ZyXEL

Success Story

Turkish Teacher's Lodge and Art School Goes Wireless with ZyXEL Solution

Overview

Customer Name
Tokat Teacher's Lodge and Evening
Art School

Customer Industry
Hospitality

Challenges
• Provide guests with Internet access
• Connectivity must be seamless and stable
• Internet service must be safe and secure
• Solution must comply with regulations

Solutions
• Unified Security Gateway
• Unified Access Gateway
• Wireless Access Point
• Smart Managed Switch

Benefits
• Secure and safe network
• Centralized management
• Seamless wireless connectivity
• Compliance with local network regulations

Background

Tokat Teacher's Lodge and Evening Art School is a facility located in the center of Tokat province, Turkey, which combines the services of art instruction and lodging. The facility has a capacity of 52 rooms and 113 beds. Tokat Teacher's Lodge and Evening Art School provides accommodation services for guests who visit the city, meeting and event space, as well as space for evening classes.

Challenges

The goal of the project was to regulate the current network structure of Tokat Teacher's Lodge and Evening Art School. Along with providing lodging for visitors to the city, the facility offers a range of services, including secure and stable Internet access. The project required Internet access in the facility's 53 guest rooms and common areas. The Internet solution had to comply with the requirements of Regulation No. 5651, which governs Internet services, and also stipulates documentation of the entire installation processes.

Solutions and Benefits

Utilizing cutting-edge technology, products, and end-to-end network solutions provided by ZyXEL, the project provided Tokat Teacher's Lodge and Evening Art School with a secure network infrastructure that could be managed centrally. MEB Computer, a member of solution partner ZyXEL's ZyPartner program, planned and implemented the installation of wireless access points (APs) to provide wireless Internet access to all users. Internet security was provided throughout the facility with a firewall, ensuring conformity with Regulation No. 5651 via Log Analyzer.

After the facility's needs were analyzed, the required solution elements were selected from ZyXEL's professional product range. Since security was a critical part of the planned solution, the local network's firewall would be based around ZyXEL's next-generation advanced series USG310 Unified Security Gateway. A wireless LAN was created and Internet access established — along with a system for managing user names and passwords — via the UAG4100 Unified Access Gateway. This device also provided WLAN connectivity to printers on the network. NWA1100-NH wireless access points further extended wireless access to individual rooms throughout the facility. Configuration was simplified with the ZyXEL ONE Network Utility (ZON) and ZyXEL AP Configurator (ZAC) utility software, which were provided by ZyXEL.

To provide guests with additional layer of security, a separate Internet line was utilized for secure access via the USG310, limiting network interference. IP Internet traffic inside the facility was logged using Log Analyzer software in accordance with Turkey's Regulation No. 5651. GS1900-24HP GbE smart managed switches were used to manage energy and network usage over all wireless access points.

Following the completion of the project, all visitors to Tokat Teacher's Lodge and Evening Art School are now able to enjoy stable and secure Internet access.

"Today's educational establishments have a growing need for stable and secure Internet networks. Teacher's lounges provide important accommodation services for civil servants and must be continuously reconfigured and modernized. In these kinds of facilities, the process of establishing a network infrastructure should be carried out with the utmost care. We are extremely grateful to have had the opportunity to join up with MEB Computer, a member of our ZyPartner solution partner program, and work together to provide Tokat Teacher's Lodge and Evening Art School with a modern and robust network infrastructure, which will fulfill the requirements of the 21st century." says Erdem Timur Koca, ZyXEL Channel Project Sales Manager.

Product Used

NWA1100-NH
802.11 b/g/n Long Range PoE Access Point

- High output power of up to 28 dBm delivers extended coverage
- 2 external antennas with high 5 dBi gain optimized for mobile devices
- Fast 802.11n Wi-Fi with speed up to 300 Mbps improves transmission of large files or videos
- Easy deployment via client mode or repeater AP and IEEE 802.3af PoE support
- ZON Utility and ZAC minimize repetitive configuration processes and efforts
- Certified WPA2 Enterprise, access control management and user traffic control for strict network protection

GS1900-24HP
24-port GbE Smart Managed Switch

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

USG310
Unified Security Gateway

- High-performance, high-value Next Generation Firewall (NGFW) for small and medium-sized businesses
- Anti-malware protection with firewall, anti-virus, anti-spam, content filtering, IDP, next-generation application intelligence and SSL inspection
- Robust SSL, IPSec and L2TP over IPSec VPN connectivity and VPN high availability (HA)
- Built-in WLAN controller for centralized AP management and effortless WLAN scalability of up to 18 APs
- Comprehensive mobile broadband USB modem compatibility and multi-WAN load-balancing, failover and fall back support

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
- Built-in WLAN controller, supports 8 APs by default and up to 16 APs via license upgrade
- Integrated account generator, Web-based authentication portal and billing system
- Supports external RADIUS servers
- Per account bandwidth management
- SP350E Service Gateway Printer enables one-click account and billing generation
- SMS ticketing with ViaNett protocol support

SP350E
Service Gateway Printer

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.