



Success Story

German School Takes Education to the Next Level with Zyxel Wireless Solution



Education

INDUSTRY



CUSTOMER

Geschwister-Scholl Primary School



COUNTRY

Germany



SOLUTION

Zyxel Wireless Solution

Overview

Challenges

- Need faster, more reliable connectivity for classrooms
- Require VLAN for improved security
- Simplified management of access points

Solution

- Zyxel Wireless Solution

Results

- Speed and performance meet needs of students and teachers
- New guest network ensures sensitive information is safe
- Cloud management means anytime, anywhere control

Background

Geschwister-Scholl Primary School in Gengenbach, Germany serves as the educational home for several hundred students and more than 30 dedicated teachers. Comprising four separate buildings, the school is committed to instilling important values and developing the strengths of individual students for the good of the community. To better achieve these goals in the future, they have started to focus on integrating digital media and technology within the classroom.

Challenges

The school wanted to be able to train its staff to effectively use digital media to educate students. To make this technologically feasible, they required an upgraded infrastructure that could deliver faster internet connectivity and a stable wireless signal. The school had previously tried implementing wireless repeaters to expand coverage, but these were unable to handle the constant demand of numerous network devices. Since they lacked a guest network, VLAN capability was a must.

Solutions and Benefits

The objective was to set up a fast, high-performance wireless network that could be managed and configured from the cloud. After the school's leadership contacted various providers, they asked Zyxel to set up a test network for several classrooms.

In its initial deployment, Geschwister-Scholl deployed Nebula access points, which use Zyxel's cloud management system and intelligent antenna technology to deliver high performance without any hassle. With the PoE-capable XGS1930 smart managed switch, the school could deliver both data and power to the APs, ensuring that all wireless devices were providing solid connectivity. Additionally, Zyxel's comprehensive Nebula solution worked miracles for the school's network. Thanks to its intuitive interface, the team of wireless devices were easy to monitor and manage. The enhanced connectivity also allowed teachers to easily access educational resources from the cloud.



Lastly, the solution needed to allow for simplified management of access points.

The school has been able to accomplish its network goals quickly and cost-effectively. Because the school saw an immediate increase in wireless speed and reliability, they gave the okay to a full overhaul. Now, thanks to a Zyxel wireless solution, Geschwister-Scholl has the ideal network to provide students with a truly future-proof education.

Products Used

NAP303 • 802.11ac Dual-Radio Smart Antenna 3x3 Nebula Cloud Managed Access Point



- Cloud-managed, dual-radio, 3x3 MIMO, 802.11ac
- Supports combined data rates of up to 1.75 Gbps
- Smart antenna provides breakthrough performance
- Self-configuration and zero-touch deployment
- Enterprise-class security and RF optimization
- Dynamic channel selection, load balancing, and smart client steering

XGS1930 Series • 24/48-port GbE Smart Managed Switch with 4 SFP+ Uplink



- Four high-speed 10G fiber slots
- Up and running in minutes—supports NebulaFlex™ Technology to flexibly shift between standalone and license-free Nebula cloud management
- User-friendly wizard support
- Smart fan design offers silent operations in your office
- PoE models comply with IEEE 802.3at PoE Plus with high power budget

About Zyxel

Focused on innovation and customer-centricity, Zyxel has been connecting people to the Internet for nearly 30 years. Our ability to adapt and innovate with networking technology places us at the forefront of creating connectivity for telcos and service providers, business and home users. Zyxel is building the networks of tomorrow, unlocking potential, and meeting the needs of the modern workplace — powering people at work, life, and play. Zyxel, Your Networking Ally.

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