



Success Story

Italian Hotel Connects Guests and Staff with Dual Network Solution

Overview

Customer Name

Elite Hotel Residence

Customer Industry

Hospitality

Challenges

- Upgrade hotel’s wireless infrastructure to meet growing demand
- Provide two separate networks for guests and staff
- Connections must be stable and secure
- Solution should be scalable and and future proof for easy expansion

Solution

- Unified Access Point

- Wireless LAN Controller
- 24-port GbE Smart Managed Switch
- Next Generation Unified Security Gateway-Advanced Series

Benefits

- Separate wired and wireless network provides ease of management and access policy control
- Maximized protection from intrusion and data loss
- Smoke detector-style APs blend into the environment
- Centralized management and remote firmware updating

Background

The Elite Hotel Residence is a four-star hotel located in Mestre, near Venice, Italy. The hotel has six floors, offering different types of rooms and numerous furnished apartments fitted with every form of comfort. All 85 units of the Hotel Residence Elite have recently been renovated to offer hotel guests a wide range of conveniences and services with the aim of meeting the needs of all guests, whether they are vacationing families to executives on business trips.





Challenges

Recently, the hotel needed to upgrade its network infrastructure and adapt to new demands of today's hospitality customers by ensuring fast, stable and reliable wireless connections in all areas of the establishment. Specifically, it was necessary to design two separate networks, with two different Internet connections. The first connection would be a wired network for internal use at the reception desk, staff offices, and the management office.



Solutions and Benefits

With vast experience and deep knowledge of the solutions provided by ZyXEL, local partners Artel designed two network infrastructures that could meet the evolving requirements of the hotel. Specifically, to ensure the safety of the internal network, two firewalls from the USG210 Next Generation Unified Security Gateway-Advanced Series were used. They provided maximum protection from intrusions and attacks, as well as prevention of data loss. These devices were combined with smart managed switches to create an easily configurable, stable, powerful, and flexible network that could be adapted to the needs of the staff.

With the implementation of two separate network infrastructures, the hotel benefits from both a wired high-speed network for staff and a free Wi-Fi network for guests with additional logging features and security options that fulfill compliance requirements. With these features, the hotel is able to offer high-quality services to its guests, allowing them to connect to the Internet in total safety from any area of the premises. Separate networks allow the adoption of different monitoring and access policies for staff and customers. For example, access for a specific application on the internal network can be limited to maximize productivity.

Wi-Fi coverage is provided by 34 NWA5123-NI 802.11 a/b/g/n Dual-Radio Unified Access Points, each with the external appearance of high-density connection smoke detectors managed by a wireless LAN controller.

The NXC2500 Wireless LAN Controller uses an automated routine to manage the maintenance of the Wi-Fi system. It provides complete reports on the health of the network, automatically updating the firmware of the connected APs, solving malfunctions due to external interference or failure of the devices, and managing multiple virtual networks to separate those that are accessible to customers from the networks dedicated to hotel employee use.

Wired connections for the two VLANs are delegated to 24-port smart managed switches from the GS1920 series.

The ZyXEL USG210 firewall provides UTM services, as well as conducts analysis of Internet traffic according to various user profiles, thus securing the entire network.

Products Used



USG210 Next Generation Unified Security Gateway-Advanced Series

- High-performance, high-value Next Generation Firewall (NGFW) for small and medium-sized businesses
- Robust SSL, IPSec and L2TP over IPSec VPN connectivity and VPN high availability (HA)
- Built-in WLAN controller for centralized AP management and effortless WLAN scalability of up to 34APs
- Comprehensive mobile broadband USB modem compatibility and multi-WAN load-balancing, failover and fall back support
- Future-proofed with IPv6 support



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
- 2.4 GHz and 5 GHz concurrent dual-band
- ZyXEL One Network is supported



NXC2500 Wireless LAN Controller

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



GS1920 Series 24-port Gigabit Smart Managed Switch

- Smart managed switch with essential L2 features
- GbE RJ-45, GbE combo (RJ-45/SFP) and fixed GbE SFP connectivity
- Compliant with IEEE 802.3af PoE and 802.3at PoE Plus
- High 375-watt power budget
- Supports ZON Utility, ZyXEL Smart Connect and iStacking facilitates easy network initialization and management
- Reliable network availability with Loop Guard, IPSG, and CPU protection
- RADIUS, static MAC forwarding and 802.1x authentication-enhance network security
- Future-proofed with IPv6 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>.

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