Omada Delivers Reliable Wi-Fi Connectivity for 12 million Sq. Ft. Industrial Estate in Thailand

Project Scope

Delivers Seamless Wi-Fi Coverage for 12 million Sq. Ft. Industrial Estate

Customer Profile

Name: Pinthong Industrial Estate (PIN)
Industry: Commercial & Building
Location: Thailand

Challenge

Severe WiFi signal degradation due to complex building structures

Solutions

- OC200 × 9
- EAP245 × 135
- EAP225-Outdoor × 3
- SG2428P × 5
- SG2210MP × 2

Seamless Wi-Fi Coverage In and Out with Omada's Indoor and Outdoor APs

The Pinthong Industrial Estate, spanning 12 million square feet, comprises a range of public utilities and facilities, such as offices and warehouses. The estate faced significant challenges with its existing Wi-Fi network. The existing Wi-Fi network suffered from poor signal penetration due to access points located in corridors, leading to signal blockage by walls and resulting in dead zones within rooms. Additionally, signal strength diminished for users who were far from the buildings.

Omada strategically installed access points (APs) to address these connectivity issues. For indoor areas, high-performance EAP245 ceiling-mounted APs were deployed, capable of delivering Wi-Fi speeds up to 1750 Mbps, ensuring robust internal connectivity. For outdoor coverage, the EAP225-Outdoor APs, equipped with IP65-rated weatherproof housings, were installed to provide extended Wi-Fi signal reach over long distances.

Omada Controller Provides 100% Centralized Management for Business Network

By far, the PIN projects have attracted hundreds of customers to run their businesses in the industrial parks. Connection stability, up-time, network availability and easy centralized management have all become essential to enterprise-level users, because any system failure or unavailability may result in substantial cost, as a result of staff downtime.

Omada integrated nine OC200 hardware controllers into the network, each providing powerful management of up to 100 access points, 10 routers, and 20 switches. Featuring hybrid cloud technology, the Omada Controller allows you to remotely control the whole network wherever you are in the world with cloud access. Locally manage devices with the ultimate security and stability.

Omada Tailors Network Solutions to Meet the Varied Needs of Diverse Industries

The PIN project is open to global investors, so the companies in the industrial park come from different industries and sizes, such as automotive parts, metals, logistics and warehousing, electronics, etc.

To accommodate this diversity, Omada employs PoE switches that simplify deployment by providing power and data through a single Ethernet cable, reducing complexity and increasing adaptability.

Additionally, Omada utilizes VLANs to segment the network, allowing for customized security and traffic management tailored to each user group. The implementation of QoS further ensures that critical traffic is prioritized, guaranteeing the necessary bandwidth and responsiveness, which is essential for time-sensitive industrial operations.

EAP245 ×135
Omada Access Point

EAP245
Omada Access Point

SG2428P ×5
Omada PoE+ Smart Switch

Internet

Router

EAP245
Omada Access Point

EAP225-Outdoor ×3
Omada Access Point

SG2210MP ×2
Omada PoE+ Smart Switch

OC200 ×9
Omada Hardware Controller