ZyXEL

Success Story

Luxury Hotel and Spa in Turkey Connects Guests with ZyXEL Wired and Wireless Solution

Overview

Customer Name
Wind of Lara Hotel & SPA

Customer Industry
Hospitality

Challenges
- The number of floors and rooms in the hotel building could block some wireless signals
- Project must comply with local network and Internet regulations
- Solution must offer secure, high-speed, and stable connectivity
- Network must support employee and guest accounts
- Network should be easy to manage and maintain

Solution
- 802.11ac Dual Radio Smart Antenna 2x2 Access Point
- 802.11 a/b/g/n Dual-Radio Unified Access Point
- Wireless LAN Controller
- 24/48-port Gigabit L2 PoE Switch
- L3 Managed stackable Gigabit Ethernet Switch

Benefits
- Rapid deployment
- Trouble-free communication and support thanks to easy installation features
- Quick connections despite a high level of access request
- Stable and fast Internet access
- Improved security features

Background

Wind Of Lara Hotel & SPA is located in the Lara region of Antalya, Turkey, 19km away from the city center and 12km from the airport. The resort redefines the concept of the perfect vacation destination for its exclusive clientele. Wind of Lara Hotel & SPA allows customers the opportunity to enjoy their holiday preferences with a wide variety of pleasing activities. The hotel provides the option for guests to relax in peace and tranquility inside the hotel, or they can enjoy fun in the sun on the nearby beach.Common areas are extremely pleasant and welcoming.

Challenges

Today's connected travelers and hospitality guests expect fast, stable, and secure connectivity from the accommodation and recreation facilities they visit. However, large multi-story resorts and hotels with multiple rooms can present numerous challenges to providing connectivity for guests and staff. A network infrastructure must be robust to deliver the level of service customers expect and employees require.

In the case of the Wind of Lara Hotel & SPA, a wired and wireless solution was needed that would eliminate the possibility dead spots created by walls and floors in large multi-level buildings. In addition to complete signal coverage, the solution would have to be secure to protect customers' private data and easily manageable, as well as comply with Turkey's Internet regulations.

Solutions and Benefits

This project was carried out through cooperation between ZyXEL business partner KBG Information and their sub-contractor Mavikent Computer. ZyXEL specialists performed an extensive analysis to determine the hotel's data security and interior Internet roaming requirements in order to set up wired and wireless networks using high-tech products and end-to-end network solutions provided by ZyXEL.

ZyXEL Layer 3 and Layer 2 manageable XGS4700 and GS2210 series products were deployed to create the switch infrastructure. The guest facility was equipped with an access network using state-of-the-art technology that included products and solutions such as ZyXEL's NXC 5500 Wireless LAN controller and access points manufactured with the new generation of AC standard technology.

As a result, the facility now enjoys full wired and wireless network coverage, providing complete Internet access for both guests and staff. The combination of top-of-the-line ZyXEL solutions and the expertise of ZyXEL's local business partners resulted in a smooth deployment and continuous professional support.

Products Used

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

- ZyXEL smart antenna with more than 700 optimized antenna patterns provides breakthrough performance anywhere
- Ideal for high-density and interference-laden indoor environments
- Advanced IEEE 802.11ac offers up to 1.1Gbps combined data rates
- Industry-leading Rx sensitivity as low as -102 dBm
- AP Flex^{TM}, DCS and tool-less bracket design streamline deployment
- ZyXEL One Network is supported

WAC6553D-E
802.11ac Dual Radio Unified Pro 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

NWA5123-NI
802.11 a/b/g/n Dual-Radio Unified Access Point

- Ceiling and wall mountable
- Plenum rated housing
- 2-in-1 standalone/managed AP design
- CAPWAP management supported
- 2.4 GHz and 5 GHz concurrent dual-band
- ZyXEL One Network is supported

NXC5500
Wireless LAN Controller

- Centralized WLAN management and auto provisioning
- Manages up to 512 APs with granular access control
- ZyMesh simplifies complex, inconvenient cabling Wi-Fi Deployments
- Comprehensive features for WLAN performance optimization and always-on Wi-Fi connectivity
- Wireless LAN performance optimization via dynamic channel selection and load balancing

GS2210 Series
24/48-port Gigabit L2 PoE Switch

- Fully managed Layer 2 switching solution
- Complies with IEEE 802.3af PoE and 802.3at PoE Plus with high 375 W power budget
- L2 multicast, IGMP snooping, MVR and voice VLAN for convergence
- Enhanced network protection with IP source guard, DHCP snooping, ARP inspection, CPU protection
- L2, L3 and L4 filtering, MAC freeze, port isolation, guest VLAN for improved isolation and access control
- Future-proofed with IPv6 support
- Supports ZON Utility and ZyXEL One Network inter-device features for easier, more efficient setup and management

XGS-4728F
L3 Managed stackable Gigabit Ethernet Switch

- IPv4/IPv6 Routing
- L3 advanced routing protocols, OSPF, DVMRP, VRRP and ECMP
- Optional modular 10 Gigabit Ethernet support
- Multilayer-aware (L2/L3/L4) ACL for security protection and traffic optimization
- Guest VLAN
- IGMP Snooping v1, v2, v3, MVR
- sFlow, CPU protection
- RSTP, MSTP, MRSTP, VRRP

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.