Success Story

WiFi Network Provides Polish Door Manufacture with Portal to New Growth

INDUSTRY
SMB

CUSTOMER
Domel

REGION
Poland

SOLUTIONS
Zyxel Wireless Solution

Overview

Challenges

- Provide wireless connectivity to large manufacturing facility
- Solution had to be secure and easy to manage
- Solution needed to provide reliable connectivity indoors and outdoors
- Solution must be able to grow with the company

Solutions

- 802.11ac Dual-Radio Unified Access Point
- 802.11ac Dual Radio External Antenna 3x3 Outdoor Access Point
- Wireless LAN Controller

Benefits

- Efficient and easy management of wireless network
- Remote configuration
- Seamless coverage indoors and outdoors thanks to dual-channel APs
- High-speed access to Internet for multiple users
- Scalable for future network expansion
- Enhanced security features protect sensitive data

"The primary goal of our company was to build a fast and secure wireless network. We chose Zyxel solutions not only because of their effective WiFi traffic management but also because of the high level of technical support provided by the manufacturer. It gives us an absolute sense of security."

Jakub Alachamowicz
IT Specialist, Domel

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Background

With over 20 years of experience making windows and doors, Domel today is one of the leading manufacturers in this sector in Poland. Based in Lomza, the company specializes in innovative energy-efficient PVC and aluminum window products. To meet growing demands, the company decided to move its headquarters in 2017, and sought a fast, secure, and efficient wireless network to provide connectivity to staff and guests.

Challenges

Domel chose the wireless network solution from Zyxel with the help of local partner Librum IT. To ensure the wireless network functioned smoothly throughout entire facility, it was necessary to analyze the building plans and to consider the placement of WiFi terminals. Due to the size of the network and Domel's requirements, it was decided that the NXC2500 wireless LAN controller was the best solution for centralized system management. NWA5123-AC 802.11ac Dual-Radio unified access points and WAC6553D-E Dual Radio external access points were also installed to provide complete signal coverage.

Solutions and Benefits

Domel needed to be able to seamlessly and effectively control its WiFi network throughout the company's newly built production building and office space. The ability to quickly and efficiently manage access points was a key factor in choosing a Zyxel wireless solutions.

Based on the analysis of the building plans, it was possible to configure Zyxel products remotely. This helped to manage the implementation costs. First tests of the newly launched WiFi network demonstrated that additional access points needed to be installed to achieve better signal coverage. In total, 16 NWA5123-AC access points and 3 WAC6553D-E external access points were used for outdoor spaces. "The implementation of solutions for the wireless network, which covers nearly 10,000 square meters of the building and the area around it, was a major challenge. It required perfect logistics and spatial thinking, especially since all preparatory work was done remotely," said Krzysztof Kica, vice president of Librum IT. "We can proudly note another success."

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Products Used

NWA5123-AC • 802.11ac Dual-Radio Unified Access Point

- Ceiling- and wall-mount design with optimized RF performance
- 2-in-1 standalone/managed AP design
- CAPWAP management supported
- Enterprise class 2x2 802.11ac AP supports combined data rates of up to 1200 Mbps
- APFlex™ and Zyxel One Network utilities make deployment simple and fast

WAC6553D-E • 802.11ac Dual Radio External Antenna 3x3 Outdoor Access Point

- Dual-band 2.4GHz and 5GHz 802.11ac Wave 1 Wireless Access Point
- Designed with IP66-rated weather protection which is ideal for harsh outdoor environments
- Advanced IEEE 802.11ac delivers up to 1.75 Gbps combined data rates
- Industry-leading receive sensitivity as low as -102 dBm
- APFlex™, and DCS streamline deployment
- Zyxel One Network is supported

NXC2500 • Wireless LAN Controller

- Centralized management for up to 64* APs
- ZyMesh mitigates complex, inconvenient cabling WiFi deployments Comprehensive features for WLAN performance optimization and always-on Wi-Fi connectivity
- Seamless integration with external AD, LDAP, RADIUS authentication
- User-friendly authentication by QR code facilitates
- keyboard-less mobile devices accessing Internet

*Management of 64 APs is supported with firmware version V4.10 or above

About Zyxel Communications

Focused on innovation and customer-centricity, Zyxel Communications 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.