



## Success Story

### Historic Italian Art Academy Gets Modern Wireless Internet Solution

#### Overview

**Customer Name**

Academy of Fine Arts of Bologna

**Customer Industry**

Education

**Challenges**

- Provide wireless Internet connectivity to 1,700 students and faculty.
- Service coverage must include three separate buildings.
- Infrastructure must integrate with more than 300-year-old historical structures.
- Solution must provide high-level of security and content filtering.

**Solutions**

- Business Wireless LAN Controller
- 802.11 a/b/g/n Dual-Radio Business AP
- Unified Security Gateway

**Benefits**

- Provide seamless connectivity for the academy's students and staff.
- Wireless solution integrates easily with centuries-old historic buildings.
- Provides highest level of protection from security threats and unauthorized Internet content.



#### Background

With a history dating back to 1582, the Academy of Fine Arts of Bologna is one of the oldest arts universities in Italy. Many important Italian artists studied in the academy over the past 400 years. Today it houses more than 1,700 students from all over the world. The

academy is located in the center of Bologna, within the buildings of the Church of Sant'Ignazio and the Jesuit Noviate, which was built in 1735. The students attend various artistic courses, including painting, sculpture, engraving, anatomy, decoration, and stage design.

## Challenges

The academy wanted to install a new wireless infrastructure capable of providing high-quality Internet connectivity to the students, teachers, administrative staff and guests inside the three buildings that house the school. The primary challenge was to guarantee enough

coverage for 1,700 people inside historical buildings constructed in the 18th century. The academy also wanted to provide a high standard of security and content filtering for students, teachers, administrators and guests over four separate VLANs.

## Solutions and Benefits

With the help of their local ZyXEL partner, the academy decided to install a managed solution centered on a NXC5200 wireless LAN controller and 33 dual-radio NWA3560 Dual-Radio access points, which would be capable of supporting the anticipated high number of connections while offering mobility services within the buildings. Internet connections are managed by a USG1900 Unified Security Gateway, part of ZyXEL's next-generation Extreme Series line of USGs,

featuring full UTM services on-board.

Students, teachers, staff and guests now enjoy high-quality wireless connectivity inside the academy's three buildings. Using four separate VLANs, Internet access is personalized depending on the user's profile and the firewall's UTM service settings.

## Product Used



### NXC5200 Business Wireless LAN Controller

- Centralized WLAN management and auto provisioning
- Manages up to 240 APs with granular access control
- Advanced RF management for optimized Wi-Fi performance
- Secured wireless edge with IDP, anti-virus and firewall
- Flexible traffic forwarding with tunnel and distributed modes
- Comprehensive guest network management features
- User-centric management solution for BYOD trend



### NWA3560-N 802.11 a/b/g/n Dual-Radio Business AP

- 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
- Back-up redundancy supported to provide reliable connection service
- 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



## USG1900 Unified Security Gateway

- High-performance, high-value Next Generation Firewall (NGFW) for medium-sized businesses and campuses
- Anti-malware protection with firewall, anti-virus, anti-spam, content filtering, IDP, next-generation application intelligence and SSL inspection
- Robust SSL, IPSec and L2TP over IPSec VPN connectivity and VPN high availability (HA)
- Unified security policy streamlines the configuration and management efforts
- Built-in WLAN controller for centralized AP management and effortless WLAN scalability of up to 18 APs

### 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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