



Release Notes for the Firmware 1.9.9 of Omada Controller OC400

Comes with Omada Network 6.0

Version Info

The Controller version is fully compatible with the Omada app **version 5.0.x**.

Supported Device Models

1. Added support for Access Points: EAP 787 v1.0
2. Added support for Gateways: ER701-5G-Outdoor v1.0, DR3650v(EU)1.20, ER706W-4G(EU)2.20, ER706WP-4G(EU) 1.20, ER706WP-4G(US)1.26, ER8411(UN)1.20, DR3220v-4G(EU)1.20, DR3650v-4G(EU)1.20, ER7206(UN)2.30, ER7406(UN)1.20, ER706W(EU/US)1.30, ER706W-4G(US)1.30, ER605(UN)2.30, ER707-M2(UN)1.30, ER7412-M2(UN)1.30
3. Added support for OLTs: DS-MCUA

New Features

1. Added support for displaying VLAN information, offline devices, and isolated devices in the topology view in **Site View > Dashboard > Topology**.
2. Added offline-client support, a unified export button, and advanced search (online/offline) in the Client list; removed Past Connection and Known Client pages from Insights.
3. Optimized Client Details layout with new Overview, Statistics, Connection Logs, Tools, and Config tabs in **Site > Clients > Client Details**.
4. Added support for a client online-timeline in the Client Details view in **Site View > Client > Overview**.
5. Added support for a Connection Logs timeline in **Site View > Client > Connection Logs**.
6. Optimized wireless client on/off-line detection for AP6.0 firmware, reducing controller notification latency to 0-5 seconds.

7. Added support for wireless client device-type, vendor, model, OS, and version identification in **Global > Settings > Controller Settings > Services**, with results shown in the Client List and Details pages (AP 6.0 firmware, Cloud Access required).
8. Added support for LAN Isolation configuration, a new VLAN setting designed for networks where an Omada Gateway serves as the DHCP Server Device, enabling segment isolation and editing based on this configuration in **Site > Network Config > LAN > Isolation Settings** and in **Site > Network Config > LAN > VLAN > Add/Edit** for Gateway devices running firmware version 5.15.
9. Added support for a topology link diagram in **Device > Device Details > Overview**.
10. Added support for an online/offline timeline in **Device > Device Details > Overview**.
11. Optimized Device Details layout with new log and tools modules in **Device > Device Details**.
12. Optimized EAP/Bridge AP Details layout with updated config and statistics modules in **Device > AP Details**, and fixed mesh traffic chart accuracy in **Device > AP Details > Statistics**.
13. Optimized Switch Details layout with expanded statistics and streamlined config access in **Device > Switch Details**.
14. Optimized Gateway Details layout with new network view and config modules, plus added SIM and Transmission settings, in **Device > Gateway Details**.
15. Optimized OLT detail layout with additional data charts in **Device > OLT Details**; added Management System Interface configuration under **Device > OLT Details > Config > System > Central Management** and streamlined config entries for ARP table and interface.
16. Added support for OUI-Based VLAN on Switch 6.0 firmware in **Site > Network Config > Transmission > OUI Based VLAN**.
17. Added support for custom DHCP Option on Switch 6.0 firmware in **Device > Switch Details > Config > VLAN Interface > DHCP Server** and **Site > Network Config > LAN > VLAN > Add/Edit**.
18. Added support for advanced Multicast configuration on Switch 6.0 firmware, integrating VLAN, switch, and port associations and enabling IGMP/MLD Snooping options, in **Global > Network Config > Network Settings > LAN > Multicast** and **Device > Ports > Config > Multicast Fast Leave / Device Config > Switch > Switch Ports > Port Profile > Multicast Fast Leave**.
19. Added support for STP Security on Switch 6.0 firmware in **Site > Switch Details > Port Config** and **Device Config > Switch Ports > Port Settings / Port Profile**.
20. Added support for /31 subnet masks on VLAN interfaces on Switch 6.0 firmware in **Site > Switch Details > VLAN Interface** and **Site > Network Config > LAN > VLAN > Add/Edit**.
21. Added support for Storm-Control with ratio configuration on Switch 6.0 firmware in **Site > Switch Details > Port Config > Bandwidth Control** and **Device Config > Switch Ports > Port Profile > Bandwidth Control**.
22. Added support for Controller hot-standby redundancy in **Global > Settings > Cluster > Hot-Standby Backup**.
23. Optimized LACP behavior so member ports remain blocked until aggregation succeeds, shown in **Device > Details > Ports List**.
24. Added support for adopting and managing the OLT-X2 model in **Device > OLT Details > Config > System > Board Control**, including board-level upgrading, rebooting, and configuration (firmware DS-MCUA1.1.0).

25. Added support for multi-channel OLT configuration, removing the restriction that prevented standalone UI access while under Controller management (supported on DS-P7001-04, DS-P7001-08, DS-P8000-X2 with DS-MCUA $\geq$ 1.1.0).
26. Added support for OLT adoption and management in Controller cluster mode (all models, firmware production scheduled for 2025-Q3).
27. Added support for Network Check Tools—ping and traceroute—on OLT devices in **Site > Network Tools > Network Check** and **Device > OLT Details > Tools > Network Check** (all models and firmware versions).
28. Added support for Device Management to configure OLT devices in **Global View > Settings > System Settings**, compatible with models DS-P7001-04, DS-P7001-08, and DS-P8000-X2 (DS-MCUA) firmware version 1.1.0.
29. Added support for spectrum scan in **Device > AP Details > Statistics > Environment**.
30. Added support for interference detection in **Device > AP Details > Statistics > Interference Detection** and **Site > Network Tools > Interference Detection**.
31. Added support for configuring Enhanced Open MLO SSID in **Site > Network Config > Network Settings > WLAN**, allowing MLO to be enabled when the encryption is set to None, effective for WiFi 7 devices.
32. Added support for stream-mode packet capture, also known as remote real-time packet capture, in **AP Details > Tools > Packet Capture** and in **Site > Network Tools > Packet Capture**. This feature allows users to remotely monitor AP device packet capture interfaces via Wireshark, displaying captured packets in real time to meet the needs of scenarios requiring live traffic analysis.
33. Added support for adopting the Gateway 5G ODU model ER701-5G-Outdoor v1.0; configurations for IP-Passthrough mode reside in **Device > Details**, while standard routing mode settings are in **Site View** and **Device > Device Details**.
34. Added support for EoGRE Tunnel in **Device Config > EAP > EoGRE Tunnel** to enable SSID extension across physical locations.
35. Added support for custom logo uploads in voucher printing in **Configuration > Hotspot > Voucher Groups > Create/Edit Voucher Pattern** and **Voucher Group > Edit Voucher**.
36. Added support for the “Apply to all portals” option and daily usage limit for local users in **Configuration > Hotspot > Local User**.
37. Added support for overriding default LAN DHCP settings during adoption in **Network Config > Network Settings > LAN > Default**.
38. Added support for user-invitation emails in 23 languages, auto-aligned with the user’s locale.
39. Added a new port 29817 for device management. Please ensure that this port is open in your firewall settings.

Enhancements

1. Reorganized the Settings menu into Network Config and Device Config and added site-level configuration in the Device Details page.
2. Optimized UI with refreshed theme colors, tables, forms, icons, and charts
3. Optimized VLAN configuration process in **Network Config > Network Settings > LAN**.****
 - a) Streamlined setup into three steps: Network Parameter, Select Device Port, and Confirm/Apply.
 - b) Adjusted the modification process to align with the new setup steps.
 - c) Enhanced the network display interface with UI improvements.

- Optimized Switch Port configuration by replacing Profile-based Native/Tag/Untag settings with per-port private configuration and introduced cross-device bulk management of Tag, Network, and Profile settings in **Device Config > Switch Ports > Port Settings**.
- Optimized Dashboard chart library with new Overview, Topology, Client, and Traffic tabs, including AP Density & Activity charts in **Site View > Dashboard**.
- Optimized Statistics menu to retain only Application Analytics in **Site View > Insights > Application Analytics**, moving other metrics to Dashboard, Reports, and details pages.

The position changes of the original content are as follows:

Original Location	New Location
Performance	Device Details
Switch Statistics	Switch Details > Port
Application Analytics	Dashboard > Traffic Insight > Application Analytics

- Optimized Insights menu by: a) Adjusting the menu structure to separate operational data from statistical chart data. b) Merging statistical charts for a unified display. c) Placing configuration records on their respective settings pages.

The position changes of the original content are as follows

Original Location	New Location
Session Limit	Gateway Details > Network View > Session Limit
Known Clients	Clients
Past Connections	Clients
Past Portal Authorizations	Hotspot > Authorized Clients
Switch Status	Configuration > Device Config > Switch > Switch Ports
Port Forwarding Status	Gateway Details > Network View > Port Forwarding Status
VPN Status	Configuration > Network Config > VPN > VPN Status
Routing Table	Gateway/Switch Details > Network View > Routing Table
Dynamic DNS	Gateway Details > Config > Advanced > DNS
Rogue APs	Network Tools > Interference Detection
Threat Management	Gateway Details > Config > Network Security > IDS/IPS
QoS Data	Gateway Details > Network View > QoS Data

- Optimized Reports framework with customizable tabs, card visibility/sort order, and multi-tab export in **Site View > Insights > Reports**.
- Optimized Logs by adding 30-day historical data filters in **Logs > Alerts** and **Logs > Events**, and relocating Audit Logs in **Logs > Audit Logs**, device-type filters in **Logs > Settings > Alerts/Events > Content Settings**, and Remote Logging in **Logs > Settings > Advanced**.
- Optimized Rogue AP into Network-wide Interference Detection for batch scans and per-device results in **Site > Network Tools > Interference Detection**.
- Optimized wireless routing by displaying accurate maximum associated clients in **Device > Wireless Router Details > Config > Wireless > Advanced** and adding PPSK scaling in **Network Config > Profile > PPSK**.
- Optimized table persistence to save user-defined pagination across sessions in **Devices**, **Logs**, **Clients**, and **Device Config > Switch Ports > Port Settings**.
- Added inline explanations for each permission item via tool tips in **Role Permission Configuration**.
- Added display of the public IP for pending devices in **Device List > Controller Connection IP**.

15. Added Device Reconnected log type and offline-duration tracking in **Site > Logs > Events > Device**.
16. Added support for Switch syslog forwarding in **Logs > Settings > Advanced** when Client Details Logs is enabled.
17. Optimized default RSTP and loopback-detection settings in **Device > Switch Details > Config > Services > Loopback Control**.
18. Added edge-port risk warnings on STP configuration in **Device > Switch Details > Port Config**, in **Device Config > Switch Ports > Port Settings**, and in **Device Config > Switch Ports > Port Profile**.
19. Optimized Switch onboarding by enabling adoption via custom management VLAN and auto-syncing related VLAN Interface, Port, and Static Route configurations in **Device > Switch Details**.
20. Added Remember Device support for switch stacks in **Device > Stack Details > General**.
21. Added routing table and OSPF neighbor display in **Device > Switch Details > Network View**.
22. Optimized VLAN Interface capacity beyond 16 entries, device-dependent, in **Device > Switch Details > VLAN Interface**.
23. Added support for gateway capability warnings in **Network Config > VPN**, in **Network Config > Security > URL Filtering > Gateway Rules**, in **Network Config > Security > Firewall > Attack Defense**, in **Device > Gateway > MAC Filtering**, in **Device > Gateway > Dynamic DNS**, and in **Device > Gateway > IPTV**.
24. Optimized Portal IP auto-refresh behavior with manual input box in **Global > Settings > System Settings > Access Config** and in **Site > Network Config > Authentication > Portal**.
25. Added support for batch-adopt result pop-ups in **Global > Device List > Add Device > Auto Find** and in **Site > Device List > Batch Action > Batch Adopt**.
26. Optimized VLAN range expansion to 1-4094 for Switch/third-party devices and restricted to 1-4090 when Gateway or its LAN port is selected in **Network Config > Network Settings > LAN**.
27. Added support for site search in **Global > Settings > Export Data**.
28. Optimized temporary user permissions with risk warnings in **Accounts > User** and in **Accounts > SAML Role**.
29. Optimized performance by removing support for Built-in RADIUS in **Global View > Settings > Server Settings > Built-in RADIUS** on OC200.

Bugs Fixed

1. Fixed load-balance ratio anomalies by auto-recommending optimal weights on WAN port changes in **Network Config > Network Settings > Internet**.
2. Fixed wired/wireless traffic statistics inaccuracies and added Internet WAN-traffic charts in **Reports > Summary > Traffic > All Network**, in **Dashboard > Traffic > Traffic (All Network)**, in **Reports > Summary > Traffic > Internet**, and in **Dashboard > Activity**.
3. Fixed SSID Summary Report missing traffic data for some APs in **Report > Wireless > Top 20 SSIDs (Traffic)**.
4. Fixed Dashboard traffic chart inconsistencies between “yesterday” and “last 24 h” selections in **Report**.
5. Fixed search functionality for specific module tabs.

6. Fixed SSL VPN certificate export failure when site name contains special characters in **Settings > VPN > VPN Settings > VPN > SSL VPN**.
7. Fixed duplicate descriptions on the ALG introduction page in **Transmission > NAT > ALG**.
8. Fixed the iOS Omada app overwriting Local Username and phone fields in **Hotspot > Local User**.
9. Fixed Open API documentation mismatch for Get site switch 802.1x setting by removing the "switches" parameter in **Online Open API Document > Authentication > Get site switch 802.1x setting**.
10. Fixed CVE-2025-25193 by upgrading the Netty version to mitigate DoS attack risk.

Notes

1. The Omada SDN Controller can only manage certain devices running the supported firmware. Please confirm that your device is compatible with the SDN Controller.
2. To strengthen overall security, we recommend upgrading all devices to the latest firmware.