



Success Story

Homesick Students Connect with Family and Friends via ZyXEL Wi-Fi Solution

“ZyXEL helped us provide high-speed internet connectivity through a seamless network. The project was completed in two days and the biggest indicator of its success was how positively the users reacted, expressing their satisfaction to us that our service and the selection of ZyXEL products represented a major step forward.”

Gökmen Kapti
Han Student Housing’s General Manager

Overview

Customer Name

Han Student Houses

Customer Industry

Hospitality

Challenges

- Provide wireless internet connectivity for student dormitory
- Large the number of floors and rooms in the student dormitory
- Building architecture not designed for wireless infrastructure
- Simultaneous requests for internet access by a large number of students could slow service

Solution

- Wireless LAN Controller
- 802.11ac Dual Radio Smart Antenna 2x2 Access Point
- Unified Access Gateway
- 48-port GbE Smart Managed Switch

Benefits

- Rapid deployment thanks to easy installation features
- Trouble-free communication and support
- Quick and easy connections despite numerous access requests
- Stable, secure, and fast internet access

Background

Han Student Houses offers a warm and accommodating dormitory environment in Istanbul, Turkey for college student studying far from home. Among the services provided are internet access options, which the resident students can use for their lessons, as well as to communicate with their families.





Challenges

It's a fact of college life that dorm residents require fast, stable, and secure internet connectivity. Network infrastructures must be robust in order to provide quality service to the students — particularly in densely populated dormitories that have numerous rooms across multiple levels. For this reason, ZyXEL products were chosen to create the wireless network infrastructure at Han Student Houses.

Solutions and Benefits

ZyXEL specialists performed an extensive analysis to determine the data security and interior internet roaming requirements of the institution in order to set up cable networks using the best possible products and end-to-end network solutions provided by ZyXEL.

For this project, Detaybilgi Computer, a member of ZyXEL's partner program, was selected as the contractor. Detaybilgi Computer, was able to complete the project in just two days.

The project was based on 25 ZyXEL WAC6502D-S access points with smart antenna technology, which were deployed throughout the Han Student Houses facility. The access points are centrally managed by a ZyXEL NXC2500 Smart WLAN controller. Later in the project, a separate VLAN was created. Internet access was provided to the facility's restaurant via a UAG4100 unified access gateway acting as a Wi-Fi hotspot. User names and passwords can be generated via a printer connected to the hotspot device. For guests requiring temporary access, a PMS system with hotel integration was added. An inquiry screen and identification check were also provided.

The dormitory acquired the services of ZyXEL regional partner Detaybilgi Computer. Although the high number of rooms and the large population of resident students would present a challenge for most wireless network infrastructures, these problems were resolved easily thanks to the quality of products and services provided.

"At Han Student Houses facilities, we try to create a family atmosphere that provides for all the needs of students as they immerse themselves in academic life away from home. As part of that, we want them to benefit from the latest technological advances. We are also aware of the importance of education technology in their choice of housing. ZyXEL helped us provide high-speed internet connectivity through a seamless network. The project was completed in two days and the biggest indicator of its success was how positively the users reacted, expressing their satisfaction to us that our service and the selection of ZyXEL products represented a major step forward." said Gökmen Kapti, General Manager of Han Student Housing

Products Used



NXC2500 Wireless LAN Controller

- Centralized management for up to 64* APs
- ZyMesh mitigates complex, inconvenient cabling
- Comprehensive features for Wi-Fi deployments
- Wi-Fi 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*



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

- ZyXEL smart antenna provides premium performance anywhere
- Advanced IEEE 802.11ac offers up to 1.1Gbps combined data rates
- Industry-leading Rx sensitivity as low as -102 dBm
- AP Flex™, ZyXEL ONE Network utilities, DCS and tool-less bracket design streamline deployment
- Load balancing and client steering ensure optimal wireless experience
- ZyMESH easily extends reliable Wi-Fi network



UAG4100 **Unified Access Gateway**

- 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 (supports 8 APs by default and up to 16 APs via license upgrade)
- SP350E Service Gateway Printer enables one-click account and billing generation
- SMS ticketing with ViaNett protocol support



GS1920-48HP **48-port GbE Smart Managed Switch**

- Smart managed switch with essential L2 features
- GbE RJ-45, GbE combo (RJ-45/SFP) and fixed GbE SFP connectivity
- Compliant with IEEE 802.3af PoE and 802.3at PoE Plus
- High 375-watt power budget
- Supports ZON Utility, ZyXEL Smart Connect and iStacking facilitates easy network initialization and management
- Reliable network availability with Loop Guard, IPSPG, and CPU protection
- RADIUS, static MAC forwarding and 802.1X authentication-enhance network security
- Future-proofed with IPv6 support

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>.

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