



Success Story

Zyxel Tech Powers Summit to Help 120 Mayors Make Our Cities Smart



Exhibitions



CUSTOMER

Taipei
Computer
Association



COUNTRY

Taiwan



SOLUTIONS

Zyxel
Wireless
Solution

Overview

Challenges

- Provide stable network access for 80 tablets plus the devices of over 100 summit attendees
- Ensure robust data security for visiting government leaders
- Overcome high-density environment and co-channel interference

Benefits

- Provides the entire venue with robust and high-performance WiFi network coverage for up to 500 devices at a time
- VPN firewall solution combines security protection with WLAN controller functionality

Solution

Zyxel Wireless Solution

"The 2018 Smart City Summit & Expo went off very smoothly. The wireless application on the site was very effective and appreciated by the guests."

Charles Huang
Deputy Secretary General, Taipei Computer Association

Background

The development of smart cities—which apply ICT to collect data and manage resources, like monitoring road use to determine the best traffic light patterns and letting citizens pay bills via smartphone—has picked up tremendously in the past decade thanks to advances in technology, particularly the rise of the internet of things.

One of the epicenters of smart city development has been Taiwan, where the Smart City Summit & Expo has been held in the capital Taipei since 2013. The event—the biggest smart city exhibition in Asia—promotes the

development of smart cities and better public understanding of the critical role that the internet of things plays in the field.

The 2018 expo ran March 27–30 and drew in over 30,000 visitors from 50 countries. One of the highlights of the event—the Mayors’ Summit—was held on the expo’s first day, with leaders from a record 120 cities all over the world in attendance.

Challenges

The expo was held at Taipei’s Nangang Exhibition Center. It’s a dazzling, modern venue, but preparing the designated area for the Mayors’ Summit proved challenging for organizers, namely the Taipei Computer Association. Eighty tablets had to be connected to a network so attendees could use them to view presenters’ slideshows.

And then there were the hundreds of attendees and their devices, requiring universal wireless coverage for them to

connect and robust security to keep these high-profile attendees’ data private. The final obstacle was the crowded, high-interference environment.

The exhibition organizers needed help and turned to Zyxel, the only Taiwanese brand with a complete line of network integration solutions, including wired and wireless networks as well as security equipment.

Solutions and Benefits

To meet these needs, Zyxel marshalled a contingent of wireless network solutions. First, to provide WiFi to attendees, six access points were deployed. To ensure the wireless was strong and stable enough to cater to the hundreds of attendees and devices, Zyxel selected its **WAC6503D-S access point**, which uses ground-breaking smart antenna technology to exploit the full potential of the most up-to-date 802.11ac WiFi standard.

Keeping the attendees’ data and devices uncompromised called for a virtual private network—and exactly that was delivered with **a ZyWALL firewall**. Using the more advanced Secure Hash Algorithm 2, the firewall provides the safest VPN connections in its class to ensure

maximum security.

A **GS2210-8HP switch** was used to direct data around the network. And the device pulled double duty, with its beefed-up Power over Ethernet functionality making life considerably easier for the administrators and organizers.

With the Zyxel infrastructure in place, the summit went off without a hitch, according to organizer Charles Huang of the Taipei Computer Association. The network performed just as planned, attendees expressed unanimous appreciation, and the event was deemed a complete success.

Solutions

ZyWALL 110 • VPN Firewall



- Robust hybrid VPN (IPSec/SSL/L2TP over IPSec)
- Facebook WiFi for intelligent social media authentication
- Auto-provisioned client-to-site IPsec setup with Easy VPN
- Securer VPN connections with SHA-2 cryptographic
- Device HA Pro ensures smart handover
- Hotspot management supported

GS2210-8HP • 8-port Gigabit L2 PoE Switch



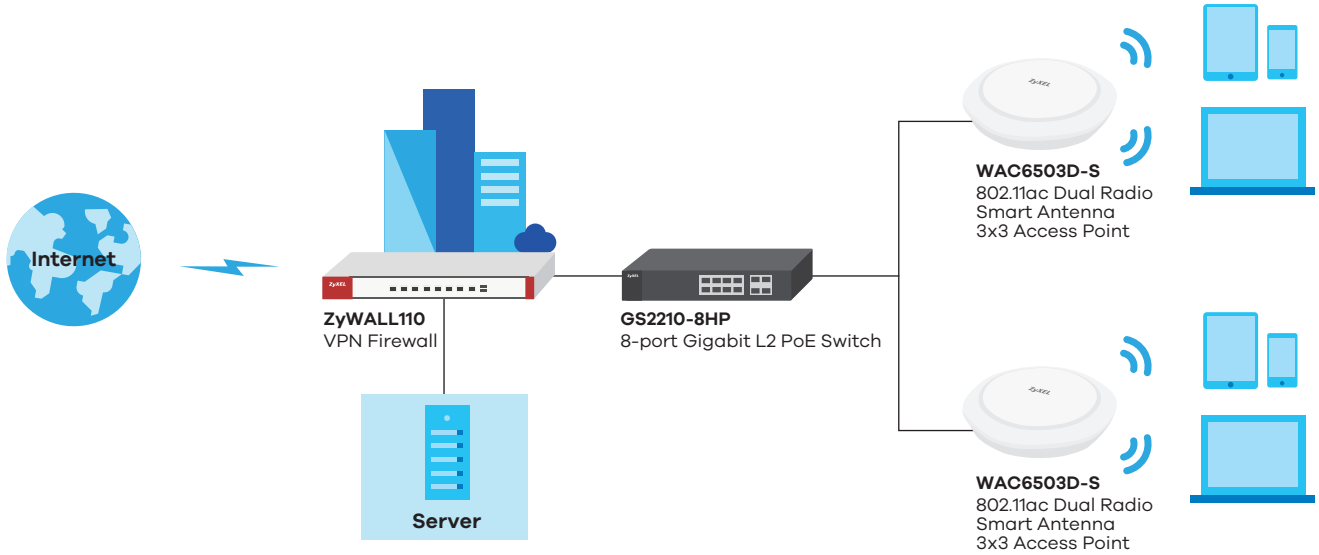
- High power budget of 180 W
- L2 multicast, IGMP snooping, MVR, and voice VLAN for convergence
- Enhanced network protection with IP source guard, DHCP snooping, ARP inspection, and CPU protection
- L2, L3, and L4 filtering, MAC freeze, port isolation, and guest VLAN for improved isolation and access control

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

Diagram



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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