ZYXEL

Success Story

Tourists and Business Guests Stay Connected with Hotel's Wi-Fi Solution

INDUSTRY — Hospitality

CUSTOMER — Forum Suite Hotel Mersin

REGION — Turkey

SOLUTIONS — Zyxel wireless solution

Overview

Challenges

- Large number of floors and rooms hotel potentially weaken wireless signals
- Large number of users connecting simultaneously clog bandwidth
- Solution must meet Turkish government regulations

Solutions

- Next-Gen Unified Security Gateway Advanced Series
- 24-port GbE Smart Managed Switch
- Wireless LAN Controller
- 802.11ac Dual Radio Smart Antenna 2x2 Access Point
- Unified Access Gateway

Benefits

- Quick connections despite a high number of access request
- Stable and fast Internet access
- Network security
- Hotspot integration

"Forum Suite Hotel is one of the most popular hotels in Mersin. We have always distinguished ourselves from others and aim to attract customers by standing out among the competition. Providing our customers with uninterrupted, fast, and secure Internet access constitutes a significant part of this strategy. The success of DBT Dora Bilişim and Zyxel solution is well known in the tourism industry. With this project which we brought to life in a very short span of time, we are now able to provide our customers with the Internet access facilities they require."

Gamze AVCI
Mersin Forum Suite Hotel Managing Director

Background

Located in the city of Mersin on Turkey's southern Mediterranean coast, the Forum Suite Hotel caters to visitors who travel to the country's largest port city for both business and pleasure. The hotel is situated just 300 meters from Forum Mersin, the one of the largest and most popular shopping malls in the southern region.

Forum Suite Hotel accommodates guests with 48 high-quality rooms of various sizes, ranging from 25 to 40 square meters. The hotel also features a spacious meeting hall with a capacity of 250 persons that is suitable for every manner of event, a fitness center, and a Turkish bath and spa. All facilities provide unique architecture and décor as well as premium service through a friendly and professional staff.

Challenges

Visitors to the Forum Suite Hotel expect fast, stable wireless Internet connectivity for their mobile devices. However, providing this in a large multi-story, multi-room facility can be problematic. Floors, walls, and other barriers often block and weaken Wi-Fi signals. Further complicating matters, multiple users connecting simultaneously, often to stream media, can quickly clog bandwidth and degrade network service for everyone. The hotel needed a wireless solution that would overcome these challenges and keep customers satisfied. To achieve this, the Forum Suite Hotel chose a wired and wireless network infrastructure built around Zyxel products.

Solutions and Benefits

To carry out the network upgrade, the hotel teamed up with DBT Dora Bilişim, a local Zyxel business partner. While the scale of the project was initially considered a major hurdle, this was overcome with the right combination of Zyxel wired and wireless networking products.

First, DBT Dora Bilişim performed an extensive analysis to assess the hotel's data security and indoor Internet roaming needs. Technicians followed up by installing a cable network featuring high-end products and solutions from Zyxel. This included a USG 310 Firewall to keep customer data secure and while meeting the requirements of Turkey's strict Internet laws. The backbone of the network is a GS1900-24HP smart managed switch, which provides speed and stability with easy-to-use management options. NXC2500 series wireless LAN controllers deliver data to UAG4100 unified access gateways and several WAC6502D-S 802.11ac Dual Radio access points. With the latter feature smart antenna technology to supply ample signal strength to every corner of the hotel.

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Products Used

USG310 • Next-Gen Unified Security Gateway Advanced Series

- High-performance, high-value Next Generation Firewall (NGFW) for small and medium-sized businesses
- Complete network protection with firewall, anti-virus, antispam, content filtering, IDP, next-generation application intelligence and SSL inspection
- Robust SSL, IPSec and L2TP over IPSec VPN connectivity and VPN high availability (HA)
- Built-in WLAN controller for centralized AP management and effortless WLAN scalability

GS1900-24HP • 24-port GbE Smart Managed Switch

- 10/100/1000 Mbps GbE ports
- Easy browser-based switch management
- Quick and easy set up wizard
- Advanced network error prevention features (loop protection, dual images, storm control, DoS and SSL)
- High-power PoE support IEEE 802.3at

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™, DCS and tool-less bracket design streamline deployment
- Zyxel One Network is supported

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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

UAG4100 • Unified Access Gateway

Service Gateway Printer

- 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 for centralized AP management and effortless WLAN scalability
- SP350E Service Gateway Printer enables one-click account and billing generation
- SMS ticketing with ViaNett protocol support

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.