

Success Story

ZyXEL's Solution Offers a Stable and Reliable Environment for Toscana Valley Resort in Thailand

Overview

Customer Name

Toscana Valley Resort

Customer Industry

Hospitality

Challenges

To build a reliable and efficient network solution to ensure customers have 24/7 access to mobile TV, wireless internet, surveillance systems, and phone lines without interruption.

Solutions

- Unified Security Gateway
- 8-port GbE L2 Switch
- 24-port GbE L3 Switch with 10GbE Uplink
- PoE Access Point

Benefits

- Provide cost-effective, fairly priced solutions
- Provide reliable services that satisfy critical performance criteria

Challenges

The Toscana Valley Resort wanted to ensure that customers had round-the-clock access to all their services and amenities including Wi-Fi access, internal communications and various other entertainment media. Hotel La Casetta in the Toscana Valley needed reliable solutions for landlines, consistent Wi-Fi access, surveillance systems, and TV even during inclement weather.

Background

The Toscana Valley Resort is a unique project inspired by the legendary, natural beauty of the surrounding countryside. Its unique features make it one of the most sought-after resort destinations by top-end clients in Thailand and abroad. The top priority of the Toscana Valley Resort is providing unparalleled customer service.

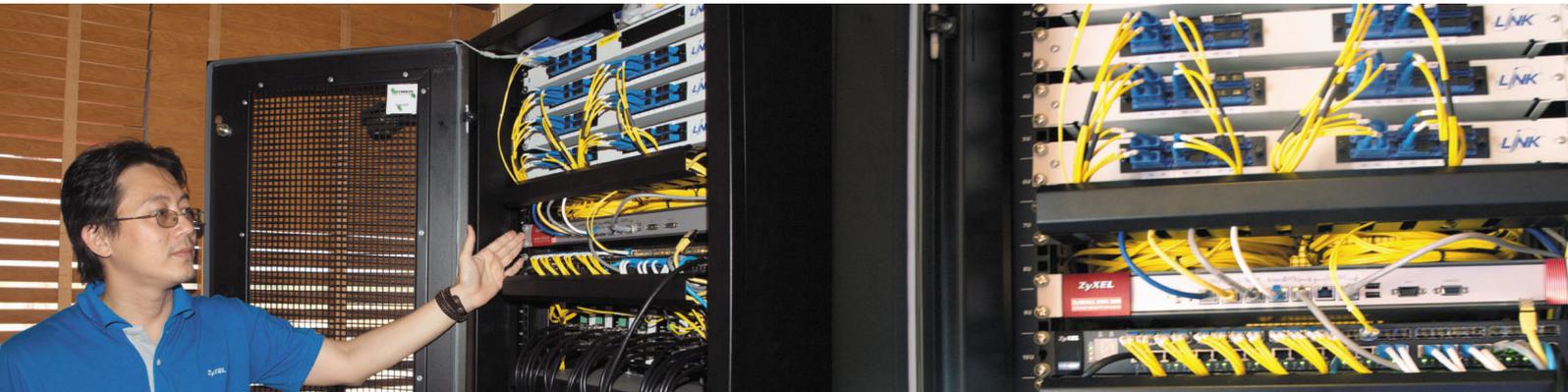
Solutions and Benefits

The Toscana Valley solution posed an interested challenge for ZyXEL. It needed a central Gateway but was also composed of several separate units that each needed reliable connectivity and had to meet critical performance standards. ZyXEL installed a USG300 Unified Security Gateway to manage the VLAN, connected to the Core Switch XGS-4528F 24-port GbE L3 Switch at Building M to serve as the central network. The 24-port GbE L3 Switch XGS-4528F offers high performance switching with up to 10GbE Uplink connectivity, perfect for Toscana Valley's needs. In each individual cottage ZyXEL installed a GS2200-8 8-port GbE L2 Switch connected to the central node and one Access Point NWA1100-N for offering Wi-Fi service. Other network devices such as VoIP Gateways and Security Servers were also connected to the Core Switch. Because some cottages were located farther away from Building M, ZyXEL utilized Gigabit SFP transceiver (SFP-LX-10-D) which features up to 10 km transmission distance



via fiber link to connect GS2200-8 and XGS-4528F without compromising performance. In addition, the wireless N PoE Access Point NWA1100-N in the cottage ensures distribution of the wireless network and a Power Injector PoE12-HP is integrated with the network for supplying power to the Access Point without relying on power outlets.

As a result, Toscana Valley's network has been able to meet customer demand and operate at a high level of efficiency. This deployment gives them a worthwhile return on investment and helps them maintain their mission of excellent customer satisfaction.



Products Used



USG300 Unified Security Gateway

- Ultra-high performance and protection
- Comprehensive support to IPv6
- Supported various VPN solutions (IPSec/SSL/2TP)
- ICSA Firewall, IPSec certification
- Real-time, dynamic malware protection
- High Availability (HA)



NWA1100-N 802.11 b/g/n PoE Access Point

- Multiple operating modes for most flexible deployments
- IEEE 802.3af PoE supports easy installation for administrators
- Environmental friendly with IEEE 802.11az energy efficient Ethernet and WMM Power Save
- 4 Multiple BSSID to provide different service level
- WEP/WPA/WPA2 supported for complete network protection
- Various management interfaces to merge into existing business networks



GS2200-8 8-port GbE L2 Switch

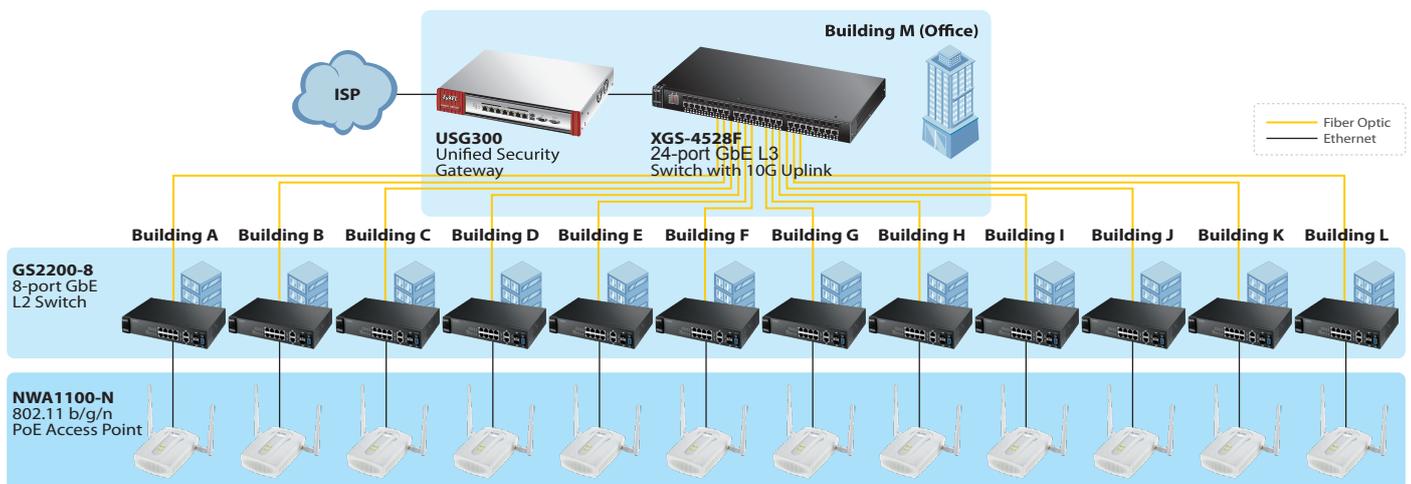
- Comprehensive L2 switching features
- 20 Gbps non-blocking switch fabric
- 2 dual-personality (RJ-45/SFP) GbE interfaces
- Port security and enhanced 802.1X port authentication
- MAC freeze and intrusion lock
- 8 IEEE 802.1p hardware priority queues
- WFQ, WRR and SPQ queuing algorithm



XGS-4528F 24-port GbE L3 Switch with 10GbE Uplink

- Fully managed Layer 3 switching solution
- High performance switching with 10GbE uplink connectivity
- Resilient networking with RSTP, MSTP, MRSTP, ECMP and VRRP support
- RIP, RIPv2, DVMRP and OSPF for advanced routing applications
- Advanced security with multilayer (L2/L3/L4) ACL, Guest VLAN and CPU protection
- CoS, DSCP, IGMP snooping v1, v2, v3 and MVR for convergence
- Future-proofed with IPv6 support

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, 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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