Singapore University of Technology and Design

An intelligent campus with an innovative, secure, and unified network

"High performance, reliable Wi-Fi and integrated security to keep data consumption and exchange safe among students and faculty is our top concern and the Alcatel-Lucent Enterprise solution helps us to deliver this."

Ang Lek Han, SUTD Director of IT

The Singapore University of Technology and Design (SUTD) is the fourth autonomous university in Singapore.

SUTD's vision is to be a leading research-intensive global university that focuses on all elements of technology and technology-based design. To support this vision, SUTD required a state-of-the-art infrastructure showcasing innovation and creativity in technology and design.

CHALLENGES

SUTD wanted to create an intelligent campus with education solutions that empower personalized learning with secure, reliable communications and collaboration. Their network needed to enable secure campus connections for students and faculty from anywhere, anytime, and on any device. They required smooth digital content delivery to their students and teaching staff to simplify day-to-day operations, and allow IT staff to focus on the core business.

ACTION

Alcatel-Lucent Enterprise solutions provide network access that's completely independent of location, devices, and media. By implementing virtual chassis' at all layers, and using patented ClientMatch technology, improvements were made in the network performance and resiliency. AppRF technology – capable of differentiating applications – was used to enhance visibility and control.

PRODUCTS AND SERVICES

Alcatel-Lucent OmniAccess® Mobility Conductor
Alcatel-Lucent OmniAccess WLAN 4550 Mobility Controllers
Alcatel-Lucent OmniAccess WLAN 4650 Mobility Controllers
Alcatel-Lucent OmniAccess AP535 Wireless Access Point
Alcatel-Lucent OmniAccess AP505H Wireless Access Point
Alcatel-Lucent OmniAccess AP515 Wireless Access Point
Alcatel-Lucent OmniSwitch® 6900 Stackable LAN Switch
Alcatel-Lucent OmniSwitch 6860E Stackable LAN Switch
Alcatel-Lucent OmniSwitch 6450 Stackable Gigabit Ethernet LAN Switch

TECHNICAL BENEFITS

- **Eliminate the need for planned maintenance windows** using live upgrade and multiple version support that can be upgraded alongside active user sessions
- **Optimize network utilization** during peak periods and maximize availability during unplanned outages with hitless failover and automated load balancing
- **Monitor wireless performance** with Northbound API that allows SUTD to develop their own applications

FINANCIAL BENEFITS

- **Save cost on licenses** using licensing pools
- **Eliminate downtime and reduce costs** using live upgrade and multiple version support

USER EXPERIENCE BENEFITS

- **Seamless Layer 2 and Layer 3 roaming** between floors, buildings, or across the entire network without re-authentication, change to IP address, or loss of firewall state
- **Enhanced Wi-Fi security** with WPA3 provides stronger encryption and authentication methods

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Customer Story

MARKET: EDUCATION

DEAL IMPLEMENTED: JUNE 2018

COUNTRY: SINGAPORE

NUMBER OF USERS: 33,000+

COMPANY:

SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN