Omada Delivers a Whole-Building Wi-Fi 6 Solution Covering 34,000 Square Meters in Japan

Project Scope

200+ devices ensure seamless coverage across 34,000 square meters with an on-premises solution for guests, visitors, and staff.

Customer Profile

Name: Tokyo Toyosu Manyo Club CO., Ltd.
Industry: Hotel
Location: Tokyo, Japan

Challenges

• High risk of sensitive information disclosure due to a lack of network segmentation
• High costs in managing hundreds of devices
• Difficult to ensure high-frequency Wi-Fi connections due to signal interference
• Limited technical resources for deployment and installation

Solutions

• Controller: OC300 ×5 & OC200 ×2
• Gateway: ER7206 ×1
• Switch: TL-SG2008 ×26, TL-SG3210 ×4, TL-SG3452X ×2, TL-SG3428X ×1, and TL-SG505 ×2
• Ceiling Mounting AP: EAP670 ×124 & EAP245 ×10
• Wall AP: EAP615-Wall AP × 69
• Outdoor AP: EAP650-Outdoor ×4

Omada delivered a reliable and high-performance Wi-Fi 6 solution with centralized management solution perfectly suited for Tokyo Toyosu Manyo Club.

Secure and Efficient Centralized Management with the Omada Hardware Controller

5 Omada OC300 and 2 OC200 controllers were strategically deployed at Tokyo Toyosu Manyo Club to offer centralized management for hundreds of devices, ensuring rapid issue resolution and cost efficiency. Seamlessly integrated into their private cloud, they comply with strict data sovereignty standards, ensuring that sensitive information—such as payment details and customers data—is stored locally, protecting core systems like POS and offices from external threats. Features such as Quality of Service (QoS) and bandwidth control are ideal for efficient traffic management, significantly ensuring stable Wi-Fi connections. The controller's hot backup feature allows for quick data restoration in case of a main system failure, minimizing financial losses due to transaction delays.

Dedicated VLANs and SSID Management Ensure Safe and Stable Hotel Wi-Fi

Omada tailored 5 independent network segments for Tokyo Toyosu Manyo Club, optimizing traffic isolation for guest Wi-Fi, office communications, and POS systems to address different needs actively. The multi-SSID configuration allows for the creation of dedicated Wi-Fi networks for guests, employees, and business operations, providing comfortable Wi-Fi connectivity anywhere on the premises. Various authentication methods, such as WPA3-Enterprise and portal authentication, further strengthen network security and stability.

Seamless, High-Speed Wi-Fi 6 Coverage Across 34,000 Square Meters

With Omada's high-speed Wi-Fi 6 solution, customers were able to benefit from reliable and seamless Wi-Fi across the hotel. All access points offer dual-band speeds with 802.11ax technology, ensuring dependable network performance. Key features such as 2×2 MU-MIMO and OFDMA efficiently handle multiple clients without compromising performance. Versatile switch models, ranging from 8 to 48 ports, are perfectly tailored to match the device count and usage needs of each floor, maximizing performance efficiency while minimizing unnecessary costs.

Rich Features Simplify Deployment for Hotels

With Omada SDN, similar configurations—such as guest room Wi-Fi and public area Wi-Fi—can be deployed across multiple devices simult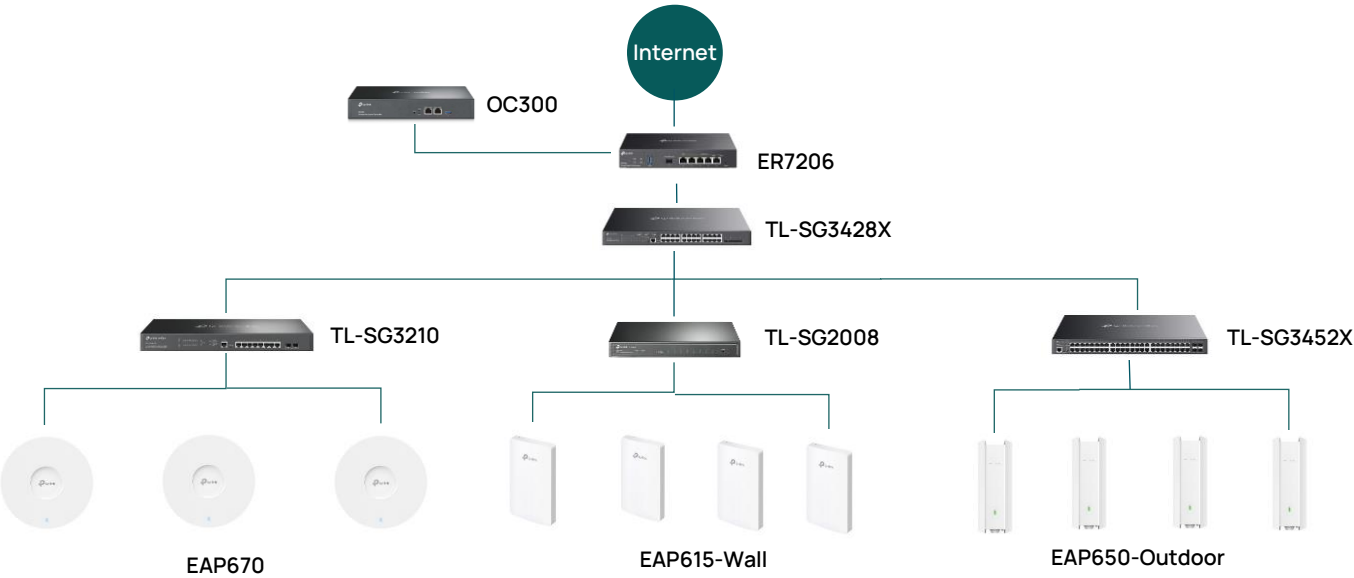aneously, ensuring a faster and more efficient setup. All switches and access points support PoE, eliminating the need for extra electrical wiring and simplifying cabling while cutting installation costs. Omada Mesh enables seamless wireless connectivity between Omada's APs, creating a full indoor and outdoor Wi-Fi mesh with minimal cabling. This setup reduces extensive wiring needs, lowering cable costs. Self-healing features ensure uninterrupted connectivity, preventing disruptions that could impact user experience.

High-Quality Services to Address All Concerns

Omada offers customized solutions designed to address the unique challenges of the hotel 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, Manyo Club group plans to incorporate more Omada devices in future projects.

"While there were other products available, Omada proved to be the most convenient. As a Sier, I managed operations without incurring additional costs, and I can oversee all situations on screen, simplifying issue resolution."

——Morio Meguro, General Manager, Facility Management Department/Business Promotion Division

Note: The topology has been simplified and only displays selected products.