

Success Story

Line Syte Gives Minneapolis Mart a Complete Wireless Network Makeover Using All ZyXEL Gear



Craig Moench
CEO, Line Syte, Inc.

“From all aspects, the system handled all adversity exceptionally well!”

“The management of the Minneapolis Mart is happy, their customers are happy, and I couldn’t be more pleased and impressed with the ZyXEL system I installed.”

Overview

Customer Name

Minneapolis Mart

Customer Industry

Wholesale merchandise facility

Challenges

Build a scalable, high-speed and self-reliant Wi-Fi network to cover growing Internet usage by customers.

Solutions

USG200, NXC5200, GS1900-24HP, NWA5123-NI

Benefits

- Single source for all networking equipment
- Stringent budget met while delivering maximum ROI
- Reduced learning curve resulting from uniform user interface across different products
- Flexible, scalable, easy-to-install and manage
- Full reporting capability for deft monitoring and control

Challenges

Minneapolis Mart wanted to upgrade its Wi-Fi network. The existing Wi-Fi system, which was comprised of consumer-grade equipment, could no longer support the growing demand for Internet access by mobile device users when the Mart hosted its frequent high-traffic tradeshows.

Background

Minneapolis-based IT specialists Line Syte, Inc., with clients throughout the United States, was called upon to upgrade the Wi-Fi network operated by the 200,000-square-foot Minneapolis Mart. The Minneapolis Mart is a wholesale permanent showroom facility. The expansive building features 140 individual showrooms with four galleries plus a lobby and a café.

Solutions and Benefits

Mr. Moench and the Line Syte team researched various vendors and chose to work with ZyXEL because of the vendor’s extensive suite of wireless equipment, Unified Threat Management (UTM) firewalls, and Ethernet switches. ZyXEL offered a broad range of enterprise-class features at an unmatched price point that satisfied Line Syte’s technical and budgetary requirements for Minneapolis Mart.

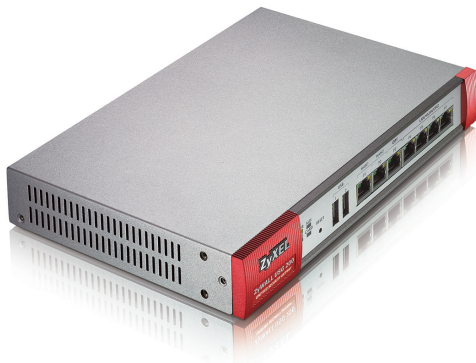
Line Syte opted for dual Internet connections for higher throughput, reliability and back-up options. They matched the dual-Internet connections with ZyXEL's USG200 Unified Security Gateway for solid perimeter protection and load-balancing over the two Internet connections. To blanket Minneapolis Mart with a fast, stable wireless network, Moench chose ZyXEL's NXC5200 Wireless LAN Controller and NWA5123-NI 802.11n Dual-Radio Unified Access Points. The APs were connected to the controller via ZyXEL's GS1900-24HP Smart Managed Switch.

The NXC5200 WLAN controller, capable of managing up to 240 APs, was ideally suited to cover the expansive Minneapolis Mart. In addition to extensive management and monitoring capabilities, it offered sophisticated features like auto channel selection, distributed traffic forwarding and WPA/WPA2-Enterprise authentication to, respectively, simplify deployment, boost throughput and secure the wireless network.

Industry pros like Moench understand that there is a lot more to a partnership than just outstanding hardware. He worked closely with ZyXEL sales and technical support teams from the get go making the entire purchase and deployment process painless. In addition, the sourcing of all the various network components from a single vendor allowed for single-support contact and a uniform interface, resulting in a shorter learning curve and hassle-free deployment.

As a result, one of the Mart's most popular shows took place mere weeks after the installation. Line Syte set-up reporting features to collect usage data during the show, as well as content filtering for the UTM firewall to block pornography, video streaming, and peer-to-peer sites. Everything performed well during the event. The wireless network held up admirably, and the reporting system provided a wealth of valuable information to the network administrator on network usage in real time. This helped the Line Syte team to manage and monitor the network constantly for issues and network bottlenecks. Fortunately, however, the network didn't have any problems. At one point, there were nearly 400 devices connected, yet the network was still able to pull 30 to 50 Mb.

Products Used



USG200 Unified Security Gateway

- Robust security without sacrificing performance
- Comprehensive support to IPv6
- Robust hybrid VPN (IPSec/SSL/2TP)
- Zero-configuration remote access with EASY VPN
- Supports L2TP VPN on mobile devices (iPhone and Android phones)
- ICSA Firewall, IPSec certification
- Content filter stops malware and Web threats
- Powerful e-mail security
- Non-stop Internet access with multiple WAN and 3G backups



NXC5200 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



GS1900-24HP Smart Managed Switch

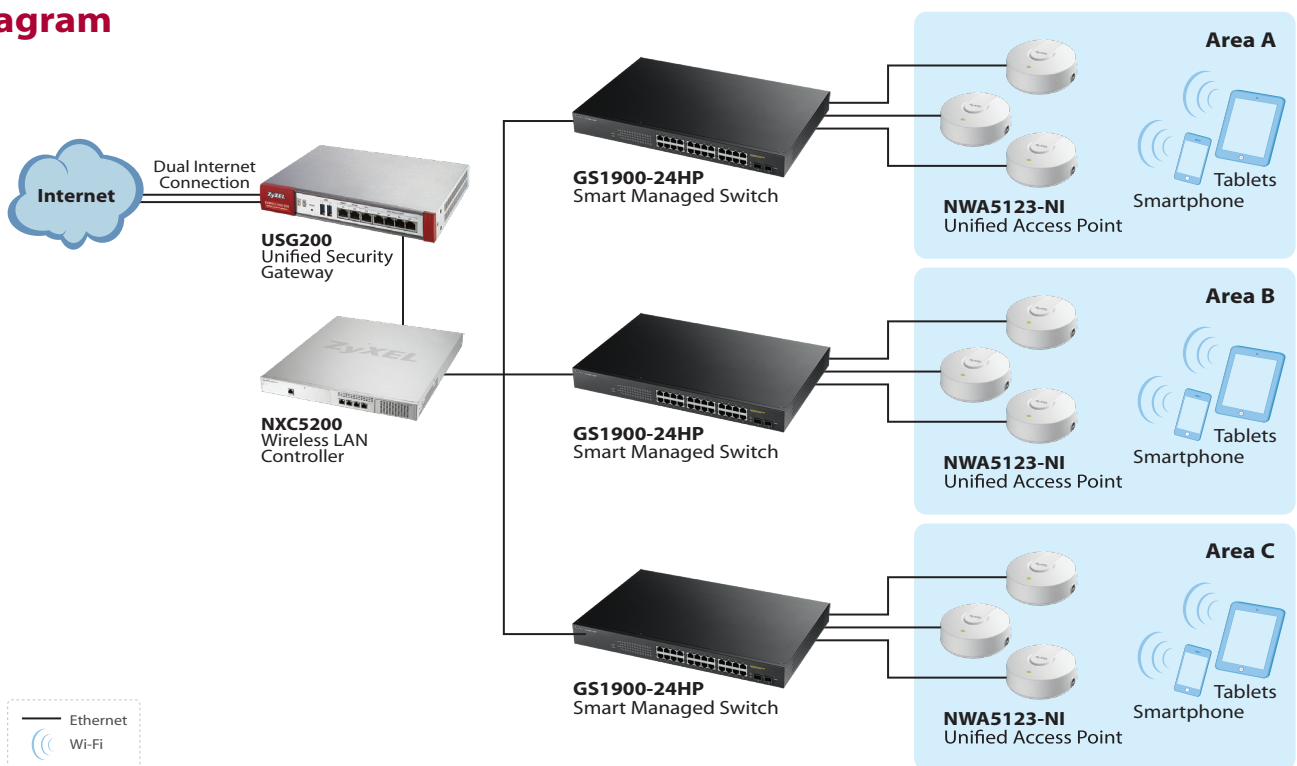
- 10/100/1000 Mbps GbE ports
- Easy browser-based switch management
- Quick and easy set up wizard
- Advanced network error prevention features (loop protection, dual images, storm control, DoS and SSL)
- Green Ethernet IEEE 802.3az support and intelligent ZyXEL green features
- High-power PoE support IEEE 802.3at



NWA5123-NI Dual-band, Dual-radio, 11n Access Points (AP)

- 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
- High-performance RF technology: Tx Beamforming and Rx Maximum Likelihood Demodulation (MLD)

Diagram



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 undergone many transformations in the fast-paced networking industry. Today, ZyXEL is one of the few companies in the world capable of offering complete networking solutions of Telco, SME/Enterprise, and Digital Home for a wide range of deployment scenarios. Telco solutions include wired and wireless access network equipments, networking customer premises equipments, and Carrier Switches. SME and Enterprise solutions include Unified Security Gateway, LAN Switches and WLAN. Digital Home solutions include network connectivity devices and multimedia solutions.

The company has 3200 employees and distributors in 70 countries, reaching more than 150 regional markets. The ZyXEL Communications Corp. includes 33 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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