

CASE STUDY

Omada Delivers a Seamless Indoor & Outdoor Connectivity for 62 Premium Homes of Birchgrove



Project Scope

Provide stable full-scenario connections for a three-building apartment site.

Customer Profile

Name: Amtech
Industry: MDU
Location: UK

Challenges

- Complex indoor and outdoor coverage
- Priority of the safety system
- Seamless roaming in all areas

Solution

Access Points:

- EAP653 ×75
- EAP610-Outdoor ×10

Switches:

- SG3452XP ×5
- SG3428XMP ×2
- SX3008F ×10

Gateway:

- ER8411 ×1

Controller:

- OC300 ×1

Omada provided a stable, reliable network for 62 high-end retirement residences, seamlessly supporting their intelligent care system with all-round Wi-Fi 6 coverage and redefining modern elderly care.

Rock-Solid Network Foundation for Daily Use and Safety Protection

Three buildings, along with the outdoor grassland, gardens, and recreation areas, require a high-standard network. Omada established a 10 Gbps fiber architecture and gigabit terminal connections, ensuring fast, reliable, and stable wired connections. Thanks to the powerful Omada platform, a large number of VLANs were deployed in just a few hours. Each apartment has its own VLAN, along with VLANs for staff and the fall protection system. This means each resident has their own independent network to guarantee a smooth internet experience and data privacy, and the fall protection system can operate stably without any interference to ensure safety.

The fall protection system, Nobi Light Solution, is central to community safety protection. When a resident falls, the system immediately monitors and sends an alert. This creates a mission-critical requirement for network reliability. The technicians performed in-depth configuration on the Omada platform, converting multicast traffic into unicast transmission and enabling Quality of Service (QoS) functionality to ensure critical data, such as fall alerts, always receives the highest-priority transmission, building a truly trustworthy safety protection network for residents.

Seamless Wi-Fi 6 Coverage for Every Corner, Indoors and Outdoors

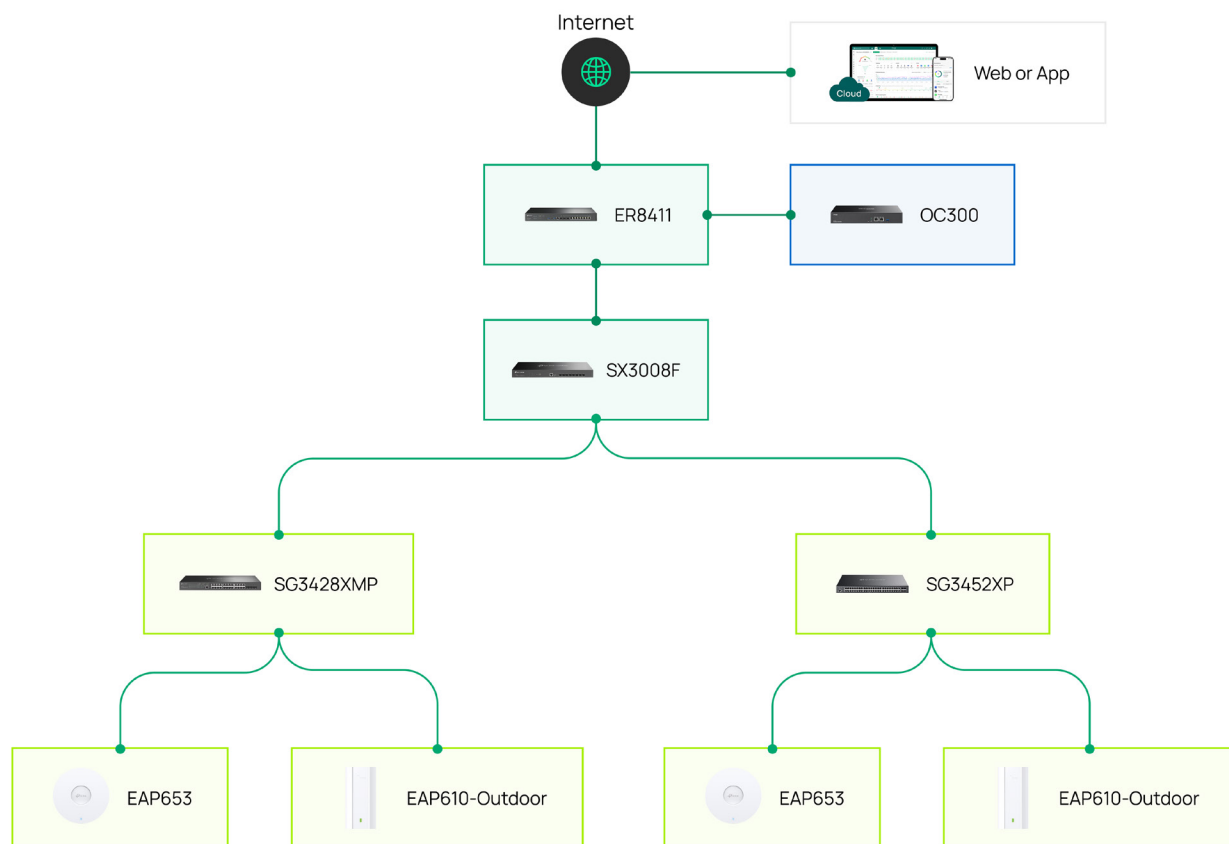
In Birchgrove, Omada indoor and outdoor APs provide comprehensive Wi-Fi coverage across the site. Seamless roaming keeps residents' network connections uninterrupted as they move around the community, whether walking from their rooms to the dining area or strolling in the garden. This provides reliable connectivity for critical safety devices and Birchgrove employees' network needs. Residents can now enjoy various digital activities such as video calls and online entertainment anytime and anywhere, truly achieving safety and comfort enabled by technology.

Efficient Operations & Centralized Management via Omada Controller

To simplify the network operation and maintenance of the entire retirement community, the project deployed the Omada hardware controller OC300, enabling centralized management of all network devices, including the gateway, APs, and switches. The technicians can also monitor clients in real time, observe the roaming process, and record relevant information. They can quickly locate and solve problems with the intuitive interface. This efficient, centralized operation and maintenance capability is a significant advantage for elderly care communities.

“ We would definitely recommend TP-Link Omada. We found it reliable, configurable, and at a fantastic price for ourselves and for our customers.

— Mr. Melin, Managing Director, Amtech



Note: The topology has been simplified and shows only a portion of the products.