Future-Proofing New Zealand Schools: An Advanced Network Solution for the Ministry of Education

The Ministry of Education in New Zealand gets cutting-edge performance and technology for its School Network Upgrade Project, with an advanced Allied Telesis solution.

**Challenge**
In 2005, the New Zealand Ministry of Education (MoE) launched the School Network Upgrade Project (SNUP), to subsidize and manage the internal IT networks of New Zealand’s state and state-integrated schools.

SNUP was a foundational ground-up approach and was implemented to make optimal use of the Government’s ultra-fast broadband fiber network. The primary focus for SNUP was to upgrade schools ICT infrastructure to enable them to connect to the fiber network. In latter years wireless was included as in scope for SNUP.

The Wireless School Network Upgrade Project was eventually introduced to ensure that all schools that had not received wireless in the early stages of SNUP were upgraded.

**Solution**
The MoE chose Allied Telesis—over strong competition from a number of industry lead players—to provide LAN switching across all 2,500 schools over five years. Our skill base and technical expertise allowed the MoE to implement a very simple network design which required minimal ongoing changes and support. The MoE deployed Allied Telesis enterprise-grade LAN switches, for core and edge requirements across a wide variety of different school sizes and locations.

**Success**
Allied Telesis switching network is now in almost every school in New Zealand. Allied Telesis networks are designed to provide a simple solution for schools of all sizes, with expert support for peace-of-mind networking. Thanks to Allied Telesis and SNUP, New Zealand’s schools now enjoy robust, cutting-edge networking, able to receive the full benefits of the Government’s investment in and ultra-fast broadband. The new network is designed to support today’s learning, and has the built-in flexibility to meet tomorrow’s demands.

**Completion**
The completion of the SNUP program is an important milestone for New Zealand schools. It truly allows a whole new level of education for the nation. Technology is central to the learning and teaching process with devices like tablets, interactive whiteboards and mobile learning becoming mainstream. They’re not only educational, but have implications beyond the classroom to shape the curriculum and syllabus.
Success Story | Ministry of Education, New Zealand

With the growing adoption of e-learning and wireless, the pressure on the network is only set to increase. In particular, SNUP infrastructure and Allied Telesis LAN switching is the foundation of a number of e-learning and digital fluency initiatives.

All of these initiatives come back to the strength, reliability and efficiency of a school’s IT infrastructure, and this has been supplemented by the Allied Telesis Autonomous Management Framework™ (AMF) technology which provides the added bonus of centralized, cost-saving change and configuration management.

Ultimately SNUP means schools can embrace digital trends like Bring Your Own Device (BYOD), e-learning and unified communications such as VoIP and security CCTV surveillance systems. Additionally, they’re future-proofed for upcoming technology like Software Defined Networking (SDN), which is central to much needed STEM capabilities like coding, electronic circuitry, robotics and Internet of Things (IoT).

*Source: https://educators.co.nz/story/future-technology-schools/

Keynote Products and Services

**Allied Telesis Autonomous Management Framework™ (AMF)**
AMF is a sophisticated suite of management tools that provide a simplified approach to network management. Common tasks are automated and every-day running of the network made extremely simple. Powerful features like centralized management, auto-backup, auto-upgrade, auto-provisioning and auto-recovery, enable plug-and-play networking and zero-touch management.

**AlliedWare Plus™**
The AlliedWare Plus fully-featured Layer 3+ operating system provides innovative features to deliver the performance and functionality even the most demanding environments require. Standout features include Active Fiber Monitoring™, Virtual Chassis Stacking (VCStack™), Virtual Chassis Stacking Plus (VCStack Plus™), Ethernet Protection Switched Ring (EPRing™) and IPv6.

**x610 Series Gigabit Layer 3 Stackable Switch**
With an extensive range of port-density and uplink-connectivity options, the x610 Series is a high-performing and scalable solution.

**x510 Series Stackable Gigabit Switch**
The x510 Series offers comprehensive resiliency, security and management features in a compact, highly-reliable package.

About Allied Telesis
For nearly 30 years, Allied Telesis has been delivering reliable, intelligent connectivity for everything from enterprise organizations to complex, critical infrastructure projects around the globe.

In a world moving toward Smart Cities and the Internet of Things, networks must evolve rapidly to meet new challenges. Allied Telesis smart technologies, such as Allied Telesis Autonomous Management Framework™ (AMF) and Enterprise SDN, ensure that network evolution can keep pace, and deliver efficient and secure solutions for people, organizations, and “things”—both now and into the future.

Allied Telesis is recognized for innovating the way in which services and applications are delivered and managed, resulting in increased value and lower operating costs.

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