- Two factor authentication
- HTML5, ActiveX and Java KVM session viewers available

Vertiv™ Environet™ Alert

Vertiv™ Environet™ Alert provides industry companies with critical facility monitoring software that is affordable and easy to use. This solution delivers superior monitoring, alerting, trending and data organization capabilities for companies in such verticals as healthcare, financial services, government and more, helping them protect and grow their business. Customers get monitoring, alerting and trending at a price that's right for their business.

Features:
- Is a vendor-neutral solution
- Provides a modern user interface (UI), enabling complete user flexibility and control
- Integrates via an API
- Provides powerful real-time monitoring, alarming and alerting
- Delivers reporting, graphs and simple dashboards
- Integrates with any SNMP device

- Is high-availability-ready
- Enable trap recipient and threshold alarming
- Offers a customizable data visualization and flow
- Is multi-site and global deployment-ready
- Enables grouping and "collections" for user-customized data

MELBOURNE UNIVERSITY

Overview
Vertiv installed Liebert® EC Fans to the University's CRAC units, which lead to significant energy reduction of as much as 70%. The EC Fans delivered the same cooling performance to the IT infrastructure, but with reduced input power consumption and related cost savings.

Vertiv Solution
- Liebert® EC Fan Upgrade

MONASH UNIVERSITY

Overview
After experiencing outages due to water leakage in its data centre, Monash University opted to install the Trellis™ Thermal System Manager. The Trellis™ platform enabled the university to centrally monitor their entire infrastructure from one portal, identifying and solving problems at the onset, leading to increased efficiency in performance.

Vertiv Solution
- *Trellis™* Thermal System Manager

UNIVERSITY OF CAMBRIDGE

Overview
With more than 200 server rooms located around the campus across 120 departments, Cambridge University constantly found itself on the cutting edge of research, but facing challenges when it came to designing and running an integrated Data Centre Estate. With the help of Vertiv's Trellis™ Platform, the University was given greater visibility into the full scope of its operations. And the better they could monitor what's happening, the better they could control it.

Vertiv Solution
- *Trellis™*

RESEARCH UNIVERSITY IN MALAYSIA

Overview
Amid its growing student population and the need to innovate, the University sought to upgrade its data center. Vertiv's fault-tolerant UPS systems provided high-availability power to the university's data center, supporting mission-critical servers that support the school's IT needs.

Vertiv Solution
- Liebert® NX
- Liebert® PEX
- SiteScan Monitoring System

VertivCo.com