Omada®
by tp-link

Release Notes for Omada SDN Controller V5.15.20.21

Version Info

This version of the Controller is fully applied to the Omada APP of **version 4.22** or above.

Supported Device Models

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

1. Added support for Gateways supporting dual SIM cards: DR3650v-4G v1.0, DR3220v-4G v1.0, ER706W-4G v2.0, ER706WP-4G v1.0.

2. Added support for Switches: IES210GPP v1.0, IES206GPP v1.0, IES208G v1.0, IES206G v1.0, SG5452X v1.0, SG5452XMPP v1.0.

3. Added support for Access Points: EAP668-Outdoor(EU/US) v1.0, EAP772-Outdoor(EU/US) v1.0.

4. Added support for OLT: DS-P7001-01 v1.0(firmware update required).

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 Site/Device Template in Global View > Site Template(**Beta**). With Site Template, the customer can batch manage and edit the configuration of sites bound to the template. With Device Template, customer can batch manage and edit the configuration of devices(Currently, **Switch & Gateway** only) bound to the template. Here's the guide to configure Site/Device Template: How to Configure Site Template Feature 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 to display the used and remaining data in Logout Page of Voucher and Local Users Portal.

6. Added support for 'Remember Device' in Site View > Settings > Site Settings > General Configure. After device reset and power-on, the Controller will automatically adopt the device if the controller can find it.

7. Added support to edit Profiles All and Default in Site View > Settings > LAN > Switch Profile.

8. 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 privilege of most features.

9. *Added support to Disable NAT in Site View > Settings > Transmission > NAT.

10. *Added support for LAN DNS in Site View > Settings > Wired & Wireless Network > LAN.

11. *Added support for filtering with content in Site View > Settings > Network Security > URL Filtering. This feature helps network managers to achieve efficient, secure and convenient web access control by integrating a large number of categorized URL libraries.

12. *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.

13. *Added support for ARP Detection on Gateway. When you enable this feature, the dumb terminal can be detected, including POS, printer, etc.

Enhancements

1. Optimized dependencies. Added support for built-in Java Runtime Environment in Controller, no need for the customer to install and configure Java anymore.

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 "! -> !", customer can choose data resources and destinations not in certain marked range, which allows customer 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 512 VLANs.

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 may 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. Optimized the following Controller properties:

    - Added support for maximum number of reports email sent via Cloud Access as 100.

    - Added support for maximum number of reports email sent via SMTP Server as unlimited.

19. *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.

20. *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.

Bug Fixed

1. Reduced potential security risks by forcibly redirecting HTTP requests and responses to HTTPS ones.

2. Fixed the bug that sites couldn't be paginated or searched properly after selecting a customer under the large-scale site scenario with MSP mode.

3. 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.

4. 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.

5. Fixed the bug that the token of the open API would immediately become invalid after copying a site.

6. Fixed some security issues and optimized the software's management performance for a large number of devices.

Notes

1. **These features with a * sign require gateway's firmware to be compatible with Controller v5.15**.

2. Please note that Controllers on different platforms may have some differences on features, even their first three digits of the version code are the same. For example, Linux Controller currently supports Cluster Mode but Windows Controller doesn't support it yet.

3. Omada SDN Controller can only manage certain devices running the supported firmware. Please confirm that your device is compatible with the SDN Controller.

4. Since version 5.14.32, Omada Software Controller no longer supports upgrade from Controller v4.

5. Since version 5.14.32, Omada Software Controller(windows) only supports installation on **Windows64-bit** platform.