Release Notes for Omada Software Controller V6.1.0

Version Info

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

Supported Device Models

For the device models Omada Software 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 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**.

2. 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**.

3. 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**.

4. Added support for a "Client Health" toggle in **Global/MSP 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.

5. Health data can be stored, and the storage duration is 2 days.

6. 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**(requires device firmware upgrade).

7. 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)

8. 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 device firmware upgrade).

9. 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**.

10. 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 device firmware upgrade).

11. 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 device firmware upgrade).

12. 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 device firmware upgrade).

13. Added support for 802.11r fast roaming under WPA3-Enterprise encryption on SSIDs in **Site > Network Config > WLAN > SSID** (requires device firmware upgrade).

14. Added support for automatic IP address update on switches after a gateway change in **Site > Network Config > Site Settings > General Config > Automatic Gateway Detection**. This global setting takes effect when the Controller is offline (ECS is not managed). With this feature enabled, all DHCP client VLANs on switches will periodically probe the routing gateway. If the probe fails, the VLAN will re-authenticate to obtain a valid IP address, preventing service disruption due to IP lease expiration and facilitating immediate IP updates after the routing gateway changes or subnet modifications(requires device firmware upgrade).

15. 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 device firmware upgrade).

16. 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 device firmware upgrade).

17. 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).

18. Added support for FEC (Forward Error Correction) on switches, allowing users to enable or disable error-recovery to balance signal quality and latency in **Device > Ports > FEC** (requires device firmware upgrade).

19. 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** (requires device firmware upgrade).

20. 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** (requires device firmware upgrade).

21. 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** (requires device firmware upgrade).

22. 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**(requires device firmware upgrade).

23. 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** (requires device firmware upgrade).

24. 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** (requires device firmware upgrade).

25. 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** (requires device firmware upgrade).

26. 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** (requires device firmware upgrade).

27. 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** (requires device firmware upgrade).

28. 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** (requires device firmware upgrade).

29. 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.**

30. 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**.

31. Added support for simultaneous reboot of multiple stack groups in **Devices > Device Group > Stack Group (multi-select) > Config**.

32. Added support for model-based CLI configuration, letting administrators push different command sets per switch model in **Site > CLI Configuration > Model CLI**.

33. 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**.

34. Added support for pre-configuring Ethernet port settings on offline-added EAPs in **Devices > EAP Details > Port**.

35. 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**.

36. 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.

37. 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**.

38. 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 device firmware upgrade).

39. 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**.

40. 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).

41. 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.

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** (requires device firmware upgrade).

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** (requires device firmware upgrade).

4. Optimized DHCP Reservation by letting users choose which DHCP server (gateway or switch) will honor each reservation in **Site > Network Config > DHCP Reservation** (requires device firmware upgrade).

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 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 (requires device firmware upgrade).

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** (requires device firmware upgrade).

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.

13. Optimized air-interface usage by adding SSID management-frame rate controls in **Site > Network Config > WLAN > SSID > 802.11 Rate Control** (requires device firmware upgrade).

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. 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.