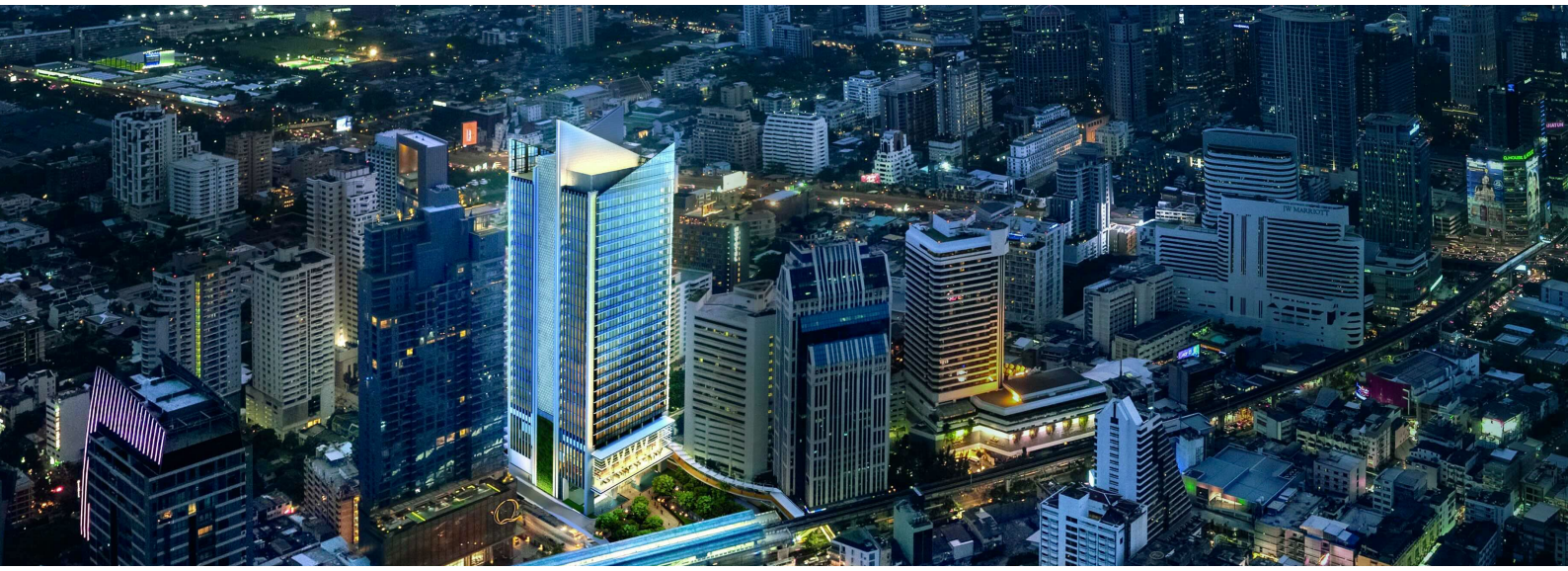


Strengthening Network Security and Connectivity for a Construction Firm

Overview

Thai Obayashi set out to modernize its network to create a more connected working environment across its business. The new network needed to combine dependable connectivity with stronger protection for operational systems and corporate data, while giving the company greater flexibility to accommodate evolving requirements. Zyxel Networks delivered a comprehensive solution integrating wireless access, structured switching, and robust cybersecurity into a cohesive network architecture.

Challenges

The existing network made day-to-day communication and collaboration more difficult, with inconsistent connectivity affecting employees across offices and operational areas. Cybersecurity protection were also a key concern, as the environment needed better safeguards for sensitive business data and critical systems. At the same time, Thai Obayashi required consistent support for both wired and wireless users and a network that would not become a constraint as new systems were introduced.

Solutions

To strengthen wireless connectivity, Zyxel Networks deployed NWA90AX Pro access points across Thai Obayashi's offices and operational areas, giving employees reliable WiFi wherever they work. Broad coverage keeps the office staff connected, enabling smoother communication and collaboration across different work areas.

On the wired side, GS1915-24EP, GS1915-24E, GS1915-8EP, and GS1915-8 smart managed switches were installed across office and operational areas, with PoE-enabled models powering access points and connected devices.

Customer
Thai Obayashi

Industry
Construction

Location
Bangkok, Thailand

Partner
P.C. Computer Co. Ltd.

Customer Background

Founded in 1974 by Japan's Obayashi Corporation and major Thai shareholders, including the Crown Property Bureau, Bangkok Bank, Siam Commercial Bank, and Metro Group, Thai Obayashi has long been a pioneer in Thailand's construction industry. It introduced several innovative technologies such as Thailand's first underground pipeline crossing and the OWS foundation method. Since 1977, Thai Obayashi has also invested heavily in developing local talent, with Thai nationals now holding most senior management and engineering roles.

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To protect corporate data and critical systems, a USG FLEX 200H firewall and a USG FLEX 500 firewall were deployed to provide layered security across Thai Obayashi's network. Using two firewall models allows different areas to receive the appropriate level of protection based on their security requirements while keeping office connectivity secure and efficient.

Bringing wireless, wired, and security network infrastructure together under centralized cloud management simplifies network operations and makes future changes easier to accommodate. Also, the scalable switching and wireless architecture gives Thai Obayashi the flexibility to extend connectivity when the business grows without having to redesign the network from the ground up.

Product List

- NWA90AX Pro WiFi 6 Access Point

- GS1915-8 Smart Managed Switch
- GS1915-24E Smart Managed Switch
- GS1915-8EP Smart Managed PoE Switch
- GS1915-24EP Smart Managed PoE Switch

- USG FLEX 200H Firewall
- USG FLEX 500 Firewall

- Nebula Cloud Networking Solution

Results

The upgraded network gives employees more consistent access to the connectivity and data they need across departments and work areas, helping communication and collaboration flow more smoothly. Wired and wireless users benefit from a stable environment designed to support daily business activities, while robust security protection helps safeguard network access to corporate resources. The new foundation also puts Thai Obayashi in a stronger position to accommodate additional users and systems as business needs evolve.

- Enhanced communication efficiency and data accessibility across departments
- Seamless team collaboration supported by stable, reliable connectivity
- Reliable wired and wireless connectivity for users and devices
- Scalable network foundation supporting future expansion and projects



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