



## Success Story

### Luxury Resort Connects Guests Inside and Out with ZyXEL Wi-Fi Solution

**Our client is very satisfied with the final installation. The solution offers excellent signal quality. This is the first time we have accomplished such an important project, and it is also our first project with ZyXEL. We tested ZyXEL products for quality and durability, and we found the external antenna is particularly impressive. It was put through a hard test when we were hit by a strong storm; the antenna proved its worth and excellent build quality.**

**Wadji Chaawani**  
General Manager, R-WAN Solutions

#### Overview

##### Customer Name

La Cigale Hotel

##### Customer Industry

Hospitality

##### Challenges

- Establish three Wi-Fi networks to provide coverage throughout the entire complex
- Coverage must include indoor and outdoor areas of the resort
- Provide a connection for mobile terminals used by servers
- Offer centralized control over all areas of the network (including bars and restaurants)
- Provide interface solution with the PMS

##### Solutions

- Wireless LAN Controller
- 802.11 a/b/g/n Unified Pro Access Point
- 802.11 a/b/g/n Dual-Radio Outdoor Managed Access Points

##### Benefits

- Low cost, superior quality
- Centralized Wi-Fi hotspot management
- ZyXEL equipment is reliable and durable
- Full ZyXEL support provided for all products

## Background

Like La Cigale Hotel in Doha, Qatar, the all-new 5-star La Cigale Resort offers an array of luxurious accommodations blending quality, design, tradition, and gourmet dining. La Cigale Hotel Tunisia’s management has made it a priority

to offer its customers free high-quality Wi-Fi Internet service in all rooms, indoor and outdoor public areas, and even on the beach.



## Challenges

In today's hospitality market, offering a reliable Internet connectivity is as important as a comfortable bed and quality amenities. Providing secure and stable high-performance wireless access in a hotel room is now an essential factor in establishing customer loyalty.

La Cigale Hotel Tunisia's management wanted to offer its customers the same level of connectivity and technology

## Solutions and Benefits

To provide stable, high-speed Wi-Fi coverage to the entire hotel resort —rooms, balconies, bars, restaurants, lobby, tennis courts, beach, golf course, etc. — local partner R-WAN Solutions chose ZyXEL hardware by working directly with the ZyXEL France technical team which enabled R-WAN Solutions to validate the recommended configuration. A ZyXEL wireless LAN controller was installed to centrally manage 120 indoor dual-band managed access points and 20 802.11 a/b/g/n dual-radio outdoor managed access points, which were equipped with directional antennas to amplify the signal for the outdoor areas, including the beach.

The ZyXEL access points provide wide bandwidth and high connection speeds, enabling many users to connect to the same access point simultaneously. PoE (Power over Ethernet) compatibility facilitates easy installation by not requiring a separate electrical supply.

For increased network availability, a second wireless

they would have at home or in their office to check emails, browse the Internet, and download digital content. The challenge was to find the best way to provide a free service that meets the customers' expectations for quality, while remaining commercially viable and complying with the regulatory requirement not to exceed the 2.4 GHz radio frequency limit.

controller operates in redundant mode, ensuring service continuity even in cases of main controller failure.

The ZyXEL wireless controller supports a Wi-Fi network operating within the 802.11 a/g/n protocols while managing hundreds of access points. Moreover, the controller's centralized access point setting efficiently reduces the amount of time required for initial equipment setup and subsequent adjustments. The ZyXEL wireless controller's easy installation and configuration offer complete ownership at minimal cost.

The entire network Wi-Fi installation, including optical fiber wiring, was completed in five months. It required two days to complete the access point configuration, and the testing phase was carried out over two months during the pre-opening phase of the resort to verify the signal range and quality.

## Suggested Product



### NXC5500 Wireless LAN Controller

- Centralized WLAN management and auto provisioning
- Manages up to 512 APs with granular access control
- ZyMesh simplifies complex, inconvenient cabling Wi-Fi Deployments
- Comprehensive features for WLAN performance optimization and always-on Wi-Fi connectivity
- Wireless LAN performance optimization via dynamic channel selection and load balancing
- Guest authentication by QR code



## NWA3160-N 802.11 a/b/g/n Unified Pro Access Point

- Higher bandwidth and superior performance with 802.11n
- Enterprise-class AP functionalities with comprehensive configuration interfaces
- Built with Low Smoke, Zero Halogen (LSOH) materials for plenum rating
- 100/1000Mbps Ethernet interface & standard 802.3af PoE source supported



## NWA3550-N 802.11 a/b/g/n Outdoor Business WLAN Access Point

- No extra cost converting stand-alone AP architecture into management WLAN architecture
- Simplified management with scalability
- Secure architecture for reliable, scalable Wi-Fi networks
- Enterprise-class Access Point functionality

### 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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