ZyXEL

Success Story

ZyXEL Solution Provides Istanbul Student Hostel with Convenient and Secure Network Access

"ZyXEL places high importance on the education and accommodation sector. To allow our country's youth population to achieve its potential, it is very important for students to have access to equal educational opportunity by making the most out of the advantages of the Internet. We are very happy in undertaking such projects with our ZyPartner members by making no compromises on time, cost, and quality, and helping Konforist Edu.Suites Male Student Hostel achieve a perfect network access infrastructure."

Erdem Timur Koca
Channel Project Sales Manager

Overview

Customer Name
Konforist Edu. Suites Male Student Hostel

Customer Industry
Hospitality

Challenges
• Update the network infrastructure by using cutting-edge technology products and solutions
• Offer uninterrupted, stable, and secure Internet access for all students and employees
• Compatibility of the solution with the requirements of Turkey's Law No. 5651 Internet regulations
• Future-proof scalability to evolve with increased usage demand in the future

Solution
• Next-Gen Unified Security Gateway Extreme Series
• 802.11 a/b/g/n Dual-Radio Unified Access Point
• Wireless LAN Controller
• GbE L2 Switch

Benefits
• Future-proof network infrastructure
• Fast deployment with easy installation
• Stable and high-speed Internet access
• Security features compatible with Law No. 5651
• Back-up for enhanced security

Background

Opened during the 2014-2015 academic year, the Konforist Edu. Suites Male Student Hostel provides a state-of-the-art living space for male students in Istanbul, Turkey. The resident facility occupies an area of 6,000 square meters in city's Eyüp district. Along with residential space, facilities include a café/restaurant, cinema, gym, study hall and lounge, in addition to other entertainment, leisure, and living services.
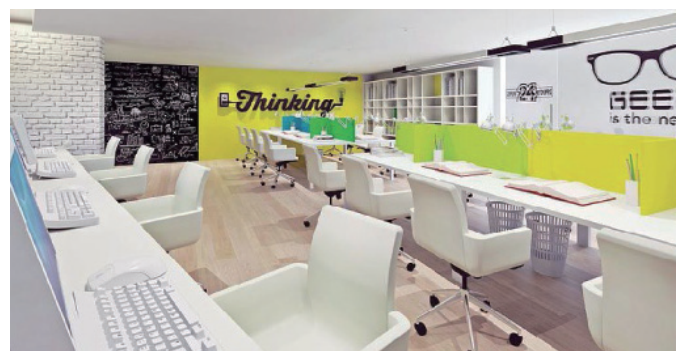
Challenges

In Turkey, demand for fast, stable, and powerful Internet connectivity increases daily as a result of ADSL2 and VDSL transformation taking shape throughout the country. In particular, the youth population pushes Internet usage to the limit in pursuit of a modern education. Students make the most of the equal opportunity and access to education resources offered by Internet. In this context, it is very important for student hostels and educational institutions to evaluate their existing Internet infrastructure to ensure the fastest, most stable, and secure Internet access possible for their students.

However, as Internet infrastructure planning is often carried out based around dated technologies without regard for the modernity of hostel buildings and educational institutions, upgrading according to evolving needs becomes unavoidable.

Solutions and Benefits

ZyXEL experts conducted a comprehensive analysis of building security and indoor Internet sharing needs in order to establish wired and wireless networks with cutting-edge ZyXEL products and end-to-end network solutions. Within the scope of this project, ZyXEL Layer-2 manageable GS2210 Series GbE L2 Switch network switches were used to provide fast and reliable network access in Konforist Edu.Suites Male Student Hostel. The hostel building and facilities were provided with robust and stable connectivity through numerous products and solutions, such as the ZyXEL NWA5123-NI access point and NXC5500 wireless LAN controller.

Network security and easy management was established with the help of the ZyXEL USG1100 Next-Gen Unified Security Gateway Extreme Series, regulating network access.

ZyXEL undertook a mission to offer premium scalable products and services for the evolving demands of today's network solutions market. It achieves this goal by not only offering product and installation support, but also carrying out network planning and project consultation with the members of ZyPartner, the ZyXEL business partnership program.

Likewise, logging of visited Internet sites was managed by keeping track of IP and MAC addresses of users via a ZyXEL Log Analyzer 250 log record analysis device. Both of these feature ensure compliance with the requirements of Law No. 5651, blocking illegal Internet activity within the hostel. Students are allowed to log in with predefined credentials by means of the ZyXEL hotspot solution.

Through this project, Konforist Edu.Suites Male Student Hostel received a modern, stable, and secure network solution thanks to the superior standards for performance and reliability of ZyXEL products and services.

Products Used

USG1100
Next-Gen Unified Security Gateway Extreme Series

- Anti-malware protection with firewall, anti-virus, anti-spam, content filtering, IDP, next-generation applicatio intelligence and SSL inspection
- Robust SSL, IPSec and L2TP over IPSec VPN connectivity and VPN high availability (HA)
- Unified security policy streamlines the configuration and management efforts
- Built-in WLAN controller for centralized AP management and effortless WLAN scalability of up to 18 APs

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
• 2.4 GHz and 5 GHz concurrent dual-band
• High-performance RF technology: Tx Beamforming
  and Rx Maximum Likelihood Demodulation (MLD)
• ZyXEL One Network is supported

NXC5500
Wireless LAN Controller

• Centralized WLAN management and auto provisioning
• Manages up to 512 APs with granular access control
• ZyMesh simplifies complex, inconvenient cabling
  Wi-Fi Deployments
• Comprehensive features for WLAN performance
  optimization and always-on Wi-Fi connectivity
• Wireless LAN performance optimization via dynamic
  channel selection and load balancing

GS2210 Series
24-port GbE L2 Switch

• Fully managed Layer 2 switching solution
• GbE RJ-45 and GbE SFP connectivity
• Complies with IEEE 802.3af PoE and 802.3at PoE Plus
• High 375 W power budget (for PoE models)
• L2 multicast, IGMP snooping, MVR and voice VLAN
  for convergence
• Enhanced network protection with IP source guard,
  DHCP snooping, ARP inspection, CPU protection
• L2, L3 and L4 filtering, MAC freeze, port isolation,
  guest VLAN for improved isolation and access control
• Future-proofed with IPv6 support
• Supports ZON Utility and ZyXEL One Network inter-device
  features for easier, more efficient setup and management

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.