



Success Story

Turkish Shipyard Company Launches Network with Zyxel Wireless Solution



SMB



Eregli
Shipyard



Turkey



Zyxel
wireless
solution

Overview

Challenges

- Signal problems due to extensive use of metals in the shipyard
- Large area requiring indoor and outdoor coverage
- Heavy equipment use and electrical discharge creates potential interference

Benefits

- Complete signal coverage indoors and outdoors
- Stable network with no dead zones or interference
- Fast high-performance data transfer rates

Solutions

- Wireless LAN Controller
- 802.11ac Dual Radio External Antenna 3x3 Outdoor Access Point
- 802.11ac Dual Radio External Antenna 2x2 Access Point

“Although our work requires a high density of metal onsite, Zyxel solutions provided the best possible network access by preventing signal loss and signal weakness. We thank all our partners who contributed to the project.”

Bilal ARI
Eregli Shipyard IT Manager

Background

Eregli Shipyard has been in business for about 10 years. The shipyard occupies 133,075 square meters of reclaimed land in the port city of Eregli, Turkey on the Black Sea. The facility currently employs about 500 workers and management staff, which is expected to grow to about 2,500 employees when operating at full capacity.



Challenges

Network connectivity is a must for every modern industry, including the heavy manufacturing sector. Manufacturing facilities, however, face unique challenges when it comes to installing and maintaining reliable wireless networks. The large size of such operations, not to mention barriers such as walls and heavy equipment can block signals. Electrical discharges from some tools and machinery can further cause interference. Workers on the factory floor are often mobile and have to rely on portable wireless devices to perform key tasks.

These were all challenges Eregli Shipyard faced when creating a wireless network that workers and management could use to communicate and perform their shipbuilding duties effectively and efficiently. To overcome this challenge, the shipyard turned to local Zyxel partner Sürat Teknoloji. They knew just what Zyxel products were needed to create a solution that would provide seamless and stable connectivity throughout the shipbuilding plant.

Solutions and Benefits

Sürat Teknoloji performed an extensive analysis to determine how to best meet the needs of the client with regards to stability, security, and network performance. A suite of Zyxel networking products was chosen to provide trouble-free coverage for the entire area of the shipyard. This included Zyxel branded indoor and outdoor wireless access points (APs), which were installed throughout the facility. Although dense metal structures can impair Wi-Fi signals, Zyxel products provided an accurate and clean coverage area through the use of DSC technology. The wireless network is managed with Zyxel NXC 2500 WLAN controller and includes high-performance APs featuring the latest high-speed AC technology.

Sürat Teknoloji chose the WAC6553D-E 802.11ac Dual

Radio External Antenna Outdoor Access Points to link outdoor areas with the shipyard network. The APs' feature fast roaming to deliver high-speed data rates and uninterrupted signal strength anywhere workers may roam. Indoor areas are covered by WAC6502D-E 802.11ac Dual Radio Unified Pro Access Point, featuring high output power and unequalled receive sensitivity to offer standout performance and coverage.

"We at Eregli Shipyard are one of the corporations that represent our country successfully in the manufacturing sector by supporting our country's economy. We met our need for outdoor and indoor networking at our location in Eregli in a short time using Zyxel's stable, reliable solutions." said Bilal ARI, IT Manager at Eregli Shipyard.

Products Used

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

WAC6553D-E • 802.11ac Dual Radio External Antenna 3x3 Outdoor Access Point



- Designed with IP66-rated weather protection which is ideal for harsh outdoor environments
- Advanced IEEE 802.11ac delivers up to 1.75 Gbps combined data rates
- Industry-leading receive sensitivity as low as -102 dBm
- APFlex™, and DCS streamline deployment
- ZyXel One Network is supported

WAC6502D-E • 802.11ac Dual Radio External Antenna 2x2 Access Point



- Advanced IEEE 802.11ac delivers up to 1.2 Gbps combined data rates
- Industry-leading receive sensitivity as low as -100 dBm
- APFlex™, DCS and tool-less bracket design streamline deployment
- ZyXel One Network is supported

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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