



## Success Story

Amsterdam Four-Star Hotel Uses a Zyxel Solution to Create Wireless Bliss



Hospitality

INDUSTRY



Corendon  
Village Hotel

CUSTOMER



Netherlands

COUNTRY



Zyxel  
Wireless  
Solution

SOLUTIONS

## Overview

### Challenges

- Providing wireless coverage to hotel's three separate buildings
- Allowing network infrastructure to be managed from one spot
- Delivering speed and bandwidth for countless rooms and social areas

### Results

- Multiple virtual LANs unified by fast, powerful fiber core
- All devices can be controlled within single, intuitive interface
- Versatile access points ensure easy configuration of VoIP and IPTV

### Solutions

- Zyxel Wireless Solution

"We work with hotels often and always choose Zyxel's products for their IT solutions. In our experience, Zyxel has the best price-to-performance ratio and technical support in the industry."

Ton van Wijngaarden  
Sales Manager, SBIT

## Background

Corendon Hotels & Resorts, a subsidiary of the Corendon Group, was founded in 2014. The company aims to create hotels and resorts with personalized, reliable, and friendly service at convenient locations. In 2018, it opened the Village Hotel Amsterdam, one of the largest hotels within the Benelux trio of Belgium, Netherlands, and Luxembourg. The Village, which is separated into three uniquely designed buildings, boasts 680 rooms and apartments, 11 fully equipped meeting rooms, bars and restaurants, as well as an array of other desirable amenities.



## Challenges

As the Village Hotel's construction reached its final stages, Corendon was looking for an IT supplier that could provide all of its network solutions. Since the developers had previously gotten impressive "one-stop shop" service from SBIT, a local Zyxel partner, it was a no-brainer to return to them for the Village Hotel. Ton van Wijngaarden, SBIT's sales manager, outlined some challenges that the network

project would need to overcome. "It was much more than just putting down a WiFi network," he said. "[Corendon's] demands were numerous and complex, partly due to the three buildings and many rooms that make up the hotel." In addition to guest WiFi, the new infrastructure would need to support VoIP, IPTV, and IP security cameras, all while delivering a single management tool to unite the services.

## Solutions and Benefits

Zyxel provided "one-stop shop" expertise with the help of the tech professionals at SBIT. The first step involved building a strong network backbone able to handle a large number of bandwidth-craving users. While many hotels are content with 1 gigabit installations, SBIT ambitiously chose Zyxel's XGS4600-32 for its core switching needs. With four 10G SFP+ uplinks and state-of-the-art resiliency, the powerful switch works together with the XGS2210 and GS2210 series PoE switches to give Corendon's patrons the fast, five-star network that they expect.

The next question was how to convert the potent fiber connection to a centrally managed wireless network. The installation of the NXC5500 wireless LAN controller gave the hotel the ability to manage up to 1,024 access points, ensuring that every nook and cranny of the three buildings had optimized wireless performance. Other hotels use a hallway AP to connect multiple rooms; Village Hotel connects every room with only one cable. Each wire powers an access point that distributes strong and cost-effective

WiFi to a VoIP phone and IPTV. By selecting four APs with different strengths and features, the hotel was able to mix and match network solutions based upon the space.

For example, the WAC5302D-S wall-plate access point gives style and signal strength to guest rooms, while the WAC6503D-S 802.11ac dual-radio access point features an innovative smart antenna that can produce over 700 optimized signal patterns to optimize performance in the highest density environments such as hotel lobby, banquets. To safeguard all the guest and staff data, the ZyWALL USG310 Unified Security Gateway was put in place.

Once again, Zyxel has shown that its high-quality design, solid price-to-performance ratio, and dedicated partners can make even the most complex hospitality venture a success. By ensuring its guests have the best WiFi possible, Corendon Village Hotel won't have to think twice about the network needs of its customers.

## Products Used

### ZyWALL USG310 • Unified Security Gateway



- Unified Security Gateway Firewall for small- and medium-sized businesses
- Complete network protection with firewall, Anti-Virus, Anti-Spam, Content Filtering 2.0, IDP, and Application Patrol
- Unified security policy
- Cloud Helper makes firmware upgrades a breeze
- Device HA Pro ensures smart handover
- Hotspot management supported

### XGS4600-32 • 28-Port Gigabit L3 Managed Switch with 4 SFP+ Uplinks



- Four built-in 10G SFP+ uplinks enable smooth, congestion-free data delivery for high-bandwidth applications
- Provides high bandwidth with true physical stacking of up to four units and 112 Gigabit ports
- New ID design with carbon fiber-style name plate delivers a modern look and feel
- High resiliency with redundant power supply units

### GS2210 Series • 8/24-Port Gigabit L2 PoE Switch



- High power budget of 375 W
- L2 multicast, IGMP snooping, MVR, and voice VLAN for convergence
- Enhanced network protection with IP source guard, DHCP snooping, ARP inspection, and CPU protection
- L2, L3, and L4 filtering, MAC freeze, port isolation, and guest VLAN for improved isolation and access control

## XGS2210-28HP • 24-port Gigabit L2 PoE Switch with 10GbE Uplink



- Gigabit connectivity, plus four (4) SFP+ ports to deal with high-bandwidth networks with ease
- Physical stacking up to 2 units through 2 standard 10G SFP+ ports
- High power budget of 375 W
- VLAN communication through access switch by static routing feature for agile, reliable network operations
- Supports sFlow that analyzes client behavior to discover source of bandwidth abuse
- Enhanced network protection with IP source guard, DHCP snooping, ARP inspection, CPU protection

## NXC5500 • Wireless LAN Controller



- Centralized WLAN management and auto provisioning
- Manages up to 1,024 APs with granular access control
- ZyMesh simplifies complex, inconvenient cable-heavy WiFi deployments
- Comprehensive features for WLAN performance optimization and always-on WiFi connectivity
- Wireless LAN performance optimization via dynamic channel selection and load balancing
- QR code-based guest authentication
- Zyxel One Network supported

## WAC5302D-S • 802.11ac Wall-Plate Unified Access Point



- Clever wired and wireless network solution for individual hotel guest rooms
- Equipped with smart antenna which is proven able to mitigate interference from neighboring APs
- Enterprise-class 2x2 802.11ac AP supporting combined data rates of up to 1.2 Gbps
- Three downlink Gigabit Ethernet ports, including one with PoE to power for VoIP phones or other devices

## WAC6503D-S • 802.11ac Dual Radio Smart Antenna 3x3 Access Point



- Zyxel smart antenna with over 700 optimized antenna patterns for breakthrough performance anywhere
- Ideal for high-density and interference-laden indoor environments
- Advanced IEEE 802.11ac offers combined data rates of up to 1.75 Gbps
- Industry-leading Rx sensitivity as low as -102 dBm
- AP Flex™, DCS, and tool-less bracket design for streamlined deployment

## WAC6103D-I • 802.11ac Dual-Radio Dual-Optimized Antenna 3x3 Access Point



- Dual-optimized antenna allows pattern optimization adapting to wall- or ceiling-mounted installation
- 3x3 802.11ac supports combined data rates of up to 1.75 Gbps
- Load balancing for both standalone and managed modes
- Dual-image support for reliable WiFi connectivity
- Zyxel ONE Network for standalone AP management

## NWA5123-AC • 802.11ac Dual-Radio Unified Access Point



- Ceiling- and wall-mountable design with optimized RF performance
- 2-in-1 standalone/managed AP design
- CAPWAP management supported
- Enterprise-class 2x2 802.11ac AP supports combined data rates of up to 1,200 Mbps
- Simple, speedy deployment with APFlex™ and Zyxel One Network utilities

### 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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