# ZYXEL

## Success Story

### How and Why Zyxel Helped a Turkish Five-Star Hotel Separate its Guests From its Staff

| INDUSTRY | Hospitality | CUSTOMER | Yasmin Bodrum Resort | COUNTRY | Turkey | SOLUTIONS | Zyxel Wire & Wireless Solution |
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## Overview

### Challenges

- Replace wired and wireless network infrastructure for all hotel areas, inside and outdoors
- Provide uninterrupted, high-density WiFi coverage across 108,000 square meters
- Separate internet access for staff and guests
- Provide centralized management for active network devices

### Benefits

- Extra data security and connection reliability for staff
- Cloud software enables easy control and management of network traffic and connected devices

### Solution

- Zyxel Wired and Wireless Solution

"Our hotel is located in Bodrum, a famous vacation town in Turkey. Yasmin Bodrum Resort offers 152 rooms and a holiday atmosphere. We needed to isolate the network used by our staff from that used by guests and to be able to manage the entire network on a single platform. [Zyxel business partner] Arma Bilişim designed a solution for us that integrated exactly the right hardware and software. The plan was completed smoothly and right on time."

Hasan Huseyin Cambaz
IT manager, Yasmin Bodrum Resort

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## Background

Yasmin Bodrum Resort could hardly have a better location anywhere in Turkey: this five-star resort is located on the coast of Mugla Province, overlooking the glistening Aegean Sea. The sprawling establishment boasts 108,000 square meters of floor space, with a capacity of 1,140 beds, 152 rooms, and six meeting rooms.



## Challenges

Until recently, Yasmin Resort did have internet access but signal strength was poor, speeds were slow, and there was no separated wireless access for staff and guests-something that has several sizeable advantages.

First and foremost, it's an additional measure keeping potentially sensitive business-related information out of reach of non-staff. In addition, when internet access is limited, bandwidth can be tipped in favor of staff to ensure business operations aren't interrupted.

For Yasmin Resort, creating individual channels for these two groups of users required overhauling the existing network infrastructure—inside the hotel and out—and replacing it with equipment that could manage all active network devices from a single centralized point.

The hotel called in Arma Bilişim, a local Zyxel partner. After carefully examining the resort's needs and the site itself, the Arma Bilişim team designed a comprehensive plan from scratch.

## Solutions and Benefits

The heart of Yasmin Resort's new network comprised three of Zyxel's high-performance switches. A total of 18 switches were installed. The core of the network is the **XGS4600-32F L3 switch**, which helps simplify cross-subnet communications for complex networks like Yasmin Resort. The **GS2210-8HP switch** does much of the heavy lifting; designed specifically with businesses such as hotels in mind, it delivers more efficient traffic management by shaping it for various diverse deployments. Also used is the **GS1900-24HP,** which boasts IEEE 802.3at PoE+ that supports a total power budget of up to 170 W. This flexibly extends networks, especially for high-power devices such as APs and security cameras.

At the extremities of the network are WiFi-broadcasting access points from Zyxel's **NWA1123-AC series**, with 86 of them deployed. These hybrid APs can operate in standalone mode or be centrally managed via the **Nebula Control Center**, which can be accessed anywhere, anytime. In addition, the **NWA1123-AC PRO** boasts a combined data rate of up to 1.75 Gbps and, through Zyxel's innovative dual-optimized antenna design, delivers increased coverage and improved connection

speeds for every client.

This combination of Zyxel's intuitively designed switches and APs lets Yasmin Resort's IT staff control the bandwidth allocations and access privileges of different user groups with just a few clicks. And for the APs, they can do so from a single centralized point: **the Nebula Control Center.**

And the final task? Protecting the access points deployed in the hotel's outside areas. The answer: Zyxel's outdoor AP enclosure. Designed to withstand temperatures from -20° to 50° Celsius, the enclosure is waterproof up to IPX5 and its UV-stabilized plastic facilitates an extend lifespan.

It was a large-scale job but went off without a hitch, with hotel staff now able to access their own private network and able to control their network with ease—a satisfying outcome for Fatih Çapkın, the sales manager at Arma Bilişim. "We're very happy to have provided the new infrastructure for Yasmin Resort Hotel is one of the most beautiful hotels in Bodrum."

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## Products Used

### XGS4600-32F • 28-Port GbE L3 Managed Fiber Switch with 4 SFP+ Uplink

- Four built-in 10-G SFP+ uplinks enable smooth, congestion-free data delivery for high-bandwidth applications
- Provides high bandwidth with true physical stacking of up to four units and 112 Gigabit ports
- Carbon fiber-style name plate delivers a modern look and feel
- High resiliency with redundant power supply units

### GS2210-8HP • 8-Port Gigabit L2 PoE Switch

- High power budget of 180 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

### GS1900-24HP • 24-Port GbE Smart Managed PoE Switch

- 10/100/1000 Mbps GbE ports
- PoE power budget of 170 W
- Easy browser-based switch management
- Quick and easy setup wizard
- Advanced network error prevention features (loop protection, dual images, storm control, DoS, and SSL)
- High-power PoE support IEEE 802.3at

### NWA1123-ACv2 • 802.11ac Dual-Radio Ceiling-Mount PoE Access Point

- NebulaFlex™ gives you the flexibility to switch between standalone and license-free Nebula cloud management
- Nebula cloud management allows easy deployment, real-time configurations, and access to all your access points anytime
- 802.11ac 2x2 support for combined data rates of up to 1.2 Gbps
- Compact ceiling-mount design with optimized RF performance
- Robust build quality including solid-state capacitors to ensure long life and operational reliability

## NWA1123-AC PRO • 802.11ac Dual-Radio Dual-Mount PoE Access PointAccess Point

- NebulaFlex™ gives you the flexibility to switch between standalone and license-free Nebula cloud management
- Nebula cloud management allows easy deployment, real-time configurations, and access to all your access points anytime
- Dual-optimized antenna for optimal performance in wall- and ceiling-mounted installations
- 802.11ac 3x3 support for combined data rates of up to 1.75 Gbps
- Robust build quality including solid-state capacitors to ensure long life and operational reliability

## Outdoor Enclosure for Indoor Access Point

- Compatible with various Zyxel APs including unified, cloud -managed, and standalone units
- Wide operating temperature range of 50°C to -20°C
- Compact size seamlessly blends into any environment
- UV-stabilized plastic extends enclosure lifetime
- Flexible mount design for wall mounting, or pole mount installation with pole mount kit (sold separately)
- IPX5 rating turns any Zyxel indoor AP into a weatherproof outdoor AP

## Nebula Control Center (NCC)

- Responsive web design and intuitive user interface
- Multi-tenant and multi-site view
- Role-based administration privileges
- Real-time as well as historical monitoring and reporting
- Site-based auto and smart configuring tools
- Misconfiguration protection to prevent NCC disconnections
- Rich site-wide management tools (dashboard, map and floor plans, and topology)

### 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.