



## Success Story

Luxurious Turkish Resort Stays Ahead of the Competition with Zyxel Wireless Solution



Hospitality



Delphin BE  
Grand Resort



Turkey



Zyxel  
Wireless  
Solution

## Overview

### Challenges

- Provide complete coverage to interiors and exteriors of expansive, multi-structure resort complex
- Deliver powerful wireless experience that exceeds the offerings of nearby competitors
- Give resort the ability to expand and enhance its network to meet evolving patron and staff needs

### Results

- Quick, flawless deployment thanks to intuitive management features and diligent tech support
- High-bandwidth connectivity for a wide range of entertainment, communication, and business apps
- Scalable network infrastructure to meet current and future guest and staff needs

### Solutions

- Zyxel Wireless Solution

"The Delphin BE Grand Resort is the most entertaining and luxurious hotel in Antalya, so we wanted a network infrastructure that could provide our guests the same high-class service. By working together with Zyxel and KBG Bilisim Pazarlama, a local integrator, we were able to quickly achieve our goal of having fast, stable, and secure connectivity that's built for the future."

Kadir Yigit Tırlan  
IT Coordinator, Delphin Group

## Background

The Delphin BE Grand Resort, formerly known as Botaniks Exclusive Resort, stands majestically on the shores of Turkey's picturesque Mediterranean coast. Situated in the Lara district of Antalya, the newly renovated Delphin is much more than its impressive exterior; it boasts an array of amenities that even royalty would find impressive. The five-star resort has a total of ten indoor and outdoor swimming pools and private access to the beautiful Lara Beach. For visitors who prefer indoor comforts, there's a first-class spa and fitness center, spaces for live music and shows, and a dining hall that offers a range of global cuisine. And since every room comes with an entertainment center and high-speed WiFi, guests will feel right at home from sunrise to sunset.



## Challenges

The demand for fast and stable wireless internet is increasing by the day. For heavily populated spaces like schools and hotels, where peak usage can place tremendous pressure on even the most potent networks, it's more than just a need—it's a must. The Delphin only contains nine floors, but makes up for the lack of height with its four spacious, interconnected structures and 853 rooms.

In order to provide optimal WiFi to every part of the sprawling complex, the hotel required a robust and versatile network infrastructure. The resort enlisted the help of KBG Bilişim Pazarlama, a trusted Zyxel integrator, to ensure that its patrons remained calm and connected on their seaside respite.

## Solutions and Benefits

Before getting to work on the comprehensive Zyxel Wireless Solution, IT experts conducted a thorough analysis of the resort's typical network activity. They used their findings to design a cutting-edge infrastructure tailor-made for the Delphin.

The deployment of Zyxel's potent **XGS4700 series switch** was the first step in rebuilding the massive resort's network infrastructure. The high-performance switch is the perfect centerpiece for large-scale hospitality projects. Its intelligent QoS features will ensure that the Delphin gets optimal performance, especially for vital business apps like VoIP and video conferencing. The Delphin's specific network architecture also includes two edge switches—the **GS3700-48HP and GS2210 Series**—to manage traffic to and from work computers, guest access points, security cameras, and a host of other endpoints.

After the switching groundwork was laid, the Delphin

installed new wireless access points from Zyxel's **NWA5120 Series and WAC6500 Series**. The resort's guests now have breathtakingly fast, seamless internet for streaming shows, calling friends or colleagues, or simply surfing the web. And because the solution also incorporated durable external access points, that powerful connectivity extends all the way to the outdoors. The IT staff can easily configure and manage the legion of access points via Zyxel's dynamic, centralized **NXC5500 Wireless LAN Controller**.

The Zyxel Wireless Solution has given the Delphin resort all the state-of-the-art network tools it needs to stay comfortably ahead of the competition. This is all the more important given the many luxury and themed resorts in the surrounding area. The best part of the solution? It's completely futureproof and scalable, empowering the resort to expand and improve its array of guest services for years to come.

## Products Used

### XGS4700 Series • 24/48-port Gigabit L3 Switch with 10GbE Uplink



- 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
- Removable fan and power modules (XGS4700-48F)

### GS3700-48HP • 48-port Gigabit L2+ Switch



- Full Layer 2 feature set with Layer 3 features including static routing, policy-based routing, and VRRP/ECMP support
- Four Gigabit SFP uplink flexibility
- 48 ports of Gigabit Ethernet desktop connectivity
- Hot-swappable power supply and fan modules
- Internal redundant power supply design
- High PoE power budget up to 1000 W

### GS2210 Series • 8/24/48-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
- Supports ZON Utility and Smart Connect for easier, more efficient setup and management

### 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 optimization and always-on WiFi connectivity
- Dynamic channel selection and load balancing
- Guest authentication via QR code
- Zyxel One Network support

## WAC6553D-E • 802.11ac Dual Radio External Antenna 3x3 Outdoor Access Point



- Dual-band 2.4GHz and 5GHz 802.11ac Wireless Access Point
- Designed with IP66-rated weather protection—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 for streamlined deployment
- 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 in any location
- 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

## 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
- ZyXel One Network supported

### About ZyXel

Focused on innovation and customer-centricity, ZyXel 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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