

## Success Story

### Turkish Metal Manufacturer Links Operations with Zyxel Solution



Manufacturing

INDUSTRY



CUSTOMER

Aveks



REGION

Turkey



SOLUTIONS

Zyxel  
Wireless  
Solution

## Overview

### Challenges

- Upgrade companies network infrastructure to provide secure and stable connectivity between headquarters and branches
- Improve bandwidth to deliver higher network speeds
- Provide ability to log user activity via Turkish ID numbers

### Benefits

- A site-to-site VPN structure was established between the headquarters and offices
- Servers were connected to the network with 10GB SPFs, and high bandwidth at local network traffic was achieved
- Guest and local network traffic were separated via VLANs
- The logging system, as required per Law No. 5651, was established. Internet access to guests using their Turkish ID numbers

### Solutions

- Zyxel wireless solution

“Our company has offices in seven countries, including Turkey, China, India, Switzerland, Ukraine, UAE, Saudi Arabia, and Egypt. Our headquarters (Dudullu) and offices (Kozyatağı and Gebze) are located in Istanbul. We needed to upgrade the network infrastructure of our company, which provides products worldwide, to a secure infrastructure with a higher bandwidth. We also needed a system that allows our guests to use our Internet resources with their Turkish ID numbers, and which logs their use. With this project, implemented by MEB Computer, a partner of Zyxel, we were able to establish a secure network connection between our headquarters and offices with a high bandwidth. We were also able to implement a system that keeps logs of guest access.”

Murat Erdoğan  
IT Manager, Aveks

## Background

Established in 1995, industrial manufacturing and steel raw material supplier Aveks provides services to its customers engaged in ferrous, steel, and non-ferrous industries in Turkey, Europe, the Commonwealth of Independent States (CIS), and the Middle East. The company maintains offices and warehouses in Istanbul, Beijing (China), Calcutta (India), Geneva (Switzerland), Mykolaiv (Ukraine), Dubai (UAE), Dammam (Saudi Arabia), and Cairo (Egypt).

## Challenges

Aveks required secure and reliable connectivity between its headquarters in Istanbul and offices in seven different countries, and wanted to be able to manage the entire network centrally to remain competitive in the competitive environment in which it operates. Additionally, it was necessary to separate the Internet access provided to guests from the network used by the staff. The company also needed a system that keeps the logs as required by Law No. 5651. To meet all the Aveks's requirements, a VPN and VLAN scenario was chosen for the communication of the three offices in Istanbul to the other offices around the world had to be established and installed.

## Solutions and Benefits

Zyxel provided the solution required by Aveks with the help of MEB Computer, one of Zyxel's local ZyPartners. VPN and VLAN scenarios were prepared and configured according to the needs of the client. A site-to-site VPN structure was established between the headquarters and offices of Aveks, allowing direct network communication. XGS-3700 gigabit L2+ switches were stacked to provide high bandwidth and enable checking by a single address. Servers used for installation were connected to the network system via 10GB SFPs, allowing high-bandwidth local network traffic to be achieved. A trouble-free coverage area was established using the WAC6502D-S 802.11 ac access points equipped with smart antenna technology. The guest and local networks were separated with VLANs. Law No. 5651 logging requirements were fulfilled, and guests can access the Internet with their Turkish ID numbers.

"We created a new network infrastructure using Zyxel solutions from end to end, connecting three offices of

Aveks supplies metallurgical elements and minerals, cored wires, abrasives, refractory products and chemicals, ferrous materials, alloys, noble alloys, coke and re-sifting materials to ferrous, steel, and non-ferrous industries. The company is among the most important suppliers in Turkey and the other countries in which it operates.



Aveks located in Istanbul and separating the guest network from the local network," explained Mustafa Nur, General Manager of MEB Computer.

"We are happy to have completed the project in a timely manner and fulfilled the requirements of our customer with state-of-the-art solutions," said Ömer Faruk Erünsal, corporate solutions channel sales manager of Zyxel Turkey. "As Zyxel Turkey, we provide technical support to our customers not only at installation but also during the lifetime of our products, and we are able to intervene immediately in case of any problems. We will continue assisting Aveks at every step of their journey."

By upgrading their network infrastructure with state-of-the-art Zyxel products and solutions, Aveks increased their productivity and service quality to a new level

## Products Used

### ZyWALL USG310 • Unified Security Gateway



- Unified Security Firewall gateway Firewall for small and medium-sized businesses
- Complete network protection with firewall, Anti-Virus, AntiSpam, Content Filtering 2.0, IDP, Application Patrol
- Unified security policy
- Cloud Helper provides friendly firmware upgrade
- Device HA Pro ensures smart handover
- Hotspot management is supported
- Facebook WiFi, Intelligence social media authentication

### XGS3700 • 24/48-port GbE L2+ Switch



- Full Layer 2 feature set with Layer 3 features including static routing, policy-based routing, VRRP and ECMP support
- Four (4) 10GbE SFP+ uplink flexibility
- Hot-swappable power supply
- Internal redundant power supply design
- Physical stacking up to 8 units and 384 Gigabit ports through 2 standard 10G SFP+ ports

### GS2210-48 • 48-port GbE L2 Switch



- 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

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



- Zyxel smart antenna with more than 700 optimized antenna patterns provides breakthrough performance anywhere
- Ideal for high-density and interference-laden indoor environments
- Advanced IEEE 802.11ac offers up to 1.1Gbps combined data rates
- Industry-leading Rx sensitivity as low as -102 dBm
- AP Flex™, DCS and tool-less bracket design streamline deployment

### About Zyxel Communications

Focused on innovation and customer-centricity, Zyxel Communications has been connecting people to the Internet for nearly 30 years. Our ability to adapt and innovate with networking technology places us at the forefront of creating connectivity for telcos and service providers, business and home users. Zyxel is building the networks of tomorrow, unlocking potential, and meeting the needs of the modern workplace — powering people at work, life, and play. Zyxel, Your Networking Ally.

Copyright © 2018 Zyxel Communications Corp. All rights reserved. Zyxel, Zyxel logo are registered trademarks of Zyxel Communications Corp. All other brands, product names, or trademarks mentioned are the property of their respective owners. All specifications are subject to change without notice.