

Built-in Omada SDN Controller V5.15.20.39

Upgrade Note(for OC200 & OC300)

If your built-in Controller version is earlier than v5.14, you can upgrade it by using a method below:

Method 1: Download the latest firmware file, then go to **Global View > System Settings > Hardware Controller Firmware > Manual Upgrade** and upgrade the firmware to Controller v5.15.20 directly.

Method 2: Go to **Global View > System Settings > Hardware Controller Firmware**, check for upgrade to get and upgrade to Controller v5.14.26, then check for upgrade again to get and upgrade to Controller v5.15.20.

1. Version Info

This version of the Controller is fully applied to the Omada APP v4.22 or above.

2. Supported Device Models

1. Added support for Gateways supporting dual SIM cards: DR3650v-4G v1.0, DR3220v-4G v1.0, ER706W-4G v2.0, and ER706WP-4G v1.0.
2. Added support for Switches: IES210GPP v1.0, IES206GPP v1.0, IES208G v1.0, IES206G v1.0, SG5452X v1.0, and SG5452XMPP v1.0.
3. Added support for Access Points: EAP668-Outdoor(EU/US) v1.0, and EAP772-Outdoor(EU/US) v1.0.
4. Added support for OLT: DS-P7001-01 v1.0(firmware update required).

3. New Features

1. Added support for AFC(Automated Frequency Coordination) with EAP772-Outdoor(EU/US)v1.0. The privilege of 6GHz Standard Power will be assigned to Access Points according to the device's location, so the available channels and the power of each channel can be adjusted dynamically. Here's the guide to configure AFC: [Getting Started with AFC](#).
2. Added support for Service Port Profile in Devices > OLT Properties Window > OLT Settings > PON > Profiles. This feature can help to create a service port automatically and simplify the configuration of the OLT PON unit.
3. Added support for Cluster (**Beta**) in Global View > Settings > Cluster, supporting only the Hot-Standby Backup Mode currently. For configuration instructions, refer to the FAQ: [How to Configure Hot-Standby Backup Mode on Omada Controller](#).
4. Added support for Google Authentication(**Beta**) in Site View > Settings > Portal > Authentication Type. Currently, Google Authentication can only be configured on SSID, and the device type must be Access Point. For Wireless Gateway, firmware compatible with Controller v5.15 is required. Here's the guide to configure Google Authentication: [How to Configure Google Authentication on Local Omada Controller](#).
5. *Added support for Disable NAT in Site View > Settings > Transmission > NAT.
6. *Added support for LAN DNS in Site View > Settings > Wired & Wireless Network > LAN.
7. *Added support for filtering with content in Site View > Settings > Network Security > URL Filtering. This feature can help network managers to achieve efficient, secure and convenient web access control by integrating a large number of categorized URL libraries.

8. *Added support for SD-WAN in Global View. Users can easily connect multiple gateways together without complicated VPN configuration through SD-WAN in enterprise scenarios.
9. *Added support for ARP Detection on Gateway. With this feature enabled, the dumb terminal can be detected, including POS, printer, etc.
10. Added support for 'Remember Device' in Site View > Settings > Site Settings > General Configure. With this feature enabled, after device reset and power-on, the Controller will automatically adopt the device if the controller can find it.
11. Added support for Role Super Administrator, which can manage all the other roles (except Owner, which used to be recognized as Main Administrator) and the privileges of most features.
12. Added support to edit Profiles All and Default in Site View > Settings > LAN > Switch Profile.

4. Enhancements

1. Optimized dependencies. Upgraded built-in JDK to version 21.
2. Optimized WAN Mode. Added support for automatic updates to the Gateway Model when a new model is released.
3. Optimized Portal Logout Page. Added support to show used and remaining data on the Logout page of Voucher/Local User Portal.
4. Optimized MAC Filtering. When adopting devices with MAC filtering enabled, the MAC address of devices will be added into Allow List automatically.
5. *Optimized Gateway ACL. Added support for choice as "!" -> "!". Customers can choose data resources and destinations that are not in a certain marked range, which allows customers to configure more flexible profiles.
6. *Optimized DHCP Reservation. Added support for DHCP option 60, 66 and 138.
7. *Added support for DNS Override in DNS Proxy.
8. *Optimized Attack Defense. Added support to customize the length of large PING.
9. *Optimized Network Transmission. Added support for domain in settings of OpenVPN and Wireguard VPN.
10. *Optimized LAN on the following features:
 - Added support to configure DHCP NEXT SERVER.
 - Added support to edit Default LAN port of gateway.
11. *Added support to display the Device MAC in the WAN port of gateway's properties window.
12. Added support for a maximum of 256 VLANs. *With gateway's firmware update, the maximum number can be 512.
13. Optimized LDAP Profile in Site View > Settings > Network Profile:
 - Added support for the maximum length of strings in Regular DN as 256.
 - Added support for the maximum length of strings in Regular Password as 256.
 - Added support for the maximum length of strings in Base Distinguished Name as 512.
 - Added support for the maximum length of strings in Additional Filter as 512.
 - Added support for the maximum length of strings in Group Distinguished Name as 512.
14. Added support to show the PPSK profile of SSID used by a client in Client List.

15. Optimized PoE Utilization chart. The Utilization will be calculated according to the power limit of each port.
16. Added support to enable and disable PoE Adapter Remote Reset in Devices > Properties Window(AP) > Config > General for EAP211-Bridge and EAP215-Bridge. With this function, the EAP can be reset remotely. Customers can choose to turn off this function to avoid it being triggered incorrectly due to a complex wireless environment.
17. Added support for 5000 entries in one Voucher Group.
18. *Added support to show DHCP LEASE TIME in Client List. This feature will show the remaining time of this assigned IP address for certain client.
19. *Added support for Downlink chart in Detail unit of Gateway's properties window. Downlink chart will show the information of downstream Omada devices connected to this Gateway.

5. Bug Fixed

1. Reduced potential security risks by forcibly redirecting HTTP requests and responses to HTTPS ones.
2. Fixed the bug that certain special characters ('_ - @ : / .') couldn't be configured for the Secret of Built-in RADIUS and the Authentication password/Accounting password/CoA password of Radius Profile, and added a prompted-out note.
3. Fixed the bug that the number of devices always showed as 0 when the start and end dates selected on the Report page were the same.
4. Fixed the bug that the token of the open API would immediately become invalid after copying a site.
5. Fixed some security issues.

Notes

1. **These feature with * sign require gateway's firmware to adapt to Controller v5.15.**
2. Omada Hardware Controller can only manage certain devices running the supported firmware. Please confirm that your device is compatible with the Hardware Controller.