

Success Story

Zykel Uses Its Noodle to Provide Pasta Manufacture with Perfect Network Solution



INDUSTRY

SMB



CUSTOMER

Beşler Pasta



REGION

Turkey



SOLUTIONS

Zykel
wireless
solution

Overview

Challenges

- Establish a sufficient infrastructure to cope with tall walls inside warehouses
- Provide all plant personnel with stable and reliable Internet connectivity
- Ensure that the solution is compliant with the requirements of Turkey's Law 5651 regulating Internet use
- Ensure the scalability of the solution with respect to future expansions

Benefits

- Rapid deployment and trouble-free communication support thanks to easy installation features
- Centralized control and management
- Fast and uninterrupted wireless communication despite structural barriers inside the warehouses
- Stable and fast Internet access
- Security compliant with Law 5651
- Future-proof and scalable

Solutions

- Wireless LAN Controller
- 802.11 a/b/g/n Dual-Radio Unified Access Point

"Zykel is a brand we know of and their products and solutions are always preferred. By the end of the project, we can see that we have selected the right solution."

Bilal Pala
Purchasing and IT Manager, Beşler Pasta

Background

Beşler Pasta (Beşsan Makarna Gıda San. ve Tic. A.Ş.) was founded on July 5, 2004 as part of the Beşler Group's expansion into the pasta segment of the food services industry. The Group had been operating in oil, starch/glucose, and a few other industries in addition to operating the biggest flour factory in Turkey. The Besler Pasta facilities in the Gaziantep First Industrial Zone are comprised of 18,500 square meters of enclosed area and maintain a total complex covering 37,960 square meters. It is one of the largest pasta manufacturers in Turkey, producing 380 tons of output.



Challenges

Today, every competitive industry requires access to fast, stable, and secure networks for both employees and management. The food industry is no different. Like every other industry, successful companies are constantly evolving with the times to provide first-class services to customers and clients. Information systems must be able to operate seamlessly, ensuring that employees can reliably connect and remain connected while performing their tasks. That's why Beşler Pasta wished to enhance the wireless network infrastructure within its warehouses, and selected Zyxel, a leading network technologies company, to make it happen.

The company teamed with Mefapex, a business partner of Zyxel. The new wireless network infrastructure had to be capable of providing uninterrupted and quick commu-

nications, despite the presence of structural barriers, like tall walls in the warehouse. One key requirement was that any new network could be easily controlled and audited in compliance with Turkey's Law 5651, which regulates Internet and network use.

"At Beşler Pasta, we are known for our high-quality products, which always respect people's health. When we select our partners, we care about working with companies that match our values. Stock entry and control are done with handheld terminals at our warehouses in Gaziantep. We needed to select a reliable partner for wireless communication due to having high walls inside our warehouses." said Bilal Pala, Purchasing and IT Manager at Beşler Pasta.

Solutions and Benefits

Zyxel specialists performed an extensive analysis to determine the company's data security and interior Internet roaming requirements before setting up the new wired and wireless networks. Quality networking products and end-to-end solutions provided by Zyxel formed the backbone of the new infrastructure, including the Zyxel NXC2500 wireless LAN controller and Zyxel NWA5123-NI dual-radio unified access points.

The NXC2500 provides centralized management for up to 64 access points. This all-in-one solution includes a host of automated features that make setup and management of a wireless network simple and ensures strict control of

use, which is important when complying with local regulations.

The ceiling and wall-mountable NWA5123-NI help provides complete signal coverage throughout the factory facility. These potent PoE APs utilize concurrent 2.4 GHz and 5 GHz signals for added stability. High-performance RF technologies — Tx beamforming and Rx maximum likelihood demodulation — help overcome structural signal barriers and prevent dead zones, so employees can easily access a wireless signal from anywhere in the facility.

Products 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
- ZyXel One Network is supported

NXC2500 • Wireless LAN Controller



- Centralized management for up to 64* APs
- ZyMesh mitigates complex, inconvenient cabling Wi-Fi deployments
- Client steering enhances efficiency of wireless spectrum utilization
- Auto healing maximizes Wi-Fi service availability
- Seamless integration with external AD, LDAP, RADIUS authentication
- Best investment protection with built-in RADIUS server

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

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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