

Omada Delivers a Seamless Wi-Fi 6 Solution with Centralized Management for 380+ Apartments

Project Scope

A large-scale deployment covering 386 apartments with an on-premises solution.

Customer Profile

Name: Tecco Technology
Industry: Residential
Location: Sydney, Australia

Challenges

- Complex network segmentation for security
- Unstable connectivity, delaying service requests
- Limited flexibility in network access
- Lack of remote centralized management, increasing operational costs

Solutions

- OC300 Controller
- ER7212PC Gateway
- SG3452XP Switch
- SG2428P Switch
- EAP660 HD Ceiling Mount AP
- EAP650 Ceiling Mount AP
- EAP613 Ceiling Mount AP
- EAP650-Outdoor AP
- EAP610GP-Desktop GPON AP

Omada delivered a reliable, high-performance Wi-Fi 6 solution with centralized management for Aura by Aqualand—a luxury North Sydney development with single-bedroom apartments starting at \$1.8 million.

Efficient Remote Centralized Management via the Omada Hardware Controller

The Omada Hardware Controller was deployed for Aura by Aqualand, enabling fully centralized, remote management through a unified interface with cloud access by Tecco, significantly reducing labor and costs. Features such as automatic device discovery, batch management, and remote firmware updates are ideal for IT technicians to manage hundreds of devices remotely without extra investment, facilitating efficient management for 386 apartments. Intelligent network monitoring and abnormal event warnings also ensure a safer digital environment for residents.

Pre-Shared Keys (PPSKs) Enhance Data Security and Seamless Network Segmentation

Hosting PPSKs on the Omada Hardware Controller ensures that each unit is assigned a unique password and can establish a secure VLAN, enabling Tecco to control bandwidth for each residential unit, manage subscription plans, and provide a better overall residential Wi-Fi experience while reducing OPEX costs. Smart home devices also can be easily connected to the residential network without compatibility issues, allowing tenants to enjoy seamless mesh wireless coverage as they move throughout the property's indoor and outdoor amenities.

Optimized Connectivity with Omada Wi-Fi 6 APs and Dual-WAN Switches

With Omada's high-speed Wi-Fi 6 solution, Tecco allows residents and guests to maintain secure access to the wireless network as they move throughout the property and even the beach front. All access points offer dual-band speeds with 802.11ax technology, ensuring reliable network performance for residents' high bandwidth needs such as gaming, video streaming, and remote work applications. SG3452XP and SG2428P switches, featuring compliant Ethernet ports and SFP WAN/LAN slots, ensure residents and owners access their own NBN fiber connections.

Rich Functions Simplify Installation and Operations

With hassle-free setup and Zero-Touch Provisioning, residents completed the installation of Omada's devices without IT expertise, reducing the need for technicians. SG3452XP and SG2428P switches, along

with all access points, support PoE, eliminating the need for extra electrical wiring and simplifying cabling while cutting installation costs. Omada Mesh enables seamless wireless connectivity between Omada's APs, creating a full indoor and outdoor Wi-Fi mesh with minimal cabling. This setup reduces the need for extensive wiring, lowering cable costs. Self-healing features ensure uninterrupted connectivity for 386 apartments and common areas, preventing disruptions to user experience.

High-Quality Services to Address All Concerns

Omada offers customized solutions designed to address the unique challenges of the residential industry, delivering reliable, high-quality services while maintaining cost efficiency. With a dedicated enterprise community and skilled localization team on standby, Omada ensures professional after-sales support. As a result, Tecco plans to incorporate more Omada devices in future projects.

"Omada gave us the dual-WAN capability we needed to create a more protected but more capable network. But they also have the Omada cloud platform which can manage each network device, and on a bigger scale hooks into what is really a non-traditional iBMS. It can do everything from spotting illegal renovations because of device disconnections, it can resolve power outage issues sometimes even before a unit owner notices, and thanks to that cloud connection, it can even send owners an alert if they are overseas. All of this is only possible with a stable network, and that's what Omada gives us."

—Vozzo, Tecco's Home Automation Solutions Architect

