Release Notes for the Firmware 1.3.10 of OC220 v1

Comes with Omada Network 6.1.0.19

Version Info

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

Supported Device Models

For the device models Omada Controller supports, you can refer to: Omada Cloud SDN Platform Compatibility List

1. Added support for Access Points: : EAP 725-Outdoor v1.0

New Features

1. Added support for automatic RF optimization through spectrum scanning and RRM: APs continuously report interference, the Controller applies user-defined optimization settings, and all changes are logged in History in Site > Network Config > WLAN > WLAN Optimization > Auto WLAN Optimization > Adaptive Mode.
2. Added support for RadSec (RADIUS over TLS) to secure SSID, MAC-Based, and 802.1X authentications on both APs and Switches in Site > Network Config >Profile > RADIUS Profile (requires the latest AP/Switch firmware; not yet available for Built-in RADIUS, RADIUS Proxy, Portal, or SSL-VPN).
3. Added support for expiration and bandwidth controls on PPSK-without-RADIUS profiles, letting administrators set time-based validity (permanent, calendar range, post-creation interval, or daily window) and rate-limit or custom-speed restrictions in Site > Network Config > Profile > PPSK (requires compatible AP firmware).
4. Added support for Auto VLAN assignment when bulk-generating PPSKs, automatically allocating VLANs across a user-defined range and step in Site > Network Config > Profile > PPSK.

5. Added support for EAP 802.1X authentication (moved from Pro), establishing port-based 802.1X between clients and switches in Site > Network Config > Authentication > 802.1X (requires updated firmware).
6. Added support for DHCP Option 82 configuration on SSIDs (moved from Pro), allowing relay-agent information to be inserted in DHCP packets in Site > Network Config > WLAN > SSID (requires updated firmware).
7. Added support for Bluetooth Console, enabling APP-based Bluetooth serial access and unifying Aging Time & Transmit Power settings in a new Radio Setting page, while extending IoT Transport Stream with WebSocket/MQTT/AMQP and SSL/TLS security in Site > Device Config > EAP > Bluetooth(requires updated firmware).
8. Added support for 802.11r fast roaming under WPA3-Enterprise encryption on SSIDs in Site > Network Config > WLAN > SSID (requires updated firmware).
9. Added support for automatic IP refresh on switches after a gateway change: when enabled in DHCP-client mode, switches periodically probe the gateway and re-request an IP if the probe fails, eliminating the wait for lease expiry after a gateway replacement or subnet modification in Site > Network Config > Site Settings > General Config > Automatic Gateway Detection. (requires updated firmware).
10. Added support for domain-name input in switch ping and traceroute troubleshooting tools in Site > Network Tools > Network Check and in Device > Switch Details > Tools > Network Check (requires updated firmware).
11. Added support for switch diagnostic tools—Packet Capture, ARP Table, and DNS Lookup—in Site > Network Tools and in Device > Switch Details > Tools > Network Check (requires updated firmware).
12. Added support for VRF (Virtual Routing and Forwarding) on L3 switches, allowing multiple isolated routing instances with overlapping IP addresses in Device Details > Config > VRF (requires device firmware upgrade).
13. Added support for FEC (Forward Error Correction) on switches, allowing users to turn error-recovery on or off to balance signal quality and latency in Device > Ports > FEC.
14. Added support for displaying LLDP and OSPF neighbor tables directly on the switch detail page to speed up troubleshooting in Device > Switch Details > Network View.
15. Added support for a global LLDP toggle that controls advertisement on gateways, switches, and APs to improve topology accuracy in Site > Network Config > Site Settings > General Config.
16. Added support for a new UI that sets Network, Port, and Custom QoS policies on any managed switch to mitigate congestion in Site > Network Config > Transmission > Switch QoS.
17. Added support for redundant RADIUS servers in Switch 802.1X: if the primary server times out, the switch automatically falls back to the configured backup servers in Site > Network Config > Authentication > Switch 802.1X > RADIUS Profile.
18. Added support for domain-name-based RADIUS servers for both authentication and accounting in Switch 802.1X in Site > Network Config > Authentication > Switch 802.1X > RADIUS Profile.
19. Added support for RADIUS CoA & DM in Switch 802.1X, enabling re-authentication and forced disconnect in Site > Network Config > Authentication > Switch 802.1X > RADIUS Profile.
20. Added support for preserving management VLAN, port, and static-route settings when adopting Agile Series switches through a user-defined management VLAN in Device > Switch Details > Port Config and Device > Switch Details > Management VLAN.

21. Added support for dynamic SDM templates that re-allocate hardware resources per feature (e.g., enlarge ACL scale) and a single-port mode for higher ACL utilization in Device > Config > General > Advanced.
22. Added support for DHCP Snooping in Controller mode, classifying interfaces as trusted or untrusted to ensure clients receive IP addresses only from authorized DHCP servers and to block DHCP-based attacks in Network Config > Security > IMPB.
23. Added support for an untagged Voice Network mode on switch ports with configurable DSCP priority to maintain voice-packet precedence across the network in Device > Switch Details > Port > Voice Network.
24. Added support for bulk license-unbind on Omada CBC controllers, allowing multiple devices to be released at once in Devices > Device List > Batch Action Batch Unbind.
25. Added support for simultaneous firmware upgrades on multiple stack groups that share the same master model in Devices > Device Group > Stack Group (multi-select) > Config.
26. Added support for simultaneous reboot of multiple stack groups in Devices > Device Group > Stack Group (multi-select) > Config.
27. Added support for model-based CLI configuration, letting administrators push different command sets per switch model in Site > CLI Configuration > Model CLI.
28. Added support for a free-text Description field on device and stack detail pages so users can record location or other notes in Device/Stack Details > General > Description.
29. Added support for pre-configuring Ethernet port settings on offline-added EAPs in Devices > EAP Details > Port.
30. Added support for user-selectable MAC-address delimiters (colon, hyphen, or none) and case formatting throughout the Controller UI in Global/MSP view > UI- Interaction > MAC Display Format.
31. Added support for persistent user preferences—chart filters, table page size, and similar settings are saved and restored automatically across visits to Dashboard, Reports, and other core pages.
32. Added support for a dedicated HTTPS port for firmware upgrades, separate from the main Controller web port, configurable in Global System Setting > Access Config > HTTPS Port for Upgrade.
33. Added support for Disable NAT on a per-WAN basis while allowing multiple WANs to share the same LAN subnet, available in Site > Network Config > Transmission > NAT > Disable NAT (requires new device firmware).
34. Added support for IP-Group-based ACLs on gateways: when direction is LAN→LAN, source and destination types can now be IP group, IP-port group, IPv6 group, or IPv6-port group in Site > Network Config > ACL.
35. Added support for Client Recognition on switches, and moved the toggle for Client Recognition to Global > Settings > History Data Retention > Client Data. It can display Type, Vendor, Model, OS, and Version in the Clients list and detail pages after enabling the feature with TCP port 29817 opening and Cloud Access. You can view results in Clients list/detail pages (requires device firmware upgrade, switch firmware 6.1).
36. Added support for rapid client online/offline notifications from switches to the Controller, cutting detection delay to 0–5 seconds, enabled automatically when switches run firmware 6.1, and TCP port 29817 is open.

37. *(OC200 V1 and OC200 V2 are excluded)* Added support for site-level health dashboards: 24 h site-health trend & radar score in Dashboard Overview, Device Health badges on the topology map, plus Wi- Fi Experience and Client Health charts in their respective Dashboard tabs in Site view > Dashboard.
38. *(OC200 V1 and OC200 V2 are excluded)* Added support for device health timelines: hourly Device Health timeline with sub dimension raw values inside every AP, Switch, and Gateway detail page in Site view > Devices > device Details.
39. *(OC200 V1 and OC200 V2 are excluded)* Added support for health reports: Site Health Score radar, Device Health Trend, Client Health Trend, WAN Health Trend, Switch Health Trend, Wi-Fi Health, and AP Health Trend charts in Site view > Insights > Reports.
40. *(OC200 V1 and OC200 V2 are excluded)* Added support for a “Client Health” toggle in Global view > Settings > History Data Retention > Client Data that controls whether client-level health scores (client health and Client Access Time & RSSI Dimensions for Wi-Fi health) are calculated; when disabled, all client-health charts are hidden across the site list, Dashboard, client list and report pages.
41. *(OC200 V1 and OC200 V2 are excluded)* Health data can be stored, and the storage duration is 2 days.

Enhancements

1. Optimized the PPSK Open API by adding endpoints that allow individual PPSK entries within a profile to be created or deleted in Site > Network Config > Profile > PPSK.
2. Optimized MAC Group scaling for switches: after a firmware upgrade, a single group can now deliver up to 2,000 MAC addresses instead of being truncated at 500 in Site > Network Config > Groups.
3. Optimized DHCP Server setup on switches by enabling multi-range address pools under each gateway/subnet when DHCP Server mode is selected in Switch Details > Config > VLAN Interface and Site > Network Config > LAN.
4. Optimized DHCP Reservation by letting users choose which DHCP server (gateway or switch) will honor each reservation in Site > Network Config > DHCP Reservation.
5. Optimized the locate function in Site > Devices > Device List, Site > Clients, Switch/Stack Details> port, and Site > Device Config > Switch Ports: a. When Locate Switch or AP, all ports of the current device will flash, and the peer port of the Switch connected to it will also flash. b. Clients connected to the Switch via a wired connection support locating. When locating a client, the peer port of the Switch connected to it will flash. c. Ports and lags of Switch and Stack support locating.
6. Optimized CLI feedback: erroneous commands issued via Site, Device, or Model CLI return immediate, highlighted error details in the configuration-result page in Site > Devices > Configuration Result.
7. Optimized the Map-Heatmap page by coloring APs according to their connection status.
8. Optimized stack-member ordering by sorting devices alphabetically by name in Device > Device Group > Stack Group.
9. Optimized bulk operations by allowing simultaneous configuration of General Config and Loopback Control across multiple switches in Site > Devices > Device List > Batch Action > Batch Config.

10. Optimized default chart behavior: the first online WAN port auto-expands in Gateway > port, the routing table defaults to the IPv6 tab when no IPv4 data exists in OLT Network View, and the Interference table defaults to the first populated band in Report > Top 5 Aps > Interference.
11. Optimized multicast UI by adding per-device exceptions for Unknown Multicast and Report Suppression in Network Config > LAN > Multicast Snooping.
12. Optimized IntelliRecover with configurable initial-reboot and retry-interval timers and relocated the feature to Site > Network Tools > IntelliRecover.
13. Optimized air-interface usage by adding SSID management-frame rate controls in Site > Network Config > WLAN > SSID > 802.11 Rate Control.
14. Optimized offline stack adoption by automatically onboarding all members instead of only the master in Devices > Device Group > Stack Group.

Bugs Fixed

1. Fixed bug where broadcast MAC addresses could not be added to MAC Groups in Controller mode.
2. Fixed bug: disabled zlib network compression protocol to patch MongoDB security vulnerability.
3. Fixed bug where Switch ACL entries failed to sync and took no effect when Source/Destination pointed to unused Networks, requiring a one-time config push after upgrade.

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.