



## Success Story

### MÜSİAD establishes stable and secure network infrastructure with ZyXEL Solution

## Overview

#### Customer Name

MÜSİAD (Independent Industrialists' and Businessmen's Association)

#### Customer Industry

Business Association

#### Challenges

- Provide wireless network infrastructure
- Solution must be stable and secure
- Network must be easy to use and manage

#### Solutions

- 802.11 a/b/g/n Dual-Radio Unified Access Point
- 24-port GbE L2+ Switch
- Wireless LAN Controller

#### Benefits

- PoE eliminates need for additional adaptors
- Good value for investment
- User-friendly design
- Blends well into environment
- Dual-channel design can handle heavy user traffic
- Future-proof and scalable

## Background

The Independent Industrialists' and Businessmen's Association (MÜSİAD), was created with the goal of protecting Turkey's local business interests and international values, as well as promoting its effectiveness in the region and positive

image around the world. The business association operates 35 branches with 14 representatives throughout Turkey. The organization also has 129 contact points in 49 different countries and more than 6,500 members.

## Challenges

A new wireless network infrastructure was needed to provide seamless and secure wireless communication and data transfer for the Independent Industrialists' and

Businessmen's Association of Turkey. The solution would have to connect 35 branch offices while offering Internet access that is secure, stable, and easy to use and manage.



## Solutions and Benefits

The association aimed to create a wireless network in line with its needs and preferred to work with ZyXEL. The company offered a performance-, cost-and efficiency-oriented solution for the new network infrastructure that was in line with the needs of the association. All necessary installation and configuration work was carried out with the help of ZyXEL solution partner Information Systems.

ZyXEL NWA5123-NI professional wireless access point products were selected to provide Internet connectivity in all corridors, rooms, and meeting areas. In addition, 24-port Gigabit L2+ PoE switches GS3700-24HP and NXC 2500 wireless LAN controllers were deployed.

ZyXEL NWA5123-NI Dual-Radio Unified Access Point allows

all users within the association's facilities to access the Internet simply and seamlessly through simultaneous 2.4 GHz and 5 GHz signal coverage.

The unobtrusive ceiling-mounted "smoke detector" design of the NWA5120 series offers better coverage and powerful performance in a package that easily blends into the environment. The APs provide a complete professional solution for small- and medium-sized enterprises that are controlled by ZyXEL NXC2500 Wireless LAN Controller.

The Next-generation ZyXEL 3700 Series switches were also used in the project. With support for PoE (Power Over Ethernet) technology, the need for additional adapters for wireless access points was eliminated.

## Product Used



### 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



### GS3700-24HP 24-port Gigabit L2+ PoE Switch

- Full Layer 2 feature set with Layer 3 features including static routing policy-based routing, VRRP and ECMP support
- Four (4) Gigabit SFP uplink flexibility
- Hot-swappable power supply and fan modules
- Internal redundant power supply design
- High PoE power budget up to 1000 W
- ZyXEL One Network is supported



## NXC2500 Wireless LAN Controller

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

### 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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