ZyXEL

Success Story

ZyXEL Creates Economical High-Performance Wi-Fi Solution for Turkish Boutique Hotel

"We raised the quality and comfort in our hotel to a higher level with this project, which was undertaken by ZyXEL and Gate Information. It was extremely important for us to allow the guests staying at our hotel to utilize all technological opportunities. We made our network infrastructure ready for the future without any service interruption with the help of this project, which was completed in just one day."

H. Bahadır Uysal
IT Coordinator of Kalevera Hotel

Overview

Customer Name
Kalevera Hotel

Customer Industry
Hospitality

Challenges
- Update the network infrastructure in tourism facility with cutting-edge technology products and solutions
- Provide uninterrupted, stable, and secure Internet access for all guests and hotel staff
- Solution must be compatible with the requirements of Turkey Law No. 5651 Internet regulations
- Solution must be scalable and future-proof for eventual expansion

Solutions
- 802.11ac Dual Radio Smart Antenna 2x2 Access Point
- Wireless LAN Controller
- 802.11 a/b/g/n Outdoor Business WLAN Access Point
- Unified Access Gateway

Benefits
- Brings networks of hotels at two different locations together under a single roof
- Fast deployment and seamless communication for easy installation and management
- Stable and high-speed Internet access
- Security compatible with Law No. 5651

Background

The Kalevera Hotel is a boutique hotel in the heart of Edirne, Turkey. Located near the city's prime shopping and entertainment centers, as well as cultural attractions like the Selimiye Mosque, it offers accommodation for travelers looking for the perfect balance of fashionable luxury at an affordable price. This makes it a popular choice for both business travelers and hip young tourists.

Challenges

Demand for fast, stable, and powerful Internet connectivity has increased steadily in recent years. This is especially true in the tourism sector. Successful hospitality businesses must evolve with the changing technological needs of their customers, providing a network infrastructure that is capable of supporting the business's data systems while delivering quality network-based services to clients and guests. With this goal in mind, the Kalevera Hotel sought the help of leading network technology experts ZyXEL to improve its network infrastructure.

To complete the project, it was necessary to link the networks of the Kalevera and neighboring RYS hotel without degrading performance, speed, or stability. Internet connectivity must also be provided in all guest rooms, halls, and public areas without signal loss. Another critical requirement was centralized control and management of the network, as well as full compliance with Turkey's Law No. 5651, which regulates online communication. The Kalevera Hotel chose ZyXEL as the perfect fit to implement an efficient and cost-effective solution.

Solutions and Benefits

ZyXEL experts conducted a comprehensive analysis of the data security needs of the business and indoor Internet sharing requirements. This allowed ZyXEL to establish an end-to-end wired and wireless network solution built around cutting-edge technology products. ZyXEL solution partner Gate Information deployed ZyXEL products to link the networks of two hotels at different locations. The hotels were connected with a 20Mbit wireless bridge by installing a pair of 18-dBi 5Ghz antennas on two NWA3550-N Outdoor access points located at opposing points on the roofs of the buildings.

ZyXEL WAC6502D-S 802.11ac Dual Radio Smart Antenna 2x2 access points featuring next-generation AC and smart antenna technology were deployed to provide guests with trouble-free Internet connectivity in all corridors, rooms, and meeting areas within the facilities. Because the switches used in this solution support PoE (Power Over Ethernet) technology, the need for providing additional adapters for wireless access points was eliminated.

Access points are managed centrally by a ZyXEL NXC2500 Wireless LAN control device. Thus, a centrally controlled

structure is provided. This also meets the requirements of Turkey's Law No. 5651 communication regulations.

ZyXEL channel project sales manager Erdem Timur Koca commented on the project, saying: "We at ZyXEL Communication Technologies have a very powerful portfolio of corporate products and can offer excellent service to enterprises ranging from factories to hospitals, from university and dormitory facilities to hotels that have different needs. We are very happy to have the chance to work with a hotel like Kalevera that has changed its perception of comfort and quality in a more economical way, and to implement the installation of cutting-edge ZyXEL products."

Serkan Tufan Doruk, general manager of Gate Information, the contractor and a member of ZyXEL's ZyPartner Solution Partner Program, commented: "We are extremely proud of our participation in such a project using future network technologies to equip a hotel like Kalevera, combining comfort and quality with economy. As a member of ZyXEL family, we are very happy to carry out such a prestigious project."

Products Used

WAC6502D-S
802.11ac Dual Radio Smart Antenna 2x2 Access Point

- Advanced IEEE 802.11ac delivers up to 1.75 Gbps combined data rates
- Industry-leading receive sensitivity as low as -100 dBm
- APFlexTM, DCS and tool-less bracket design streamline deployment
- ZyXEL One Network is supported

NXC2500
Wireless LAN Controller

- Centralized management for up to 64* APs
- ZyMesh mitigates complex, inconvenient cabling Wi-Fi 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

NWA3550-N
802.11 a/b/g/n Outdoor Business WLAN Access Point

- No extra cost converting stand-alone AP architecture into management WLAN architecture
- Simplified management with scalability
- Secure architecture for reliable, scalable Wi-Fi networks
- Enterprise-class Access Point functionality

UAG4100
Unified Access Gateway

- IEEE 802.11 a/b/g/n dual-radio (2.4 GHz and 5 GHz) design
- Supports 200 concurrent users by default and up to 300 via license upgrade
- Integrated account generator, Web-based authentication portal and billing system
- Supports external RADIUS servers
- Per account bandwidth management
- Built-in WLAN controller (supports 8 APs by default and up to 16 APs via license upgrade)
- SP350E Service Gateway Printer enables one-click account and billing generation
- SMS ticketing with ViaNett protocol support

SP350E
Service Gateway Printer

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.