

Liu Po Shan Memorial College: Accelerate Data Transmission through Gigabit Core Network Upgrade



Liu Po Shan Memorial College, which is an outstanding secondary school in Hong Kong, has striven to provide young education since its establishment. It is renowned for its efforts in establishing a creative and energetic learning atmosphere. Thereby, students are able to realize their inner strength and thus, lay the cornerstone for lifelong learning.

In order to enhance students' interest as well as their ability in self-learning, the college devoted to promote IT into education by using the funds from Education Bureau, Quality Education Fund and the Council. This project includes purchasing computer systems for classrooms and library, installation of fiber networks throughout the whole campus and adding intranet and projector screen equipments etc.

Challenge

In attempt to improve learning effectiveness, the school integrated technology into education for interest enhancement by putting text, image and video into teaching materials. However, the demand of campus network system kept growing because of the increase of the IT facilities. Under the existing 10/100Mbps network, it was difficult to bear the heavy traffic of network and even faced the crisis of network congestion.

Mr. Chan, the technical engineer from Liu Po Shan Memorial College pointed out, existing 10/100Mbps switches were outdated and had been used for nearly eleven years. Under the previous network, transmission speed became slow. Staff was even unable to download a small file from file server, and the transfer speed was unacceptable for video communication. Besides, the scalability of old switches was relatively low and impossible to handle the huge demand of campus network. Therefore, the school planned to seek an effective solution to solve the problems.

Solution

Mr. Lai, IT teacher from Liu Po Shan Memorial College said, product performance and price were the main factors for solution selection. After comparing the related solutions in the market, the school selected ICT Technologies and

NETGEAR Gigabit Core Network Upgrade

Advantages

- Enhance Network Quality
- Accelerate Data Transmission
- High Scalability
- High Stability



Mr. Lai and Mr. Chan from Liu Po Shan Memorial College satisfy with NETGEAR Gigabit Core Network Upgrade Solution.

Services Limited as the solution provider and deployed NETGEAR Gigabit Core Network Upgrade Solution. Because of the limited budget, the school was unable to replace all existing 10/100Mbps switches; thus, they adopted one NETGEAR GSM7328S and four GS724TS advanced smart switches to connect to the existing switches by gigabit fiber cables, so as to build up a new gigabit network backbone with 10G upgrade path.

Advantages

Mr. Chan mentioned that the speed of data transfer is obviously improved after network upgrade. In the past, the quality of video streaming was unacceptable and the video was not smooth for live broadcasting. However, the capacity of gigabit network is greatly increased now. The solution provides school with a significant network environment without congestion and delay. The video streaming is excellent even for live broadcasting of special events.

Moreover, the solution helps the school achieve the goal of gigabit network under the principle of low cost. Indeed, the price of NETGEAR switches is much lower than equivalent products from other brands, and it reduces the cost of network upgrade. The products are even compatible for the existing switches, which are advantaged for the transition from the old to the new, so as to reach the increasing need of campus network and support more advanced IT educational systems.

Future

Mr. Lai said, ICT provides the most suitable solution for the school with minimized cost, and the school satisfies with it. They will consider expanding the usage of gigabit network if their financial position permits.

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