

Fanling Lutheran Secondary School: Build Gigabit Campus Network with High Security



Campus Network Upgrade

Advantages

- Enhance the Speed of Data Transmission
- High Efficiency with Low Cost
- Reinforce Network Security
- Improve Campus Image

Fanling Lutheran Secondary School, an English grammar school operated in the Direct Subsidy Scheme mode, was founded in 1964 by the Evangelical Lutheran Church of Hong Kong to provide an excellent all-round secondary education in North District. In keeping with their mission statement, "Provision of Quality Whole-person Education, Service to Society and Testimony for Christ", the school cares, loves, respects and cultivating its students to grow healthily so as to enable them to become responsible, independent-thinking citizens in the future society.

Challenge

Due to the rapid integration of information technology education, network applications were becoming ever more ubiquitous and it made Gigabit network turn into a current trend in educational field. Coincides with the funding gained from Education Bureau to build a new wing, updating network infrastructure became an indispensable part of the project for Fanling Lutheran Secondary School.

In the past, every ten teachers shared one computer and there was less demand for the campus network; therefore, they only used 10/100Mbps Ethernet on the network infrastructure. However, the school had recently purchased computers for about 70 teachers; one person, one computer; and provided Intranet and Internet services for them, which had increased the demand of network resources. With the increasing number of network users, the early network infrastructure, in terms of number of ports, performance and functions, was aging. It was not up to the task of supporting a variety of enhancements and extensive campus refurbishment. Thereby, providing a network environment of Gigabit Ethernet with high speed and security was an essential element of Fanling Lutheran Secondary School's IT upgrade strategy.

ICT Technologies & Services Limited

General Inquiry

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Sales

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Technical Support

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Solution & Benefit

During the process of procurement, the price and quality of products were the school's highest priorities. ICT Technologies & Services Limited invested the time to develop a clear understanding of the schools' requirement on old and new wings. The solution ICT provided, which was more in line with the principle of cost-effectiveness, was most suitable to the school's needs for high value technology at a reasonable price. Indeed, the price of HP Procurve switches was the half of the similar products in the market. That's why it became the first choice of network upgrade project.

With regards to the topology, A HP Procurve's 4208vl-72GS high-end switch was installed as a core switch in the server room to improve performance and expand bandwidth. The 4208vl-72GS core switch offered a proven chassis form factor with high quality and reliability in 10/100, 10/100/1000, and 10-Gigabit scalable solutions that integrated easily into any network. Besides, ICT positioned 2510G-24 and 2510G-48 edge switches in each floor respectively for resilient growth and high availability. With these switches, each with 4 dual-personality ports—ideal for any network environment that were ready to upgrade to increased network performance. The solution guaranteed high network speed, which accelerated the transmission of data, and provided a better and more efficient online teaching environment.

Moreover, ICT suggested the school to update the existing devices of network security. A FortiGate 80C firewall was newly deployed to enable the reliable operation of campus network. To strengthen the usage management of network resource, SANGFOR Internet Behavior Management System was also installed to regulate the online activities of students.

In the deployment of the project, ICT's trained service teams impressed the school with their well follow-up and fast response, which relieved them on the whole project management.

