



Success Story

Istanbul Company's Network Packs a Punch with Zyxel Switching Solutions



Manufacturing

INDUSTRY



CUSTOMER

PilenPak
Packaging



COUNTRY

Turkey



SOLUTIONS

Switching
Solution

Overview

Challenges

- Company's complex factory structure increases likelihood of WiFi dead spots
- Internet access for company staff and clients must be separated
- Record log data as per Turkish internet law

Benefits

- Successfully created separate employee and client networks
- Network access authentication is based on Turkish national ID numbers
- Servers connect to the network with 10GB SFPs to allow for a fast, high-bandwidth user experience

Solution

- Zyxel Switching Solution

"We needed to upgrade our company's network infrastructure so as to achieve secure, high-bandwidth capability. Additionally, we needed the ability to log user data by Turkish ID number to be in accord with government regulations. After working with local Zyxel partner Arma Bilisim, we now have the state-of-the-art network we desired."

Mesut Sönmez
PilenPak Packaging, IT Manager

Background

Established in 1988, PilenPak is an integrated converter corporation headquartered in Manisa, Istanbul. Designing and producing innovative, tailor-made packaging for its clients, the company has quickly become an industry leader. In addition to Rotogravure and Flexo printing, PilenPak offers services such as pre-press and cylinder scraping, ink processing, and PE extrusion.

Challenges

The need for stronger, more potent network infrastructure is increasing day by day, especially for organizations like PilenPak with expansive plants and a large number of employees. The company realized that setting up faster and more reliable VLAN networks would be one way to resolve this problem. In this way, the company would be able to create distinct zones of access for network managers, employees, and clients.

Being in Turkey, this project also involved another requirement: the government mandate that all network traffic be collected, logged, and linked to each user's national ID number, a daunting task that would put Zyxel's smart switch technology to the test.

Solutions and Benefits

Arma Bilisim, a top Zyxel regional partner, was on the case. It developed a wired and wireless network solution comprising three of Zyxel's powerful switch products. One was the XGS3700-48HP Gigabit managed switch with 10G uplink, whose no-single-point-of-failure hardware and software design provides the resiliency needed for non-stop operation. The others were the XGS2210-28, providing agile traffic control for converged networking applications, and the GS1920-48HP, which includes rich L2 features such as LACP, advanced QoS, VLAN, ACL, and

In order to meet the growing demand for faster and better-quality service, the company has continued to expand and invest in its production processes and infrastructure. By choosing Zyxel solutions, PilenPak was able to fully upgrade its network and communications equipment, thereby increasing productivity and bringing its service to the highest level.



multicast IGMP snooping managed through an intuitive, web-based interface. The staff and client networks were separated with VLANs, and as per Turkey's internet regulations, the logging requirements were fulfilled.

"Zyxel's state-of-the-art network solutions have been implemented in a very short time," stated Cem Hisim, Arma Bilisim project manager.

"The local Zyxel technical support is also able to provide immediate assistance at the first sign of any problems.

Products Used

XGS3700-48HP • L2+ Managed PoE Switch with 10G Uplink



- Physical stacking up to 8 units and 384 Gigabit ports
- Four 10GbE SFP+ uplink flexibility
- Internal and hot-swappable power supply design
- PoE model supports IEEE 802.3at with high PoE power budget up to 1000W

XGS2210-28 • 24-port Gigabit L2 Switch with 10G Uplink



- Physical stacking up to 2 units and 96 Gigabit ports
- Gigabit connectivity plus four SFP+ ports
- VLAN communication through access switch by static routing feature
- Supports sFlow that analyzes client behavior

GS1920-48HP • 48-Port Gigabit Smart Managed PoE Switch



- Easy-to-manage, rich L2 features with user-friendly, browser-based management GUI
- Supports PoE+ standard to offer 30 W per port and a high PoE power budget of 375 W
- Smart fan design ensures silent operation in both desktop and rack-mounted environments
- Supports ZON Utility and Smart Connect to simplify network management and maintenance

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.

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