



Helping Education Shine with Secure and Efficient Cloud Network

Overview

A robust network infrastructure is fundamental in the education sector, ensuring strong cybersecurity, preventing unauthorized access, and providing reliable connectivity for students at all times. With these priorities in mind, Ramón Izquierdo Salesian School in Badajoz partnered with Infomec Extremadura S.L. to deploy Zyxel's networking technology across its campus.

Today, all four school buildings, along with the theater and youth center, are equipped with high-quality WiFi that supports students' learning. The sports pavilion will soon be added, completing a campus-wide deployment designed to adapt the school to a modern digital environment and enhance educational opportunities for students.

Challenges

The project required creating a secure environment for students and the digital resources they use, supporting a comprehensive and up-to-date educational experience. A key challenge was delivering wide, seamless WiFi coverage across the school's four buildings, as well as the theater and youth center, with plans to extend coverage to the sports pavilion in the near future.

Solutions

Network management in the education sector is essential for keeping networks secure, well-controlled, and consistently available for students. For Ramón Izquierdo Salesian School, the priority was a robust solution that delivered not only stable, high-quality connectivity but also effective network monitoring and protection tools tailored to an educational environment.

A total of twenty-one WAX610D and two NWA110AX WiFi 6 access points were deployed to ensure smooth and high-speed WiFi access everywhere on campus.

Customer

Ramón Izquierdo Salesian School

Industry

Education

Location

Badajoz, Spain

Partner

Infomec Extremadura S.L.

Customer Background

Ramón Izquierdo Salesian School has spent more than 50 years to nurture thousands of young people in Badajoz. Committed to a comprehensive education approach, the school has continuously evolved to meet the ever-changing needs of its students.



We are very satisfied with the system, particularly for the security and control it provides. The integration of the firewall, including content filtering and application control, allows us to guarantee a secure digital environment for our students, preventing inappropriate access and ensuring safe and responsible online behavior within the school.”

Juan José Galván Flores

Ramón Izquierdo Salesian School

Three GS1920-48v2 smart managed switches and three XGS2220-30H L3 PoE switches were deployed to support uninterrupted connectivity and handle high-bandwidth demands for optimal learning experiences. With network security a major concern in the digital learning environment, the school installed a USG FLEX 500H firewall for robust network protection. Its integrated application control and content filtering features block malicious websites, restrict inappropriate content, and control application usage.

From switches and access points to security solutions, every component fits seamlessly into the school's connectivity and security needs. Meanwhile, the Nebula cloud management platform allows IT administrators to monitor and manage the entire network centrally and easily.

Product List



- WAX610D WiFi 6 Access Point
- NWA110AX WiFi 6 Access Point



- XGS2220-30H L3 Access PoE Switch
- GS1920-48v2 Smart Managed Switch



- USG FLEX 500H Firewall



- Nebula Pro Pack Licence
- Gold Security Pack Licence

Results

Zyxel Networks' solutions fully met the school's expectations, bringing secure, reliable connectivity to classrooms and facilities while supporting a safe digital learning environment. With comprehensive security measures in place, the school prevents unauthorized access while enabling students to use the network safely. Meanwhile, Nebula's intelligent cloud management allows IT staff to quickly and intuitively identify network issues, streamlining the troubleshooting process.

