



Success Story

Zyxel Helps Turkish Hotel Refresh its Network Without a Moment of Downtime



Hospitality

INDUSTRY



CUSTOMER

Hotel Monec



COUNTRY

Turkey



SOLUTION

Zyxel
Wireless
Solution

Overview

Challenges

- Replace legacy infrastructure with new technologies
- Deploy wireless infrastructure to eliminate dead spots in all 50 rooms and public spaces throughout six-story building
- Enable secure management of surveillance and communication systems

Benefits

- All wired and wireless infrastructure upgraded with Zyxel solutions
- Guest and staff network access separated
- Five VLANs created for IP security camera system and IP switchboard
- Stable and fast internet access in every area of the hotel

Solution

- Zyxel Wireless Solution

"After examining the products of companies offering solutions, we chose Zyxel's, which we were happy to see met the needs of our hotel precisely. The project was carried out by Zyxel's local partner, Aybiltech Bilgisayar. We were also happy to see that the project was completed without any problem and in the promised time frame, and that the network infrastructure was changed without disturbing our guests. We thank Aybiltech for its expertise and professionalism. They've renewed the whole network with Zyxel technology and delivered it all packaged up as a turn-key solution."

Timur Seyhan
General coordinator, Hotel Monec

Background

Çankaya is the heart of Ankara. The cosmopolitan district is home to numerous government buildings, the national parliament, and foreign embassies. It's the Turkish capital's cultural center, too. The area's mix of classic Ottoman structures and modern architecture houses museums, art galleries, bookshops, and movie theaters.

It's a hotspot for travelers, and Hotel Monec has been wowing them for years with its impressive façade, rooftop restaurant, chic pool and bar, and attentive service.

Challenges

"Our hotel provides internet service free of charge to every guest, so we needed reliable network infrastructure to ensure we could deliver high-speed access at all times. The existing network infrastructure was no longer capable of serving our guests, with interruptions and inefficiencies causing a dip in their satisfaction." said Timur Seyhan, the hotel's general coordinator.

The hotel called in Aybiltech Bilgisayar, a system integrator and Zyxel partner that has been serving the Turkish market since 2011.

Of course, it wasn't as simple as installing a couple of new access points. For one thing, a seamless transition had to be carefully planned. Timur explained: "Since the hotel would still be serving guests throughout the project,

The rooftop lounge is a favorite among visitors thanks to its beautiful panoramic views of the city.

However, until recently, Hotel Monec's network infrastructure hadn't been updated since 2008—something that didn't help with customer satisfaction. When the occupancy rate was high, data transmission speeds were inevitably low, with guests often being completely unable to connect to the establishment's WiFi.

the work had to be carried out without disturbing them and without any interruption to the network traffic."

Hotel Monec's wired networking infrastructure was also in need of attention, as were the VLANs used for the establishment's surveillance and communication equipment. The IP surveillance system is particularly notable; its numerous lenses keep an eye on every public part of the hotel, indoors and out.

"After researching its products, Hotel Monec chose Zyxel to update the network," Aybiltech GM Selçuk Ayhan said.

Aybiltech next conducted a site-wide signal analysis, yielding the data needed to determine the optimal number of access points for deployment around the hotel.

Solutions and Benefits

After devising the new infrastructure and preconfiguring all the devices possible, it was time for the deployment. To the delight of the hotel and its guests, the installation went off without a hitch; the switchover to the new network was completed flawlessly with no downtime.

The brain of the new network comprises Zyxel controllers and switches. Aybiltech first chose the **NXC5500, a WLAN controller** specially designed to be easy to use and scalable for hotels, schools, chain stores, and SMBs. For the switches, it marshalled **the GS2210 and GS1920**; together, the 24-port devices provide agile traffic control for converged networking applications—ideal for Hotel Monec's communications needs.

Doing the heavy lifting of transmitting WiFi to every corner of the hotel are **WAC6500 series** and WAC6103D-I access points. These dual-radio APs all deliver rapid transmission rates; furthermore, each meets the latest 802.11ac WiFi standard and the latter also boasts a dual-optimized antenna.

Finally, the **ZyWALL USG1100 firewall** was employed to ensure peace of mind for guests and staff alike, providing powerful, robust, and always-online protection.

With the overhauled wired and wireless network infrastructure now up and running, internet access is rapid and reliable. In addition, five VLANs have been created and are now smoothly handling the hotel's security camera system and IP telephone exchange.

Just as important is the centralized nature and easy scalability that Zyxel's products provide. "The scalable architecture of the new network infrastructure will contribute to the satisfaction of Hotel Monec guests for many years to come," said Omer Faruk Erünsal, Zyxel's enterprise solutions channel sales manager.

Selçuk summed it up similarly: "Hotel Monec's network infrastructure is ready for the future."

Products Used

ZyWALL USG1100 • Next-Gen Unified Security Gateway Extreme Series



- UTM Firewall for medium- and large-sized businesses and campuses
- Anti-malware protection with Anti-Virus, Anti-Spam, Content Filtering 2.0, IDP, and Application Protocol
- Patrol and SSL inspection
- Robust SSL, IPSec, and L2TP over IPSec VPN connectivity and VPN High Availability (HA)
- Unified security policy
- Device HA Pro ensures smart handover
- Hotspot management supported

NXC5500 • Wireless LAN Controller



- Centralized WLAN management and auto provisioning
- Manages up to 1,024 APs with granular access control
- ZyMesh simplifies complex, inconvenient cable-heavy WiFi deployments
- Comprehensive features for WLAN performance optimization and always-on WiFi connectivity
- Wireless LAN performance optimization via dynamic channel selection and load balancing
- QR code-based guest authentication
- Zyxel One Network supported

WAC6502D-S • 802.11ac Dual-Radio Smart Antenna 3x3 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 combined data rates of up to 1.2 Gbps
- Industry-leading Rx sensitivity as low as -102 dBm
- AP Flex™, DCS, and tool-less bracket design for streamlined deployment

WAC6103D-I • 802.11ac Dual-Radio Dual-Optimized Antenna 3x3 Access Point



- Dual-optimized antenna allows pattern optimization adapting to wall- or ceiling-mounted installation
- 3x3 802.11ac supports combined data rates of up to 1.75 Gbps
- Load balancing for both standalone and managed modes
- Dual-image support for reliable WiFi connectivity
- ZyXel ONE Network for standalone AP management

GS2210-24HP • 24-Port Gigabit L2 PoE Switch



- High power budget of 375 W
- L2 multicast, IGMP snooping, MVR, and voice VLAN for convergence
- Enhanced network protection with IP source guard, DHCP snooping, ARP inspection, and CPU protection
- L2, L3, and L4 filtering, MAC freeze, port isolation, and guest VLAN for improved isolation and access control

GS1920-24HP • 24HP Gigabit Smart Managed PoE Switch



- Easy-to-manage rich L2 features with user-friendly Web browser-based management GUI
- Supports PoE+ standard to offer 30 W per port and a high PoE power budget of 375 W
- Smart fan design offers silent operation in both desktop and rack-mounted environments
- Supports ZON Utility and Smart Connect to simplify network management and maintenance

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.

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