Omada Delivers Reliable Wi-Fi 7 Connectivity for 3,200+ Event Participants at ACUTELAN in Spain

Project Scope

Provide stable Wi-Fi 7 connectivity for over 3,200 participants

Customer Profile

Name: Feria ACUTELAN
Industry: Events
Location: Fermasa, Armilla (Granada)

Solutions

- EAP783 ×4
- EAP723 ×2
- EAP772-Outdoor ×1
- Omada Cloud-Based Controller

Omada delivered a swift, smooth, and reliable Wi-Fi 7 network solution for ACUTELAN 2025—an event hosting over 3,200 attendees and numerous mobile demo devices in constant motion.

High-Speed, Reliable Connectivity for High-Density Scenarios via Omada Wi-Fi 7 APs

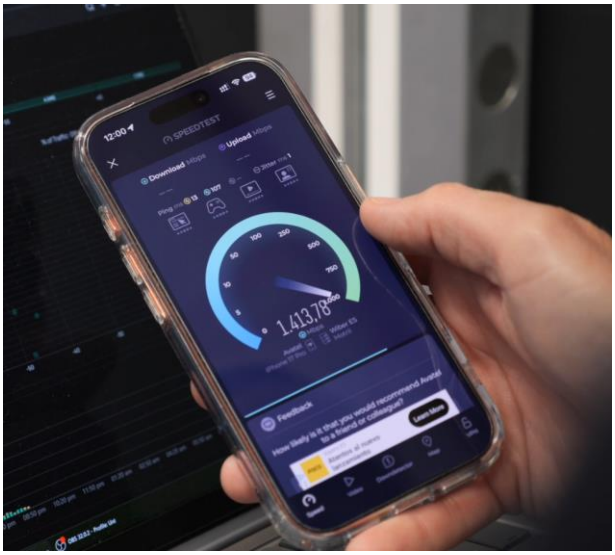
As a premier telecom and networking event, ACUTELAN required seamless connectivity for all participants. This involved managing spectrum congestion from concurrent networks while guaranteeing sufficient bandwidth and low latency, even at peak times. To achieve this, Omada Wi-Fi 7 access points—combining EAP783, EAP723, and EAP772-Outdoor—were deployed to cover indoor and outdoor environments, delivering ultra-high-speed network access.

With outstanding Wi-Fi 7 technology, specifically, EAP783 supports tri-band connectivity (2.4 GHz, 5 GHz, and the new 6 GHz band). The 6 GHz band provides a cleaner spectrum with less interference, reducing congestion in existing bands during high-density usage. By offloading devices to this band, network capacity and performance are boosted.

EAP783 also supports MLO (Multi-Link Operation), allowing devices to communicate simultaneously across multiple bands. This balances the load between bands, avoiding single-band overload. If congestion or interference arises, devices can dynamically switch—or use multiple links concurrently—to boost throughput, reduce latency, and deliver more stable, faster connections in dense environments.

With strong, consistent Wi-Fi coverage and support for seamless roaming standards (802.11k/v/r), Omada APs ensured participants and devices enjoyed uninterrupted streaming as they moved, automatically switching clients to the access point with the optimal signal.

Thanks to this deployment, ACUTELAN 2025 provided exhibitors and visitors with a network experience surpassing conventional wired connections. Download speeds reached 1.4 Gbps during peak times, with upload speeds nearing 1 Gbps.



Fast and Simple Centralized Network Management with the Omada Controller

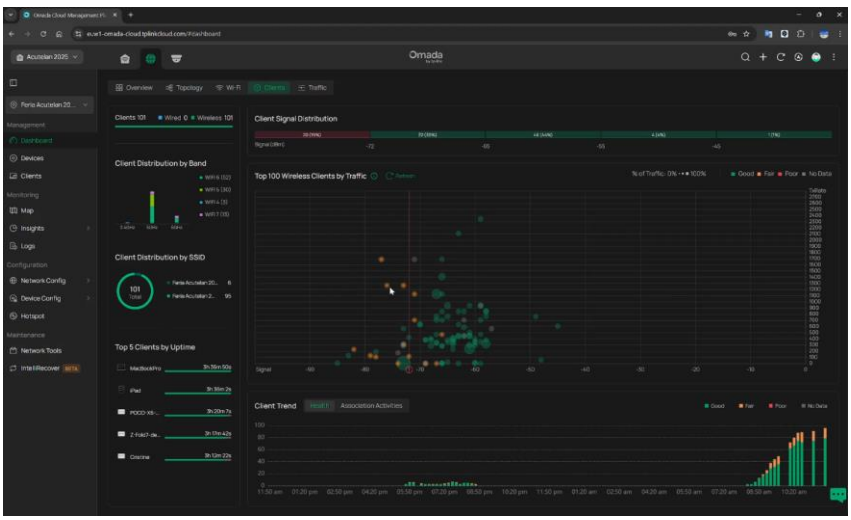
All devices were connected and managed through the Omada Cloud Platform, enabling real-time centralized monitoring, optimized connection density and speeds, and stable network performance throughout the trade show.

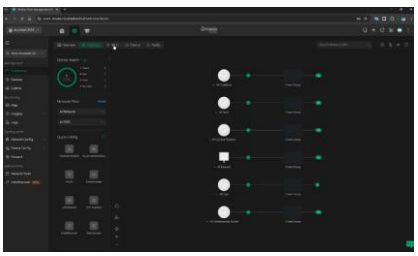
The Omada Controller provides comprehensive network monitoring, delivering instant clarity with its intuitive dashboards—Overview, Topology, Wi-Fi, Client, and Traffic. Rich visual insights offer faster monitoring and key data tracking, enabling prompt adjustments and optimal outcomes.

Expert Planning & Execution: Technical Support Delivers Results

To accommodate the exhibition's tight setup schedule, engineers meticulously planned each wireless access point's deployment location, taking into account user density, booth layouts, pedestrian traffic flow, and potential wireless spectrum congestion.

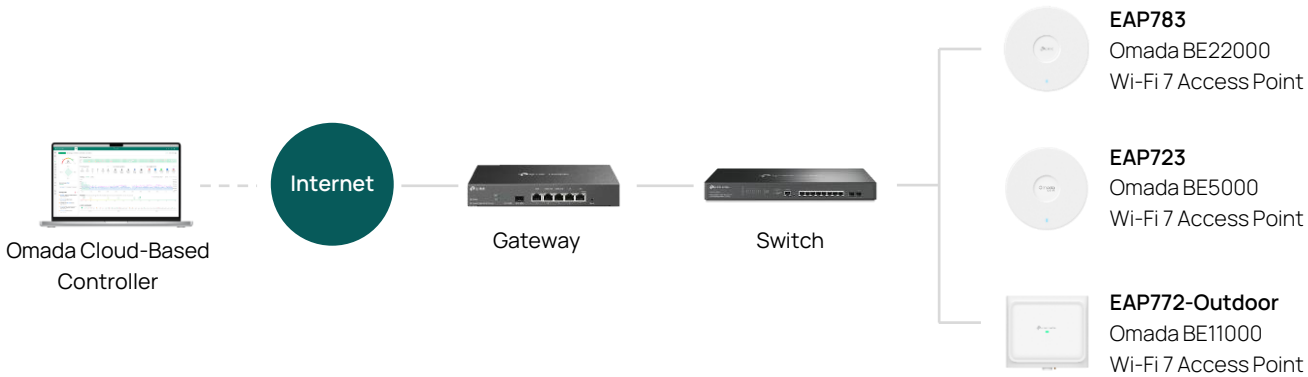
Thanks to this careful planning and execution, a consistent, stable, and high-speed connection experience was maintained throughout the trade show. This allowed exhibitors and visitors to enjoy reliable, high-performance connectivity at all times, solidifying ACUTELAN's status as an innovative, high-tech event.





> Regarding the performance they are delivering, all the exhibitors using them are reporting the same thing: they are getting faster speeds over Wi-Fi than via cable. We had never achieved this level of performance on any network we had set up before, and I believe that no event ever organized here at the trade fair has seen performance even remotely similar.
>
> —Mr. Andrés

Watch the video to learn more: https://www.youtube.com/watch?v=RnBxRNi52oY



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

Visit https://www.omadanetworks.com or contact your local Omada sales for more information.

TP-Link is a trademark of TP-Link Systems Inc. and its affiliates. Copyright ©2026 TP-Link Systems Inc. All rights reserved.