



Release Notes for the Firmware 1.7.11 of OC220(UN) 1.6, OC220(UN) 1.0

Comes with Omada Network 6.3.0.45

Version Info

The Controller version is fully compatible with the Omada app **version 5.3.x** or above.

Supported Device Models

Added support for the following AP models: **Beam Bridge 7 KIT 1.0, AP9788 1.0**

For a complete list of devices supported by Omada Controller, please refer to: [Omada Cloud SDN Platform Compatibility List](#).

New Features

1. Unified Pro Controller and Standard Controller into a single Omada Controller platform. Standard Controllers now support all features previously available in Pro Controllers. C5300 running Pro Controller v1.10.26 can be upgraded directly to Omada Controller v6.3 and no longer requires a license after upgrading.
2. Added support for Intelligent Incident Detection, available at **Site > Incidents**. The system automatically identifies network issues, analyzes root causes, and provides troubleshooting recommendations. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer; Managed Switch firmware 6.4 or newer; Agile Switch firmware 6.3 or newer; Gateway firmware support. Not supported on OC200.)
3. Added support for Wired Client Health Score, available at **Client Details > Overview**. Health scores are calculated based on client access status and link health metrics. (Not supported on OC200.)
4. Added support for the Client Distribution by SNR chart, available at **Site > Dashboard > Client**, providing real-time visibility into client signal quality distribution.
5. Added support for additional monitoring charts in Reports, available at **Site > Insights > Reports**. Added Top Packet Loss & Error to the Top 5 Switches report, Top EAP Connection Failure to the Top 5 APs report, and RSSI Trend, SNR Trend, and Data Rate Trend charts to

- Client & Application reports. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer; Managed Switch firmware 6.4 or newer.)
6. Added support for device replacement using spare APs and Switches, available at **Device Details > Action > Replace with Spare**. Replacement devices can inherit configurations automatically through Device Key assignment.
 7. Added support for enhanced OUI Based VLAN functionality, available at **Site > Network Config > Transmission > OUI Based VLAN**. Improves VLAN assignment accuracy for devices matched by OUI-based rules. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer; Managed Switch firmware 6.4 or newer; Agile Switch firmware 6.3 or newer.)
 8. Added support for Wireless IDS/IPS (WIDS/WIPS), available at **Site > Network Config > Security > Wireless IDS/IPS**. Supports wireless threat detection and protection mechanisms such as Deauthenticate and Dynamic Block List. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer. Not supported on OC200, ER7212PC 1.0.)
 9. Added support for device search and IP address sorting in Device CLI Profiles, available at **Site > Network Config > General Settings > CLI Configuration > Device CLI**.
 10. Added support for configuring Native Network as Tagged Networks and Voice Networks, available at **Device Details > Ports** and **Device Config > Switch > Switch Ports > Port Settings**.
 11. Added support for site-level Hash Algorithm, Jumbo Frames, and SNMP settings. Devices can inherit configurations through the Use Site Settings option. Hash Algorithm and Jumbo Frames settings are supported on Switches only. SNMP v3 settings are not supported on Agile Switches.
 12. Added support for MLO (Multi-Link Operation) Mesh deployments with MLO link identification and band-specific information display. Currently supported on Beam Bridge 7 KIT 1.0. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer.)
 13. Added support for Link Aggregation (LAG), available at **Device Details > Ports > LAG**. Multiple physical ports can be combined into a single logical uplink interface. Currently supported on AP9788. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer.)
 14. Added support for dual PoE power monitoring, available at **Device Details > Ports**. Displays real-time power status for both PoE ports and provides notifications when power is insufficient. Currently supported on AP9788. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer.)

Enhancements

1. Optimized WLAN configuration for AP Groups, available at **Site > Network Config > Network Settings > WLAN > SSID**. SSIDs can now be associated with multiple AP Groups through a more flexible many-to-many deployment model, simplifying configuration and improving management visibility.
2. Optimized Device Health Score evaluation, available at **Device Details > Overview**. Added more health indicators and enhanced visibility into network quality and device status. For upgrade impact on health scores, see **Note 4**. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer; Managed Switch firmware 6.4 or newer; Agile Switch firmware 6.3 or newer; Gateway firmware support. Not supported on OC200.)
3. Optimized Wireless Client Health Score evaluation, available at **Client Details > Overview**. Added DHCP, DNS, SNR, and abnormal event metrics, and enhanced support for MLO clients. For upgrade impact on health scores, see **Note 4**. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer. Not supported on OC200.)
4. Optimized Wi-Fi Health Score evaluation, available at **Site > Dashboard > Wi-Fi > Last 24h Wi-Fi Experience**. Enhanced wireless client quality analysis and replaced the client access time metric with a more comprehensive wireless client quality assessment. For upgrade impact

- on health scores, see **Note 4**. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer. Not supported on OC200.)
5. Optimized health monitoring by integrating charts from the previous Pro Controller Health menu into **Dashboard** and **Reports**, providing more centralized access to real-time statistics and historical trends.
 6. Optimized the Built-in RADIUS Server by adding a Description field for MAC Authentication users, available at **Site > Network Config > RADIUS Profile > Built-in Radius Profile**. (Not supported on OC200, ER7212PC 1.0, and ER7212PC 2.0.)
 7. Optimized device import functionality. Device Keys can now be imported without hyphen separators when adding devices in bulk through spreadsheets, available at **Site > Device List > Import**.
 8. Optimized topology discovery for third-party gateway deployments, improving identification of third-party gateway root nodes in topology views, available at **Site > Dashboard > Topology**. (Requires Managed Switch firmware 6.4 or newer.)
 9. Optimized Dashboard monitoring by adding the ISP Load widget to **Site > Dashboard > Overview > Activity**, providing quicker access to ISP traffic statistics.
 10. Optimized Omada App synchronization by supporting real-time synchronization of Global Controller Name, Time Zone, and Daylight Saving Time settings, as well as Site Name, Time Zone, and Daylight Saving Time settings. Configuration changes are automatically pushed from the Controller to the Omada App. (Requires Omada App v5.3 or later.)
 11. Optimized Batch Configuration, available at **Site > Devices > Batch Action**. Added support for SNMP configuration and the options **Keep Existing**, **Use Site Settings**, and **Custom**.
 12. Enhanced ES Switch capabilities with support for SNMP and STP/RSTP features. (Requires Agile Switch firmware 6.3 or newer.)
 13. Optimized Static Route configuration by adding a Description field, available at **Device Details > Manage Device > Config > Routing > Static Route**.
 14. Optimized port and LAG configuration workflows, available at **Device Details > ManageDevice > Ports**. Supports direct LAG creation and configuration from multi-selected ports.
 15. Optimized switch port layout display to better match the physical port arrangement of actual switch hardware, available at **Device Details**.
 16. Optimized Network Check tools by adding IPv6 support for Ping, Traceroute, and DNS Lookup, available at **Site > Network Tools > Network Check** and **Device Details > Manage Device > Tools > Network Check**. (Requires Managed Switch firmware 6.4 or newer.)
 17. Optimized DDM monitoring by supporting Tx/Rx power display in both dBm and mW, and temperature display in both °C and °F, available at **Device Details > Manage Device > Ports**.
 18. Optimized Switch QoS configuration, available at **Site > Network Config > Switch QoS**. QoS rules can now be reordered through drag-and-drop operations.
 19. Optimized IPv6 configuration by adding support for ULA formats. (Requires Managed Switch firmware 6.4 or newer.)
 20. Optimized OSPF and Layer 3 interface configuration by adding Loopback Interface support, MTU configuration, and Path MTU Discovery (PMTUD) settings. (Requires Managed Switch firmware 6.4 or newer.)
 21. Optimized DHCP configuration workflows for VLANs, available at **Site > Network Config > LAN > VLAN**, simplifying configuration and improving usability.
 22. Optimized 802.1X authentication by adding Guest VLAN support for EAP devices, available at **Site > Network Config > Authentication > 802.1X > EAP 802.1X**. Clients can be assigned to a Guest VLAN when authentication fails or times out. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer.)
 23. Optimized AFC onboarding and configuration workflows. Privacy Policy and Regulatory Notice confirmations are now displayed when enabling AFC or adopting AFC-capable devices. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer.)

24. Optimized Device CLI Profiles by supporting device search by IP address, MAC address, and device name, as well as IP address sorting, available at **Site > Network Config > General Settings > CLI Configuration > Device CLI**.
25. Optimized AP Power Saving configuration, available at **Device Details > Config > Power Saving**. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer.)
26. Optimized IoT deployments by adding the Enhanced IoT Connectivity option for SSIDs, available at **Site > Network Config > Network Settings > WLAN > SSID**. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer.)
27. Optimized mDNS deployment by automatically selecting the appropriate device type for mDNS responder functionality, eliminating manual device selection requirements.
28. Optimized mDNS scalability for EAP devices by increasing the maximum number of supported mDNS rules from 16 to 20. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer.)
29. Optimized SSID availability with Conditional SSID Broadcast Control, available at **Site > Network Config > Network Settings > WLAN > SSID**. SSID broadcasting can be automatically suspended when uplink connectivity is unavailable and restored when connectivity recovers. (Requires Wi-Fi 6 and Wi-Fi 7 AP firmware 1.10 or newer.)
30. Optimized map services by adding support for MapTiler while maintaining compatibility with existing Mapbox configurations. Available at **Global Dashboard > Site Map** and **Site > Map > Device Map**.
31. Optimized Cloud Owner management by allowing Cloud Owner accounts to unbind their own TP-Link ID (Cloud Access), available at **Global View > Settings > Cloud Access**. After unbinding, the current user is automatically signed out.
32. Optimized client identification by expanding supported Client Types and Vendors, while enhancing automatic client recognition across APs, Switches, and Gateways, including devices running older firmware versions.

Notes

1. Please note that Controllers on different platforms may support different features, even when the first three digits of the version number are the same. For example, the Linux Controller currently supports Cluster Mode, while the Windows Controller does not yet support this feature.
2. The Omada SDN Controller can only manage devices running supported firmware versions. Please verify that your devices are compatible with the SDN Controller before upgrading.
3. Please note that devices marked with a "!" in the device list are running legacy firmware versions that will no longer be supported in Omada SDN Controller v6.4 and later. To avoid compatibility issues, upgrade the firmware on these devices as soon as possible.
4. Due to changes in health score indicators and calculation methods, health scores may vary after upgrading. The updated evaluation model uses additional indicators and refined scoring criteria to provide a more comprehensive assessment of network health.