



Success Story

Turkish Plastics Firm Sleeps Easier After Zyxel Beefs up its Security Network



Manufacturing

INDUSTRY



CUSTOMER

Zeugma
Plastic



COUNTRY

Turkey



SOLUTIONS

Zyxel Wire &
Wireless
Solution

Overview

Challenges

- Provide reliable connectivity throughout facility
- Open up closed-network security camera system to enable better monitoring
- Implement new, easy-to-operate wireless network infrastructure
- New solutions must be compatible with existing infrastructure with zero downtime

Benefits

- Turnkey network solution deployed
- Security headquarters receives live surveillance camera feeds from multiple locations countywide
- Unified security gateway offers uninterrupted protection
- Remote management video surveillance
- Solution integrates seamlessly with legacy system

Solution

- Zyxel Wired and Wireless Solution

“At Zeugma Plastic, we work with the world's leading petrochemical plants and needed to be able to observe all of our facilities from our security headquarters. We're very pleased to have worked with [Zyxel partner] Mefapex Bilişim. They deployed our new network equipment and security camera system with great mastery and within the projected time frame. We're also pleased to have established the network using products from Zyxel, which deserves great praise for its technology.”

Gokhan Gul
Financial Director, Zeugma Plastic

Background

Running warehouses and supply depots across the country, Zeugma Plastic is a top player in Turkey's materials sector. Since being founded in 2005, it has developed close partnerships with world leaders in the plastics supply chain, all with the aim of supplying products to customers as quickly as possible in every region it serves.

As its depots nationwide provide raw materials for various petrochemical products, security is an ever-present concern. And in the 21st century, ensuring security requires up-to-date technology. Closed-network security cameras are no longer sufficient; live surveillance feeds must be accessible remotely via a secure network to ensure they're being seen by the right pairs of eyes at the right time.

Challenges

Simply put, Zeugma's aging network infrastructure was insufficient for its current demands. Furthermore, the recurring addition of new bits and pieces to the server over the past few years had resulted in a fragile and complicated system that often failed, with a great deal of tedious work required to repair it after each failure.

Perhaps even more serious was the state of the on-site security setup: the surveillance systems in place at Zeugma's various sites all utilized outdated technology and did not support central monitoring.

Clearly, a major overhaul was needed – for both Zeugma's server equipment and its security camera systems. This called for deploying and unifying new

Solutions and Benefits

Mefapex conducted capacity and signal analysis at the plastics firm's sites and calculated the equipment necessary for optimal network performance. Zyxel solutions were used to update the network and server infrastructure, and all the work was completed on schedule.

At the core of the overhaul was a switching solution to unify and centrally control all network traffic. It was implemented with two Zyxel **GS1920 Series smart managed switches**, which are designed specifically for SMBs, and an **RGS200-12P PoE switch**, whose ruggedized design makes it tough enough to withstand outdoor environments. To safeguard the network, its users, and their data, a



infrastructure across four different cities, each hundreds of kilometers apart. The top priority: for Zeugma to be able to centrally monitor its camera feeds remotely from its security headquarters.

And, considering the security sensitivities of the case, it was necessary that there be no interruption to surveillance – the new infrastructure had to be installed and switched on seamlessly, with no downtime between the old and new systems.

Zeugma knew that the team for the job was Mefapex Bilişim, a local system integrator and longtime Zyxel partner.

ZyWALL USG310 unified security gateway was deployed. With advanced failover capabilities, it delivers the continuous protection Zeugma needs. Finally, a wireless network was implemented with an NXC2500 WLAN controller and various access points, including 802.11ac dual-radio APs with smart antenna technology that can be effortlessly converted from standalone mode to being centrally managed and significantly improves the overall performance of the WiFi network.

Now, thanks to the WLAN controller, Zeugma has intelligent infrastructure that automatically adjusts the signal strengths of the access points according to load distribution

and that automatically optimizes the system, making dead spots a thing of the past.

“We offered a turnkey solution comprising infrastructure that can be centrally monitored and managed,” Mefapex general manager Faik Ozturk said.

“We also implemented a security camera system that covers all [of Zeugma’s] facilities. With this scalable and remotely manageable network infrastructure, we’ve established a network that will continue to serve our client for years to come.”

Products Used

ZyWALL USG310 • Unified Security Gateway



- Unified Security Gateway Firewall for small- and medium-sized businesses
- Complete network protection with firewall, Anti-Virus, Anti-Spam, Content Filtering 2.0, IDP, and Application Patrol
- Unified security policy
- Cloud Helper makes firmware upgrades a breeze
- Device HA Pro ensures smart handover
- Hotspot management supported
- Facebook WiFi for intelligent social media authentication

NXC2500 • Wireless LAN Controller



- Auto provisioning and centralized management of up to 64* APs
- Zyxel Wireless Optimizer for easily planning, deployment, and maintenance
- Advanced ZyMesh technology for simplified AP deployment and WLAN extension
- Enhanced RF management with auto healing
- Flexible traffic forwarding with tunnel and distributed modes
- Comprehensive guest network management and granular access control

*Management of 64 APs is supported with firmware version V4.10 and above

GS1920 Series • 24/48-Port Gigabit Smart-Managed PoE Switch



- Easy-to-manage rich L2 features with user-friendly Web 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 offers silent operation in both desktop and rack-mounted environments
- Supports ZON Utility and Smart Connect to simplify network management and maintenance

RGS200-12P • 12-Port Gigabit Managed PoE Switch



- Wide-ranging operating temperature design from -40°C to 75°C
- Fanless design and compact mechanism with IP30 standard
- Redundant ring technology with quick failover in less than 20 ms
- Dual power inputs for high network resilience
- Full PoE+ support and high PoE power budget of up to 240 W

WAC6103D-I • 802.11ac Dual-Radio Dual-Optimized Antenna 3x3 Access Point



- Dual-optimized antenna allows pattern optimization adapting to wall- or ceiling-mounted installation
- 3x3 802.11ac supports combined data rates of up to 1.75 Gbps
- Load balancing on both standalone and managed modes
- Dual image support for reliable WiFi connectivity
- Zyxel One Network for standalone AP management

WAC6502D-S • 802.11ac Dual-Radio Smart Antenna 3x3 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 combined data rates of up to 1.2 Gbps
- Industry-leading Rx sensitivity as low as -102 dBm
- AP Flex™, DCS, and tool-less bracket design for streamlined deployment

NWA5123-AC • 802.11ac Dual-Radio Unified Access Point



- Ceiling- and wall-mountable design with optimized RF performance
- 2-in-1 standalone/managed AP design
- CAPWAP management supported
- Enterprise-class 2x2 802.11ac AP supports combined data rates of up to 1,200 Mbps
- Simple, speedy deployment with APFlex™ and Zyxel One Network utilities

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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