School Complex in Chocianow

Polish School's Network Upgrade Ensures Students Graduate Ready for the Workforce

Customer at a glance

Customer Name
School Complex in Chocianow

Industry
Education

Location
Chocianow, Poland

Customer Background

The School Complex in Chocianow is one of the largest educational institutions in Lower Silesian Voivodeship. The school offers courses in mechatronics, logistics, and electronics, and its graduates are highly sought after by international enterprises such as Volkswagen. The school was equipped with 255 computers, but the lack of an efficient network and specialized processors meant they couldn't fulfill educational needs. As a result, a project was launched to deal with the heavy workload and improve the low capacity.

ZESPÓŁ SZKÓŁ W CHOCIANOWIE

"Modernizing the school's network infrastructure was an ambitious and complicated project, but we weren't worried. Thanks to Zyxel's products, meeting the network management expectations and satisfying students' needs was easily achievable."

**Grzegorz Rękawiczny
CEO, System-3 Sp. z o.o.**

Summary

The School Complex in Chocianow needed to upgrade its network to handle the heavy workload and improve the low capacity. The school's partner, System-3, chose Zyxel's access points, switches and ATP firewall to modernize the network infrastructure. The backbone of the upgraded network is based on fiber optic cabling with a 10-Gigabit capacity, ensuring data transfer and program use are smooth every time. The school's network switches were replaced with the highly efficient XGS2210 series L3 Aggregation Switches and GS1920-24HPv2 series Smart Managed PoE Switches. In addition, XS3800-28 L3 Aggregation Switches were installed for easy switching between intuitive Nebula cloud management and standalone management. The network was then secured by the ATP500 Firewall, providing a robust first line of defense against attacks. To address the biggest challenge – the slow internet speeds due to the large number of supported devices – NWA5123-AC HD APs were deployed. These use transmit beamforming and multi-user MIMO technologies to provide reliable high-density WiFi connections for numerous clients at the same time. Thanks to the new network, students are now enjoying a better learning environment and developing skills that meet future job.

Challenges

• Upgrade low capacity of network switches could not support increasing numbers of connected devices on campus
• Increase security level and simplify network management
• Allow simultaneous high-speed wireless access for multiple devices

Benefits

• Enhanced network connectivity allows for smooth, high-speed data transmission
• Secure and efficient network environment safeguarded by advanced threat protection technology
• Optimized wireless experience provides a high-quality learning environment even when a large number of clients are connected

Products used

• ATP500 ATP Firewall
• XS3800-28 L3 Aggregation Switch
• GS1920-24HPv2 Smart Managed PoE Switch
• XGS2210-28HP/52HP L3 Access Switch
• NWA5123-AC HD 802.11ac Access Point