



Release Notes for the Firmware 1.4.9 of OC220v1.0 & OC220v1.6

Comes with Omada Network 6.2.0.17

Version Info

The Controller version is fully compatible with the Omada app **version 5.0.3** or above.

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: Flex Bridge 5

New Features

1. Added support for configurable WAN-port PVID on gateways running firmware 6.2 in **Devices > Gateway Details > Ports**.
2. Added support for FTP and SIP ALG settings, including editable FTP/SIP signaling ports, protocol type, peer-to-peer restriction, inactivity timers, and media timeout, for gateways on firmware 6.2 in **Network Config > Transmission > NAT > ALG**.
3. Added support for e-mail alerts when new firmware is available in **Firmware > Overview > Upgrade Settings**: users can subscribe to any channel (default Stable) and receive automatic notifications whenever subscribed channels release new firmware images for devices on the controller, provided the mail server is configured.
4. Added support for a reorganized VPN management page in **Network Config > VPN** that unifies the entry workflow, maps legacy SSL VPN Server/User and WireGuard pages into the new structure, and expands WireGuard to server, client and auto site-to-site scenarios(requires Gateway 6.2 firmware).
5. Added support for configuring multiple DHCP address ranges within a single VLAN in **site - Network Config > LAN > VLAN** (requires Gateway 6.2 firmware).

6. Added support for allowing the number of local and remote subnets in VPN tunnels to scale to the limit advertised by the device firmware **in Network Config > VPN > VPN** (requires Gateway 6.2 firmware).
7. Added support for IPv4-over-IPv6 dial-up modes of MAP-E and DS-Lite on WAN interfaces, including optional custom DS-Lite domain names, in **Network Config > Network Settings > Internet**. Enabling these modes automatically activates IPv6. Some functions are not supported for DS-Lite and MAP-E dialing, including VPN, SD-WAN, IGMP, DDNS, UPnP, Disable NAT, Port Forwarding, and NAT ALG. (requires Gateway 6.2 firmware).
8. Added support for a new DHCP User List page on the gateway that displays all active DHCP clients when the gateway operates as the DHCP server **in Gateway Details > Network View > DHCP User List** (requires Gateway 6.2 firmware).
9. Added support for one-click creation of DHCP reservations from the DHCP User List, allowing administrators to import existing leases directly into the reservation table **in Network Config > Transmission > DHCP Reservation > Add From DHCP User List**.
10. Added support for Hotspot Viewer accounts to print voucher codes directly from the voucher list **in Hotspot > Vouchers > Voucher Groups**.
11. Added support for configurable DNS cache lifetime by adding a TTL setting to LAN DNS **in Network Config > Network Settings > LAN - LAN DNS** (requires Gateway 6.2 firmware).
12. Added support for remote packet capture on gateway WAN ports or VLANs to aid network diagnostics **in Network Tools > Packet Capture** (requires gateway 6.2 firmware).
13. Added support for rogue-DHCP-server detection: the gateway raises an alert whenever an unexpected DHCP server is detected on the LAN **in Logs > Alerts** (requires gateway 6.2 firmware).
14. Added support for on-device DNS resolution to query domain-to-IP mappings directly from the gateway **in Network Tools > Network Check > DNS Lookup** (requires gateway 6.2 firmware).
15. Added support for LAN-side IP-conflict detection; the gateway logs an alert whenever multiple MACs are detected using the same IP **in Logs > Alerts** (requires gateway 6.2 firmware).
16. Added support for Timing-based link-back (failover): users can configure a time range after which traffic automatically fails back to the standby WAN, supplementing the existing failover modes **in Site > Network Config > Network Settings > Internet** (requires gateway 6.2 firmware).
17. Added support for on-demand Speedtest **in Site > Dashboard** and scheduled Speedtest **in Site > Network Config > Network Settings > Internet**: initiate a test on any WAN or set daily/weekly/monthly schedules; results are graphed and stored historically (requires gateway 6.2 firmware).
18. Added support for extending configurable VLANs up to 4094 on gateways, covering WAN, LAN, virtual-WAN and IPTV interfaces **in Site > Network Config > Network Settings > Internet/LAN/IPTV** (requires gateway 6.2 firmware).
19. Added support for displaying the last-edit timestamp on each portal entry **in Network Config > Authentication > Portal**.
20. Added support for showing voucher balance and quota-limit reminders on the portal post-auth success page, along with remaining session time and, if rate-limiting is enabled,

remaining data for both voucher and local-user logins **on the client success page after authentication.**

21. Added support for uploading separate background images for mobile and PC endpoints when creating or editing a portal **in Network Config > Authentication > Portal > Add/Edit Portal > Design > Background > Unified Picture.**
22. Added support for using a hostname instead of an IP address for the RADIUS server in portal authentication **in Network Config > Authentication > Portal.**
23. Added support for voucher statistics grouped by voucher group, letting administrators view usage totals per group **in Hotspot > Vouchers > Statistics.**
24. Added support for LAN Network/VLAN columns in user tables, showing the network and VLAN where each client resides **in Dashboard > Traffic > Clients and Insights > Application Analytics > Users.**
25. Added support for displaying the timestamp and status of the latest GPS fix (manual or automatic) on EAP772-Outdoor **in AP Details > Config > General** (requires EAP772-Outdoor firmware 6.2).
26. Added support for configuring a NAS-ID in switch 802.1X authentication **in Network Config > Authentication > 802.1X** (requires switch firmware 6.2).
27. Added support for VLAN assignment when MAC-based authentication is selected in switch 802.1X **in Network Config > Authentication > 802.1X** (requires switch firmware 6.2).
28. Added support for choosing hybrid mode (802.1X first, MAB on failure), displaying downstream devices on switch ports, and configuring a guest VLAN in Network Config > Authentication > 802.1X (requires switch firmware 6.2).
29. Added support for transparent SSDP forwarding when both IGMP Snooping and unknown-multicast discard are active by introducing the "Flood Known Protocols" option **in Network Config > Network Settings > LAN > Multicast Snooping** (requires Switch 6.2 firmware).
30. Added support for real-time LACP member-status indication: LAG list now shows green for successfully negotiated, up members and red for failed members, with failure logs sent by the switch and stored in the Controller **in Switch Details > Ports > LAG List** (requires Switch 6.2 firmware).
31. Added support for in-place toggling between Active and Passive LACP modes without deleting and recreating the LAG; Static LAG mode remains unchanged **in Switch Details > Ports > LAG Detail** (requires Switch 6.2 firmware).
32. Added support for displaying the last-known uplink device and uplink port columns in the device list, preserving this information even after the device goes offline **in Devices > Device List.**
33. Added support for configuring multiple DHCP-relay server addresses on a Switch VLAN interface (quantity limited by hardware) **in Switch Details > Config > VLAN Interface > DHCP Relay** (requires Switch 6.2 firmware).
34. Added support for VLAN-aware topology highlighting: links in the VLAN topology diagram now change color to indicate whether the selected VLAN's traffic can traverse each connection **in Network Config > Network Settings > LAN and Dashboard > Topology.**
35. Added support for SDM template integration, allowing administrators to view and modify SDM template options directly within switch device templates **in Site Template > Device Template (switch) > Config > General > Others > SDM Template** (requires Switch 6.2 firmware; supported models listed).

Enhancements

1. Optimized the Internet page by moving Virtual WAN under Port Config and merging the separate Port Config and Load Balancing submit buttons into a single bottom action **in Site > Network Config > Network Settings > Internet**.
2. Optimized Load Balancing logic to apply device-side settings when WAN Settings Overrides is disabled and added real-time port-status indicators under each WAN weight field to prevent user confusion **in Site > Network Config > Network Settings > Internet > Load Balancing** (requires gateway 6.2 firmware).
3. Optimized Portal creation/editing with a rebuilt layout that groups settings more intuitively and exposes additional component-customization options **in Network Config > Authentication > Portal**.
4. Optimized IP-input fields throughout the UI to accept a copied IP address pasted as a single string.
5. Optimized Cloud Access with a redesigned connection flow that reduces cloud-request latency and improves overall user experience **in Settings > Cloud Access**.
6. Optimized the DPI Rules Management page by replacing the single QoS toggle with a type selector that lets users choose between ACL and QoS rule types **in Site > Network Config > Security > Application Control > Rules Management**.
7. Optimized controller security with built-in brute-force protection that locks login attempts after repeated password failures on "managed by other" devices **in Controller** (available now for AP & Gateway; Switch & OLT support planned for firmware 6.3).
8. Optimized public OpenAPI documentation by completing deprecated-interface descriptions and correcting the categorization of site-template endpoints.

Bugs Fixed

1. Fixed bug where RADIUS Message-Authenticator was not forcibly validated, which could lead to RADIUS protocol security vulnerability (CVE-2024-3596), by adding support for enforcing Message-Authenticator verification when the "Require Message-Authenticator" option is enabled, in **Site > Network Config > Profile > RADIUS Profile** and **Global/MSP > Settings > Server Settings > RADIUS Server**.
2. Fixed bug where RADIUS packets containing the Proxy-State attribute did not enforce Message-Authenticator validation, potentially exposing the system to RADIUS protocol security vulnerability (CVE-2024-3596), by adding support for limiting Proxy-State and enforcing Message-Authenticator verification when the "Limit Proxy-State" option is enabled, in **Site > Network Config > Profile > RADIUS Profile** and **Global/MSP > Settings > Server Settings > RADIUS Server**.

Notes

1. Please note that Controllers on different platforms may vary in features, even if their first three digits of the version code are the same. For example, the Linux Controller currently supports Cluster Mode but the Windows Controller doesn't support it yet.
2. The Omada SDN Controller can only manage certain devices running the supported firmware. Please confirm that your device is compatible with the SDN Controller.
3. Since version 5.14.32, the Omada Software Controller no longer supports upgrading from Controller v4.

4. To strengthen overall security, we recommend upgrading all devices to the latest firmware.