



Success Story

ZyXEL Provides Wi-Fi Solution for Family Hotel Penzion Za Vodou in Dvůr Králové nad Labem, Czech Republic

“The ZyXEL solution we implemented to bolster our Wi-Fi coverage is fully functional, and more importantly for us, it perfectly meets the requirements of our hotel guests. Another important aspect is the possibility of extending this superior, hassle-free Wi-Fi coverage to other parts of our family hotel in the future as new buildings are constructed and expanded. The wireless project was implemented exactly according to our requirements, mutual agreement, and the satisfaction of all parties.”

Tomáš Bořek

Director of Family Hotel Penzion Za Vodou

Overview

Customer Name

Penzion Za Vodou

Customer Industry

Hospitality

Challenges

- Upgrade and expand Wi-Fi coverage at hotel, including 35 guest rooms, dining, and conference facilities
- Wireless network must be scalable without requiring further investment due to upcoming expansion plans
- Needs to be able to handle connections from a wide range of devices used by guests and staff
- Wi-Fi Solution must be stable, efficient, and affordable

Solutions

- 24-port GbE Smart Managed PoE+ Switch
- 802.11 a/b/g/n Dual-Radio Business Access Point with PoE Support

Benefits

- More than 95% of buildings in hotel complex enjoy full Wi-Fi coverage
- Guests able to stay connected within the hotel premises without need for re-registering
- Administrator able to configure settings for central and remote APs from single device
- Built-in scalability enables full coverage of all areas in upcoming hotel expansion plans

Challenges

The main reason behind the implementation of this project was insufficient coverage and capacity for wireless connections in rooms, guest quarters, and dining areas, often lead to breakdowns in Wi-Fi service when there were simultaneous or multiple connections at the mid-sized, family-run hotel.

Background

Family Hotel Penzion Za Vodou, famous for its quality cuisine, great surroundings, and comfortable accommodations, offers superior conference facilities for guests organizing conferences, seminars and other types of technical events. The child-friendly, family-orientated environment of the hotel includes various sport facilities, ranging from a basketball court and swimming pools, to a putting green and mini football pitch. It is also conveniently located near a municipal swimming pool and a zoo, two of the most popular destinations for hotel guests planning their leisure itinerary.

Solutions and Benefits

To upgrade Wi-Fi quality and signal reach to accommodate guests and staff located across 35 guest rooms plus various conference facilities and additional areas at Hotel Penzion Za Vodou, the project first required a professional measurement of the wireless signal strength by ZyXEL technicians. The same specialists also provided training to technicians from MEPAP, the company handling IT issues for the hotel, as well as delivering business and technical support once the project got underway.

After consultations with ZyXEL's team of Wi-Fi experts, Hotel Penzion Za Vodou decided on the following configuration: a total of 11 ZyXEL NWA3560-N access points to cover the guest rooms, conference facilities, and dining areas. Each access point transmits a single, publicly accessible wireless network for hotel guests. The network is separated from the internal network using VLAN, restricting non-users to the Internet only.

The access points are powered by a pair of fully manageable GS1910-24HP ZyXEL switches, both using PoE. A single ZyXEL NWA3160-N is then used as a controller for the access points. This Wi-Fi solution enables the hotel to support current and future enhancements of network coverage for newly constructed hotel buildings without the need to change existing infrastructure.

"We decided to implement this solution after studying the report from ZyXEL, which was preceded by a thorough measurement of Wi-Fi signal coverage within the hotel premises. The subsequent configuration and installation took just two days, including debugging of specific requirements," explained MEPAP's Martin Kubelka. "The quick implementation was possible due to our flexibility and the excellent technical support provided by everyone at the ZyXEL company."

After adopting ZyXEL's solution, Wi-Fi coverage now reaches more than 95% of the hotel complex. Use of ZyXEL NWA3560-N APs, which operate in the 2.4 GHz and 5 GHz bands, means up to 16 separate networks can be managed simultaneously without need for additional equipment. The hotel management and its investors are pleased the upgraded Wi-Fi performance will be more than adequate to meet wireless coverage for an upcoming enlargement of the hotel conference rooms. Also, the network administrator is able to configure settings for central and remote access points using a single ZyXEL NWA3160-N Access Point, which serves as a controller. Another key improvement is guests are now able to stay connected to a single network within the hotel premises without the need to re-register when moving from one area to another.

Products Used



NWA3560-N 802.11 a/b/g/n Dual-Radio Business Access Point

- Higher bandwidth and superior performance with 802.11n
- 3-in-1 hybrid AP WLAN including AP controller mode, managed AP mode and standalone AP mode
- Brand new centralized graphic management interface for up to 24 WLAN APs
- Back-up redundancy supported to provide reliable connection service
- Secured tunnels for communication between controller and managed AP to prevent leaking of configurations
- Enterprise-class AP functionalities with comprehensive configuration interfaces
- Built with Low Smoke, Zero Halogen (LSOH) materials for plenum rating for UL 2043 support



GS1910-24HP 24-port GbE Smart Managed PoE+ Switch

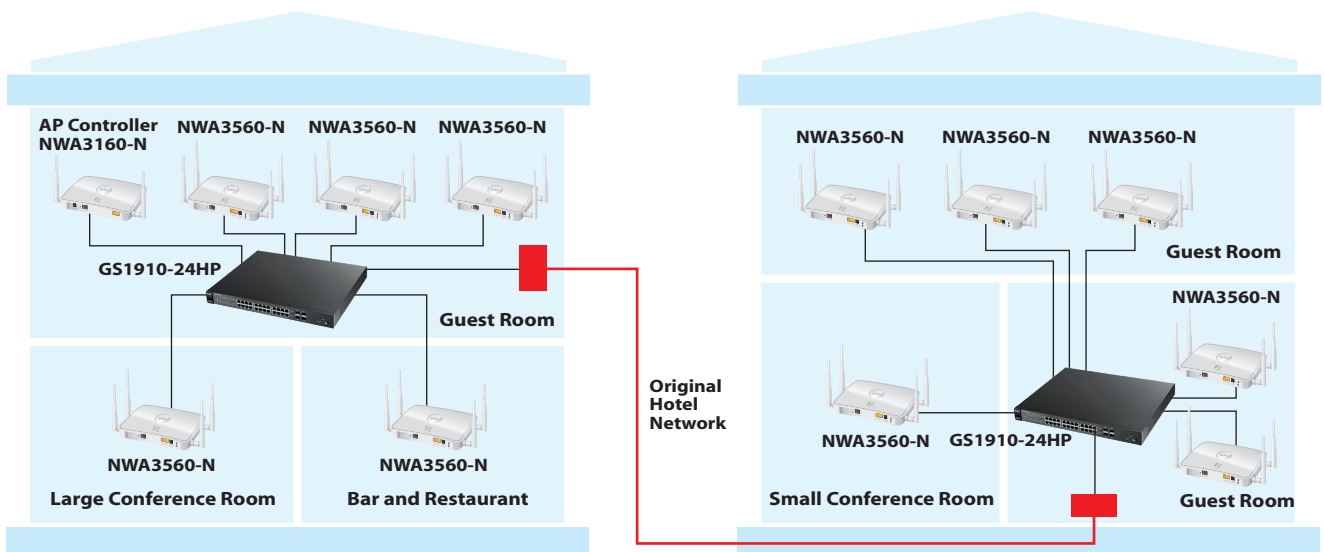
- Advanced Smart GbE L2 ACL switching features
- 48 Gbps non-blocking switch fabric
- IEEE 802.3at Power over Ethernet Plus
- Supports IPv6



NWA3160-N 802.11 a/b/g/n Business AP

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Diagram



About ZyXEL Communications

ZyXEL Communications Corp., founded in 1989 and headquartered in Taiwan, is the leading provider of complete broadband access solutions. As one of the early modem manufacturers, ZyXEL has gone through transformations in the fast-paced networking industry. Delivering cutting-edge communications innovations to more than 400,000 businesses and more than 100 million consumers throughout the world, today ZyXEL is one of the few companies in the world capable of offering complete networking solutions for Telcos, small to medium-sized businesses, and digital home users for a wide range of deployment scenarios. Telco solutions include Central Office Equipment, Customer Premise Equipment, Wired and Wireless Access Network Devices, and Carrier Switches. SMB and Enterprise solutions include Unified Security Gateways, LAN Switches, WLAN, and IP Telephony. Digital Home solutions include Network Connectivity Devices and Multimedia Solutions.

The company has 1000 employees and distributors in 70 countries, reaching more than 150 regional markets. The ZyXEL Communications Corp. includes 35 subsidiaries and sales offices and two research and development centers worldwide. For more information, visit the company's Website, <http://www.zyxel.com>.

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