



Creating a Seamless WiFi Campus for Smarter Learning

Overview

To embrace the digital learning era and build a smart campus, Taipei Wego Private Elementary School partnered with Zyxel Networks to fully upgrade its network infrastructure. The school aimed to provide fast, stable, and secure wireless connectivity across the entire campus, supporting a wide range of digital learning tools and mobile devices used by both teachers and students. By adopting Zyxel Networks' solutions, the school eliminated dead zones and significantly improved network speed and reliability. As network security was also a top priority, advanced firewalls were deployed to provide threat protection and ensure a secure online environment for educational activities. Additionally, the solution enabled centralized network management with remote access, allowing IT staff to detect and resolve issues quickly and efficiently. The upgraded network, offering high security and quality connectivity, has become a model for smart learning environments in the private school sector. This transformation not only boosted convenience but also greatly enhanced teaching efficiency and the student learning experience, showing the school's strong commitment to educational excellence.

Challenges

Wego faced several major hurdles as it prepared to modernize its campus network. Wireless coverage was inconsistent, with many areas experiencing unstable or weak signals, which made it difficult to conduct digital learning effectively. The existing infrastructure couldn't handle the bandwidth and stability demands of modern educational tools and online content. At times, teachers and students experienced dropped connections and delays, disrupting lessons and affecting engagement. Network management was another major concern—without tools for remote monitoring and mobile troubleshooting, IT staff struggled to respond quickly to connectivity issues. The school also lacked a fast, responsive technical support system, leading to delays in resolving even basic configuration problems. This not only placed a heavy burden on administrative staff but also interrupted the learning process. To move forward, it needed a robust, secure, and easy-to-manage solution that could meet the growing demands of a tech-enabled learning environment.

Customer

Taipei Wego Private Elementary School

Industry

Education

Location

Taipei, Taiwan

Customer Background

Founded in 1950, Taipei Wego Private Elementary School is a prestigious private institution, and is dedicated to nurturing character, creativity, and global perspectives. The school offers a well-rounded curriculum that blends traditional and modern teaching styles, helping students grow in areas such as technology, leadership, languages, sports, and the humanities.



Solutions

Zyxel Networks delivered a comprehensive and top-notch networking solution tailored to Wego's needs. For security, ATP500 and ATP700 firewalls were deployed, offering multi-layer cloud-based protection with intelligent threat detection, application control, intrusion prevention, and anti-malware capabilities. The built-in SecuReporter provided real-time graphical reports and alerts, enabling the IT team to monitor and respond to security events effectively.

To improve wireless coverage and performance, the school installed Zyxel Networks' WAX610D access points throughout indoor areas, ensuring high-speed connections and energy efficiency with PoE+ support. Outdoor connectivity was also strengthened with WAC6553D-E APs, designed for challenging environments with advanced RF technology. XGS1930-28HP and XGS1930-52 Lite-L3 smart managed switches supported multi-gigabit speeds and smart management features to further boost performance and scalability. Together, these solutions created a fast, secure, and manageable network to support Wego's digital learning vision.

Product List



- WAX610D WiFi 6 Access Point
- WAC6553D-E WiFi 5 Outdoor Access Point



- XGS1930-28HP/52 Lite-L3 Smart Managed Switches



- ATP700/ATP500 Firewall

Results

With Zyxel Networks' solution in place, Taipei Wego Private Elementary School now enjoys full wireless coverage and stable high-speed connections campus-wide. Students and teachers benefit from seamless digital learning experiences, while the IT team can monitor and manage the network remotely. Enhanced security ensures data protection, and technical issues are resolved quickly, freeing up staff to focus on education.

- Seamless WiFi coverage across the entire campus
- Improved cybersecurity with multi-layer threat protection
- Remote network monitoring and management, faster issue resolution with responsive support tools

