# ZyXEL



## Success Story

## The Mini Hotel Milano Group Chooses ZyXEL for Its Network Infrastructure and Wireless Coverage

## Overview

**Customer Name**
Mini Hotel Group

**Customer Industry**
Hospitality

**Challenges**
• Provide wireless connectivity to Internet for hotel guests
• Connect staff to hotel management system via tablets
• Create safe and stable network experience
• Solution must be easy to manage and upgrade
• Hardware must blend in with hotel décor

**Solution**
• 802.11 a/b/g/n Unified Access Point
• 802.11 b/g/n Wall-Plate Unified Access Point
• Wireless LAN Controller

**Benefits**
• Secure and stable connection for hotel guests
• Easy connectivity to staff management software
• Centralized management
• Thorough indoor and outdoor signal coverage
• Future-proof for easy upgrade
• Hardware blends well into the environment
• Easy and quick to install in tight schedule

## Background

The Mini Hotel Group in Milan has been synonymous with hospitality for more than 25 years. The group operates a chain of 4- and 3-star quality hotels and residences. The hotels are located strategically throughout Milan: at the city center, in the Fiera Milano City district, at the new Rho-Pero Exhibition Center, at the entrance to the motorway and highway, and in front of the Central Station. The residences are especially welcoming and offer guests privacy. At the same time, they are located in residential areas with excellent public transportation, as well as nearby shopping and commercial centers. The hotel chain's clientele are mainly business customers.

## Challenges

Hotel Tiziano, one of the 4-star facilities of the Mini Hotel Milan group, wanted to provide Wi-Fi service to its customers after renovation work was completed. Coverage had to be homogeneous, guaranteeing mobility within the structure and maximum security for the business users.

The same infrastructure has to provide two virtual networks (VLAN) —one for internal use dedicated to the offices and staff who need to access it via service tablets, and the other for the exclusive use of the customers.
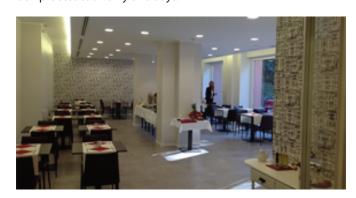
## Solutions and Benefits

Local partner S.O. Roasi in cooperation with ZyXEL developed a new wireless infrastructure made up of 12 professional access points of varying sizes. Smoke-detecting APs were chosen — including ZyXEL's NWA5120 Series, NWA5301-NJ models — as they are easy to install on ceilings and virtually invisible along corridors.

The NWA5120 dual-radio models were chosen for areas dedicated to customers, and the NWA5301-NJ single-radio version was selected for the office areas.

Furthermore, the wall-recessed NWA5301-NJ 802.11 b/g/n Wall-Plate unified access point was chosen for the common and lounge areas in which it was requisite for the devices to be invisible. Finally, high-potential APs were selected for the outdoor areas where it is necessary to manage up from 50 to 60 simultaneous users on a single device. An NXC2500 series wireless LAN controller handles management and daily maintenance of the wireless network, optimizing its operation in real time.

The new wireless infrastructure provides maximum security for connected guests thanks to the professional safety features integrated into the controller. Moreover, the internal network of the hotel was routed on the same hardware as for the employees, who have access to the management and room maintenance software for cleaning and check-in/check-out management via portable tablets. The network can be easily upgraded in the future, and the entire installation process took only two days.

## Products Used

### NWA5120 Series
### 802.11 a/b/g/n Unified Access Point

- Ceiling and wall mountable
- Plenum rated housing
- 2-in-1 standalone/managed AP design
- CAPWAP management supported
- High-performance RF technology: Tx Beamforming and Rx Maximum Likelihood Demodulation (MLD)

### NWA5301-NJ
### 802.11 b/g/n Wall-Plate Unified
### Access Point

• Unique mounting dock design that fits the majority of outlet boxes in the world
• Punch-down Ethernet interface for significantly reduced installation efforts
• 2.4 GHz 802.11n technology providing data rates of up to 300 Mbps
• High-gain antenna that optimizes Wi-Fi services for mobile devices
• Extending phone and IPTV services with integrated interfaces
• LED suppress mode for comfortable room services
• Layer-2 isolation to secure personal data from leaking

### NXC2500
### Wireless LAN Controller

• Centralized management for up to 64* APs
• ZyMesh mitigates complex, inconvenient cabling for 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**

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.