ZyXEL

Success Story

Italian Food Company Connects Warehouse Staff with ZyXEL Solution

Overview

Customer Name
Barilla

Customer Industry
Food Services

Challenges
• Ensure that the network infrastructure at the food shipping facility is up to date by using state-of-the-art products and solutions
• Provide complete wireless connectivity and coverage to 8,000 m^2 facility with a ceiling height of 15 meters
• Enable wireless communication between handheld terminals used to log orders and notebooks

• Ensure that the solution provided is compliant with the requirements of Law 5651

Solution
• Wireless LAN Controller
• 802.11 a/b/g/n Business Access Point

Benefits
• Rapid deployment and trouble-free communication and support thanks to easy installation features
• Stable and fast Internet access
• Complete signal coverage of spacious facility

• Stable and secure connectivity
• Complies with local network and Internet laws and regulations

Background

Barilla was established in 1877 as a small bakery and pasta shop in Parma, Italy, the homeland of pasta. Since then, it has become one of the leading Italian food companies in the world. Barilla entered the Turkish market in 1994 as the partner of Filiz Pasta, a company owned by the Dogus Group. This partnership has continued until the Dogus Group sold all of their shares to Barilla.

Since 2004, Barilla has invested both in expanding capacity and improving technology in its production facility in Bolu, Turkey. Barilla is still one of the leading food companies in Turkey with 422 employees. Its modern pasta factory utilizes state-of-the-art technologies and a wide distribution network. Barilla produces, imports, and distributes products in Turkey under the Filiz, Barilla, Wasa, and Gran brands.

Challenges

To replace a smaller warehouse, Barilla built a new logistics facility with an overall area of 8,000 m². The company needed to install a wireless network; however, standard APs would not be effective in the new venue as the ceiling is 15 meters high. The proposed network would link handheld terminals used by staff to log orders and notebooks used to communicate wirelessly within the facility.

Barilla decided to overcome these challenges with the help of ZyXEL's technological expertise and superior products. The company worked directly with Makropol Computer, a local IT company and a ZyXEL solution partner. One of the most important requirements was to enable the services provided to be controlled and audited, as well as fully comply with Law 5651, the government regulations governing the Internet in Turkey.

Solutions and Benefits

ZyXEL specialists analyzed data security and interior Internet roaming requirements for the Barilla facility. Next, they devised a plan that would best enable wireless communication for the staff's handheld terminals and notebooks in the spacious warehouse environment. The plan would draw upon the strengths of products and end-to-end network solutions provided by ZyXEL.

Local ZyXEL partner Makropol Computer conducted an exploratory study of the warehouse and decided to deploy a ZyXEL NWA3160-N business access point to enable wireless communication between notebooks used by employees and forklifts. Thanks to the roaming properties of these products, signal loss between APs was eliminated.

The access point was connected to a ZyXEL NXC2500 wireless LAN controller, which would used to manage the AP. The unit provides user-friendly planning, deployment and maintenance of network hardware, as well as automated updating and configuration of connected APs. User accounts can be set up and maintained easily and the device provides support for multiple authentication methods. All of the ZyXEL solutions used in the project comply with Turkey's

ZyXEL channel project sales manager Yavuz Selim Demircan commented on the project, saying: "ZyXEL has a very powerful portfolio of comprehensive solutions, and we can offer excellent services to businesses ranging from manufacturing to hospitals, from universities and dormitory facilities to hotels — all according to their specific needs. We have proven this once again with one of our most recent success stories in the food industry, the Barilla brand. It is important that Barilla, a company that is known worldwide, chose to work with us. By the end of the project, we established a seamless infrastructure inside a warehouse with a ceiling height of 15 meters. We are very happy to have the chance to work with a high-quality brand like Barilla, and to realize an installation with cutting-edge products from ZyXEL."

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

NWA3160-N
802.11 a/b/g/n Business Access Point

- Higher bandwidth and superior performance with 802.11n
- 3-in-1 hybrid AP WLAN including AP controller mode, managed AP mode and standalone AP mode
- Brand new centralized graphic management interface for up to 24 WLAN APs
- Backup redundancy supported to provide reliable connection services
- Secured tunnels for communication between controller and managed AP to prevent leaking of configurations
- Enterprise-class AP functionalities with comprehensive configuration interfaces.
- Built with Low Smoke, Zero Halogen (LSOH) materials for plenum rating for UL 2043 support

About ZyXEL Communications

ZyXEL Communications Corp., founded in 1989 and headquartered in Taiwan, is the leading provider of complete broadband access solutions. As one of the early modem manufacturers, ZyXEL has gone through transformations in the fast-paced networking industry. Delivering cutting-edge communications innovations to more than 400,000 businesses and more than 100 million consumers throughout the world, today ZyXEL is one of the few companies in the world capable of offering complete networking solutions for Telcos, small to medium-sized businesses, and digital home users for a wide range of deployment scenarios. Telco solutions include Central Office Equipment, Customer Premise Equipment, Wired and Wireless Access Network Devices, and Carrier Switches. SMB and Enterprise solutions include Unified Security Gateways, LAN Switches, WLAN, and IP Telephony. Digital Home solutions include Network Connectivity Devices and Multimedia Solutions.

The company has 1000 employees and distributors in 70 countries, reaching more than 150 regional markets. The ZyXEL Communications Corp. includes 35 subsidiaries and sales offices and two research and development centers worldwide. For more information, visit the company's Website, http://www.zyxel.com.