



## Success Story

### Turkey's Student Dormitory Secures Network Access with ZyXEL Products

#### Overview

##### Customer Name

Vadi54

##### Customer Industry

Hospitality

##### Challenges

- Provide wired and wireless network and Internet access to residents
- Create a safe and secure networking environment

##### Solution

- Business Access Points
- VPN Firewall

##### Benefits

- Secure and stable network to residents
- Simple management of access and user permissions
- Wide-ranging coverage
- Ability to monitor and record activity
- Compliant with local regulations



#### Challenges

Vadi54's stated goal is to be recognized as the most comfortable and luxurious coed dormitory in the country. The objective of the project is to organize wired and wireless network access within this living space. This will create better opportunities for the students to receive a quality education at Sakarya University, while eliminating cyber security problems and providing a stable Internet access for the residents.

In addition, the project must be in compliance with Turkey's Internet Act, also known as Law No. 5651, which outlines a broad set of regulations for Internet use and content.

#### Background

Vadi54 was designed to be a luxury dormitory providing top-level comfort for the students receiving education at Sakarya University and neighboring institutions in Sakarya, Turkey. The project provides accommodation for a total of 420 coed students in single and double rooms.

Creating a quality, comfortable and safe living space for the students, Vadi54 strives to be the most livable and luxurious dormitory in Sakarya. The project occupies over 7,000 square meters of space and began operations during the 2014-2015 academic year.

#### Solutions and Benefits

A comprehensive analysis was conducted throughout the project by solution partner Delta Computer Ltd. This enabled the establishment of wireless and wired connectivity through end-to-end network solutions provided by ZyXEL, while taking into account necessary measures for possible security and cyber safety issues. Within the scope of the project, trouble-free Internet access and connectivity was secured for all users inside the dormitory with the installation of 50 ZyXEL NWA1100-N access points in strategic locations. In addition, two ZyWALL 310 VPN firewalls supplied by ZyXEL help manage Internet access for students residing in or visiting the dormitory, ensuring compliance with Turkey's Law No. 5651.

Vadi54 improved the quality of Internet access and enhanced service with ZyXEL solutions, keeping pace with residents' increased demand for network connectivity. This integrates new opportunities for research, entertainment and social interaction into the dormitory's other offerings. To ensure secure and stable wireless and wired network access in every part of the dormitory, trouble-free Internet access has been achieved for all users. The ZyXEL NWA1100-N APs provide easy deployment and management. Certified WPA/WPA2 support offers strict network protection. The APs 802.11n Wi-Fi standard also allows greater coverage without using additional power.

The ZyWALL 310 VPN Firewall has made it possible to regulate and record Internet use pursuant to the provisions of Turkey's Internet Act, as well as maintain a safe and secure network environment for users. Thanks to these security measures, both requirements under the Law No. 5651 are satisfied and illegal Internet access is prevented throughout the dormitory.

## Products Used



### ZyWALL 310 VPN Firewall

- Multi-core CPUs deliver up to 5 Gbps firewall throughput and 650 Mbps VPN throughput
- Up to 14x faster firewall performance and 5.0x faster VPN performance of preceding models
- More secure VPN connections with SHA-2 encryption
- VPN High Availability (HA) with dual-WAN failover and fallback support
- L2TP support for iOS, Android and Windows mobile devices
- Auto-provisioned client-to-site IPsec setup with Easy VPN



### NWA1100-N Wireless N Business WLAN 1000 Series PoE Access Point

- Multiple operating modes for most flexible deployments
- IEEE 802.3af PoE supports easy installation for administrators
- Environmental friendly with IEEE 802.11az energy efficient Ethernet and WMM Power Save
- 4 Multiple BSSID to provide different service level
- WEP/WPA/ WPA2 supported for complete network protection
- Various management interfaces to merge into existing business networks

### 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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