Release Note

Edgecore EWS5204 Release v3.92.0005

Document # Edgecore_EWS5204_ERN_v3.92.0005

Enhancement from v3.60.0102

Revision History

Date	Version	Author	Remark
2024/ 2 / 21	V1.0	Vincent Cheng	Release Note for v3.92.0003

Table of Contents

1 AP Management Compatibility

1.1 Compatible Versions for AP Management

AP type	LAPM	WAPM	Compatible version
OAP100	V	V	3.45.0000 or newer
OAP100e	V	V	3.45.0000 or newer
EAP100	V	V	3.45.0000 or newer
ECW100	V	V	3.45.0000 or newer
ECW5210-L	V	V	3.45.0000 or newer
ECW5211-L	V	V	3.45.0000 or newer
ECW5410-L	V	V	3.45.0000 or newer
ECWO5210-L	V	V	3.45.0000 or newer
ECWO5211-L	V	V	3.45.0000 or newer
ECWO5213-L	V	V	3.45.0000 or newer
OAP101		V	12.4.1 or newer
OAP101e		V	12.4.1 or newer
OAP101-6E		V	12.4.1 or newer
OAP101e-6E		V	12.4.1 or newer
OAP103-BR		V	11.6.4 or newer
EAP101		V	11.2.0-795 or newer
EAP102		V	11.2.0-796 or newer
EAP102-Lite		V	11.2.0-796 or newer
EAP104		V	12.0.0 or newer
SP-W2M-AC1200		V	7.0.0-2987 or newer
3rd Party		V	

2 Feature Enhancement

2.1 Support schedule reboot

To support schedule reboot for AP in WAPM > AP List > Add To Schedule Reboot

2.2 Support retry times for WAN FAIL detection

To support retry times for WAN FAIL detection in SYSTEM > WAN

2.3 TRAP enhancement for HA feature

Add standby WAN1 port link down trap: SlaveWAN1down
If the Standby controller detects the link loss of WAN1 port, the Standby controller will share the information with the Active controller through the HA connection. The TRAP will sent out from the Active machine.

2.4 Support EAP101 Hotspot 2.0 push config by template

To support Hotspot 2.0 template for EAP101 v12.4.3(include) newer version in Template > New Generation > Hotspot 2.0 Settings

2.5 Support ECW5211-L Hotspot 2.0 push config by template

To support Hotspot 2.0 template for ECW5211-L v3.45.00013(include) newer version in Template > Legacy > Hotspot 2.0 Settings

2.6 Support band steering config on template

Support Band Steering for Legacy Template in General Settings > Band Steering Enable/Disable

2.7 CAPWAP tunnels can be setup under IPv6

To support CAPWAP tunnels create by IPv6, all managed AP must use same IPv6 or IPv4 protocol, not support some AP managed by IPv6, some AP managed by IPv4.

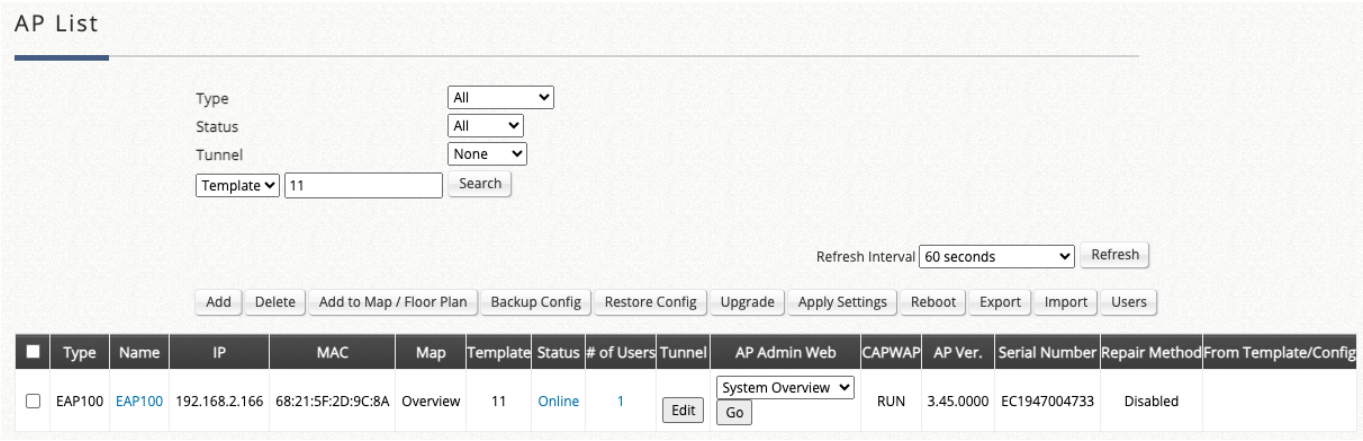
2.8 Support Port Location Mapping for IPv6 complete tunnel.

Support complete tunnel routing to LAN port with VLAN tag by PLM in Main > System > Port Location Mapping

2.9 To add Search filter in AP list for Template

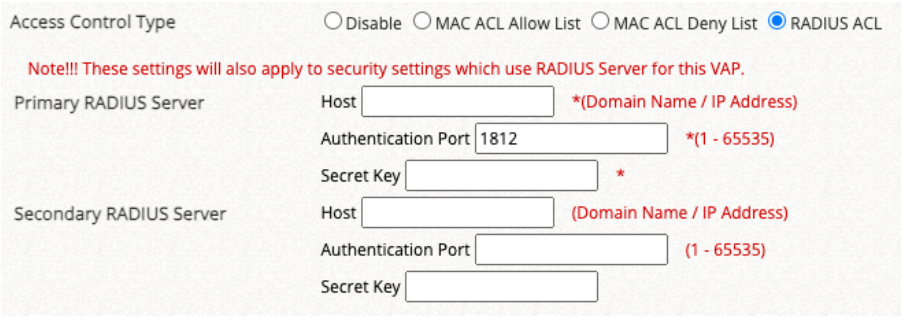
To add Search filter in AP list for Template in DEVICES > AP List page.

Users can filter template to apply all the same template AP.



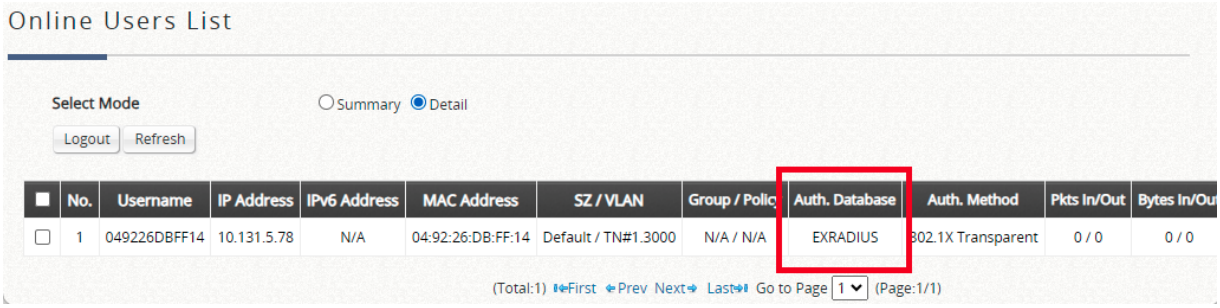
2.10 Support RADIUS MAC ACL option in WiFi5 template

To support RADIUS ACL config in DEVICES > Template > Legacy > VAP Configuration > Access Control Type page



2.11 Support client authentication by Split tun + external RADIUS server can display in Online Users

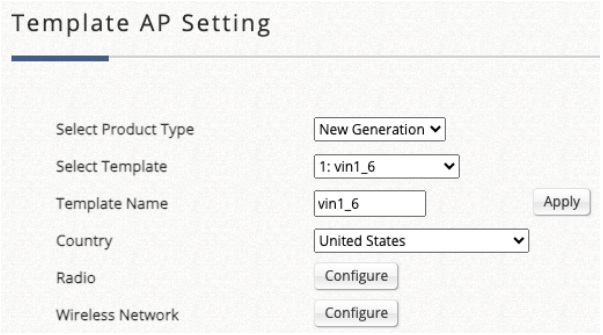
Users can get client information which is authenticated by external RADIUS server in STATUS > Online Users > Detail page.

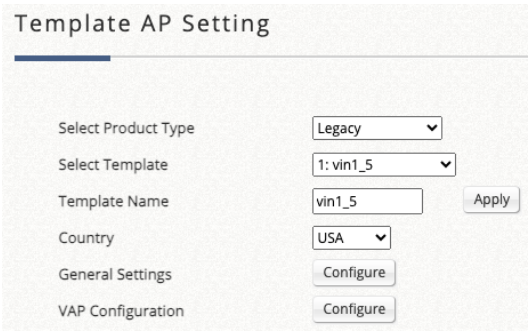


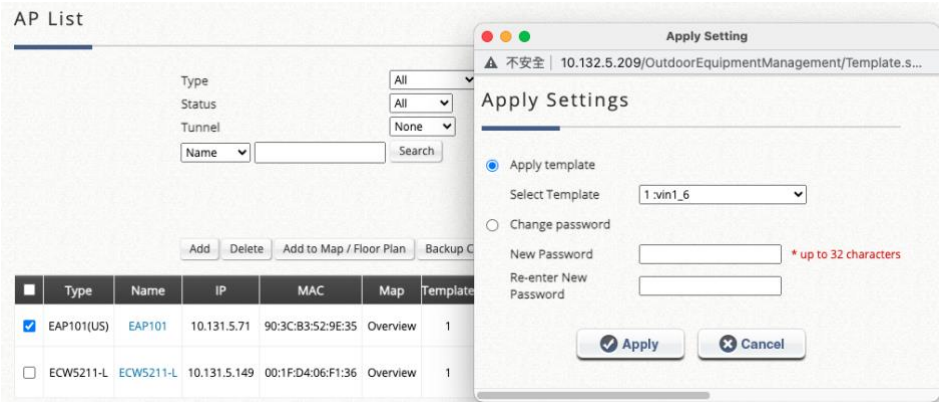
*** This feature is require AP version greater then 12.5.0 inclusive.**

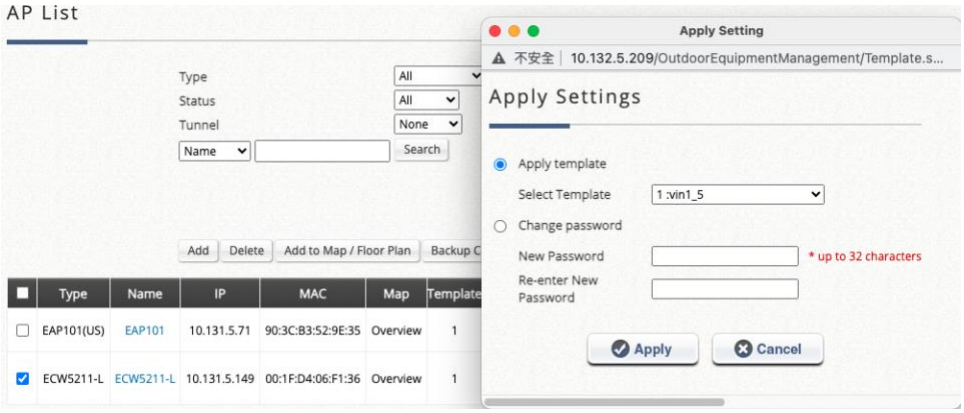
2.12 Support to specify different template names on both New Generation and Legacy

Users can set different template name for New Generation and Lagacy template setting.









2.13 TRAP enhancement for HA feature

Add following trap

HA Failover from Standby to Active: slavetoMaster

HA Standby down: slaveDown

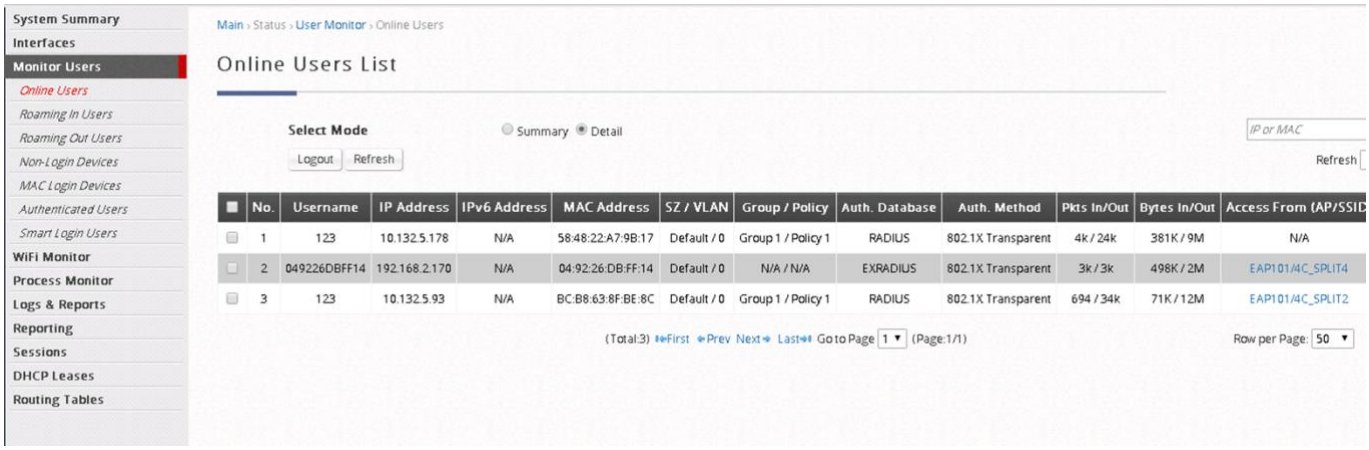
HA port down: HAPortDown

HA Alternate port down: AlternatePortDown

Internet connect failed: InternetWAN1DOWN / InternetUP

2.14 To display the associated client which is authenticate by split tunnel + external radius in Online Users List

Add **Auth. Database** in **Online Users List** > **Detail** to indicate the client authentication method.

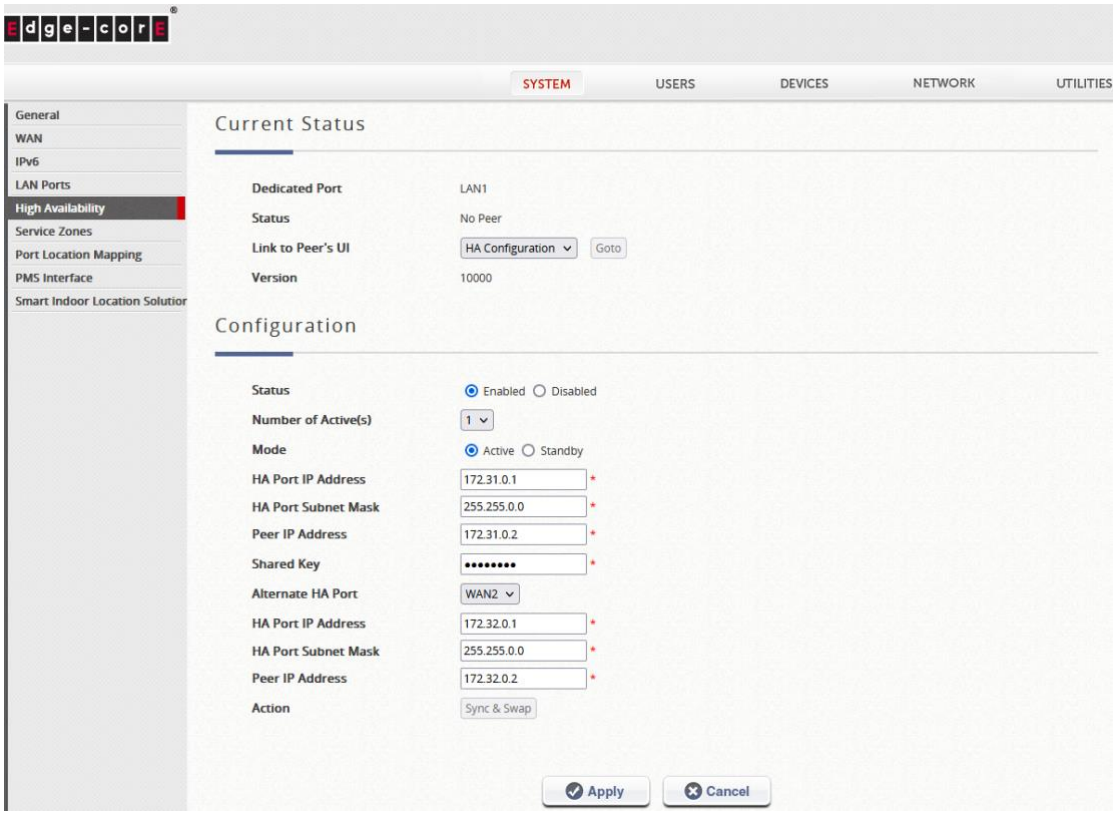


Note: This feature is requied AP version newer then 12.4.2

2.15 HA enhancement

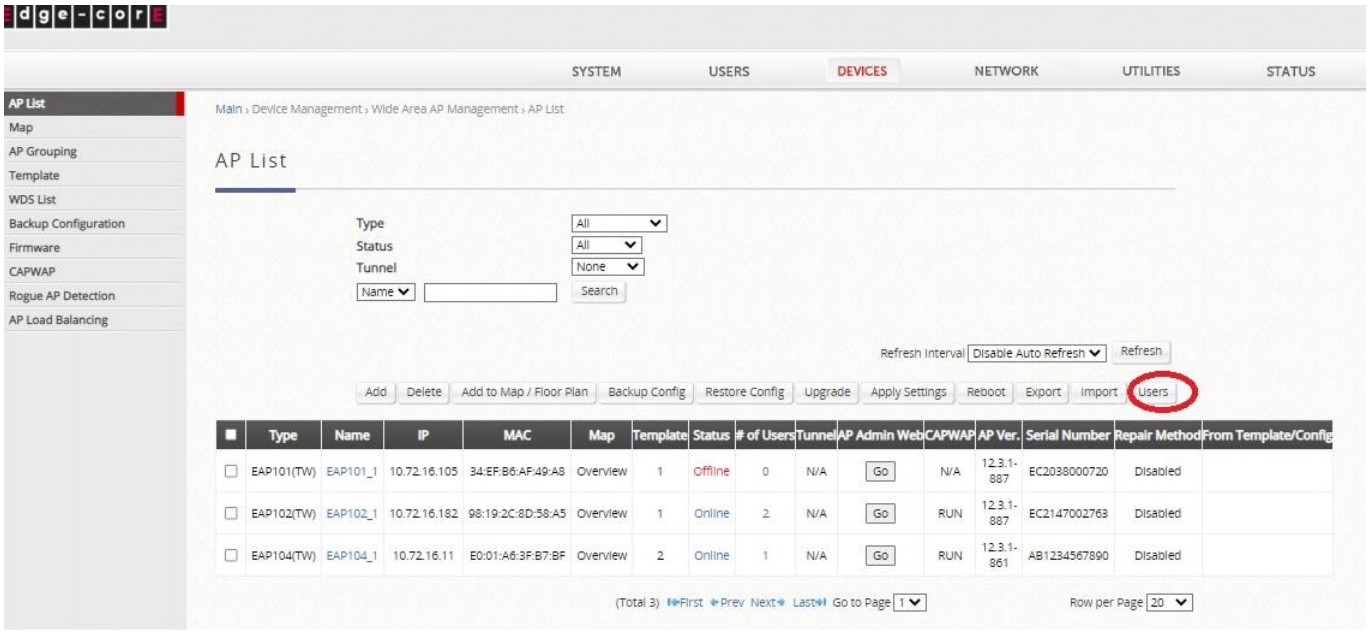
To add Alternate HA Port configuration in High Availability page.

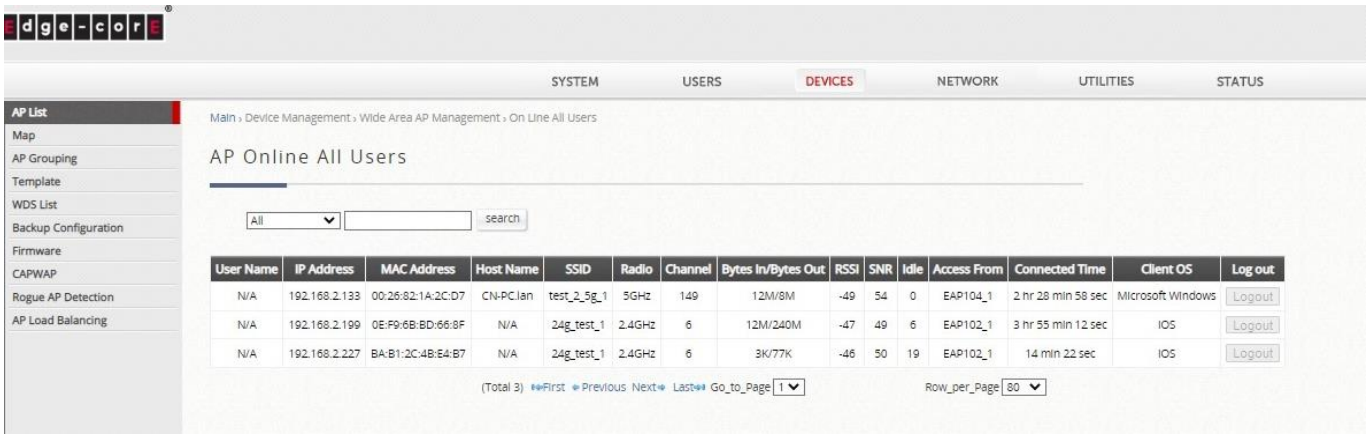
Users can set WAN2 as secondary HA detect port, if primary HA port failed will check secondary HA port, both primary and secondary HA port are failed will trigger HA swap event.



2.16 Support all client list on controller

To add a Users button in AP List, click this button to list all client information.





2.17 Support AP model name under "edgecoreAccessPointInfo" MIB

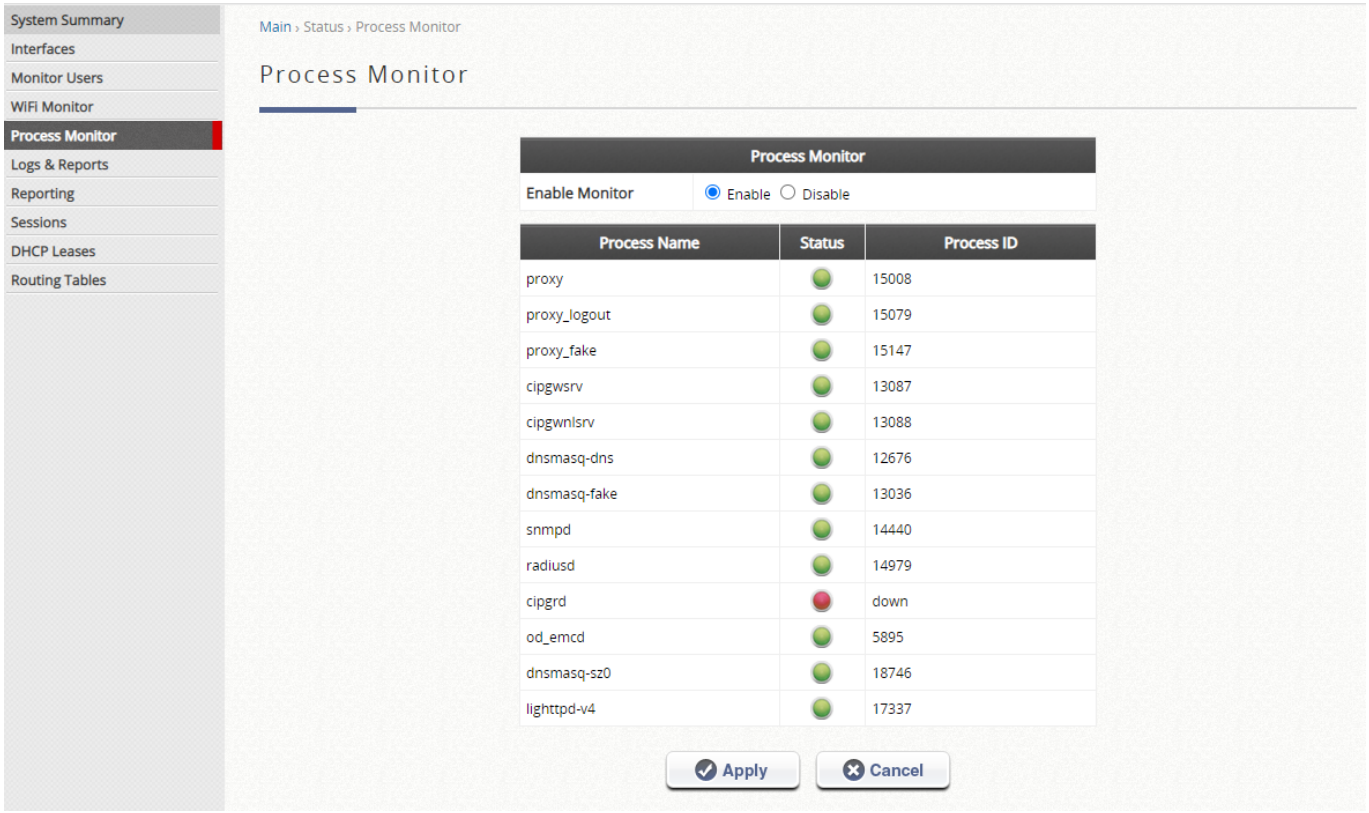
To add new OID: edgecoreAPModelName in edgecoreAPWAPMInfo.

2.18 Support "WarmStrat", "ColdStart","Linkdown", "Linkup" SNMP trap

To support WarmStart/ColdStart, port Linkdown/Linkup trap.

2.19 Enhance the WAPM Detection Method

In WAPM, a new WAPM detection method is adopted to add the WAPM process (od_emcd) to the process monitor page. Once the WAPM process crashes or becomes abnormal, the process will be restarted automatically to make sure the related service is normal.



2.20 Support Interference Detection in WAPM

In WAPM > New Generation Template > Radio Settings, the interference detection can be applied to the WiFi6 AP. When Utilization of the current channel or adjacent channel reaches the configured threshold (in %), the AP switches to a different Channel. Set this field to 0 to disable this feature. Apply the template with interference detection to the WiFi6 AP to check if the value is correct on the AP.

2.21 Support Offline Status Red Font Display in WAPM AP List

In WAPM > AP List, if the AP status is offline, it is shown in red font.

2.22 Support Sorting Algorithm for all devices in WAPM AP List

In WAPM > AP List, the sorting algorithm is supported for all devices listed on all pages when clicking the column. The APs are sorted by the column users clicked. When the refresh button is clicked, the sorting result keeps unchanged, only update the AP status.

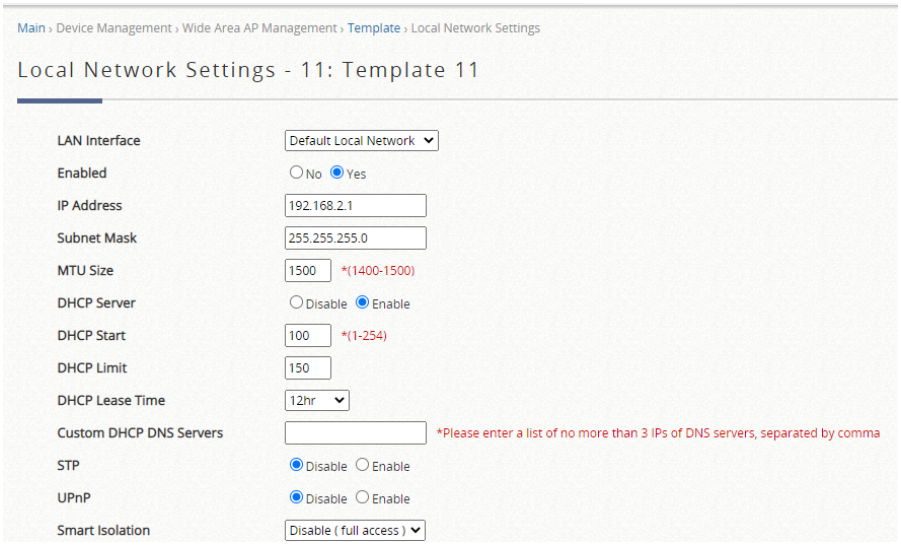
2.23 Add the Information in WAPM AP Online Users List

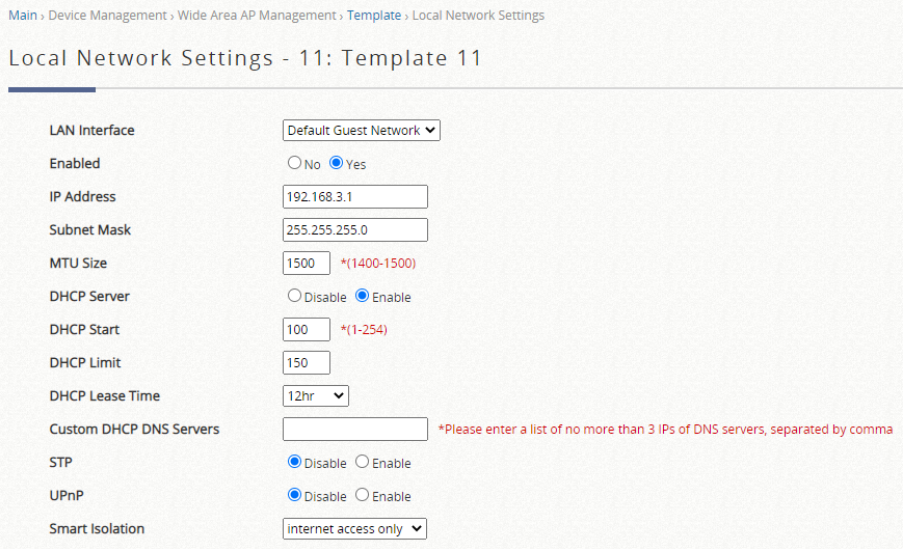
In WAPM > AP List > # of Users, the following information is supported on the page. When the clients are connected to the SSID, check whether the associated client information is correct or not.

1. Client OS: The OS of the client. It is only compatible with the latest AP version which supports Client OS.
2. Radio: The radio of the client.
3. Channel: The channel running on the radio.
4. Connected Time: The time the client is connected.
5. SSID: The SSID the client is connected to.

2.24 Support LAN Settings in New Generation Template

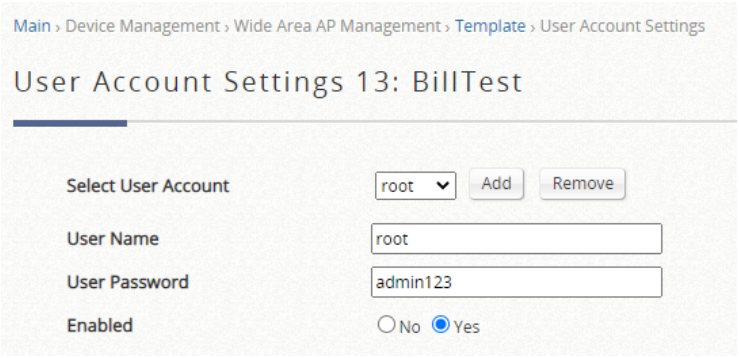
In WAPM > Template > New Generation > LAN Settings, the default local network and default guest network of LAN interface can be configured in the template. Apply the template with the default local and guest network to the WiFi6 AP to check if the configurations are correct on the AP.





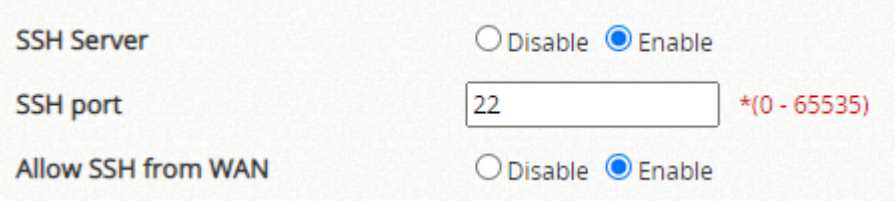
2.25 Add User Account in New Generation Template

In WAPM > Template > New Generation > User Accounts, User Account can be configured in the template. Apply the template with the user account to the WiFi6 AP to check if the configurations are correct on the AP.



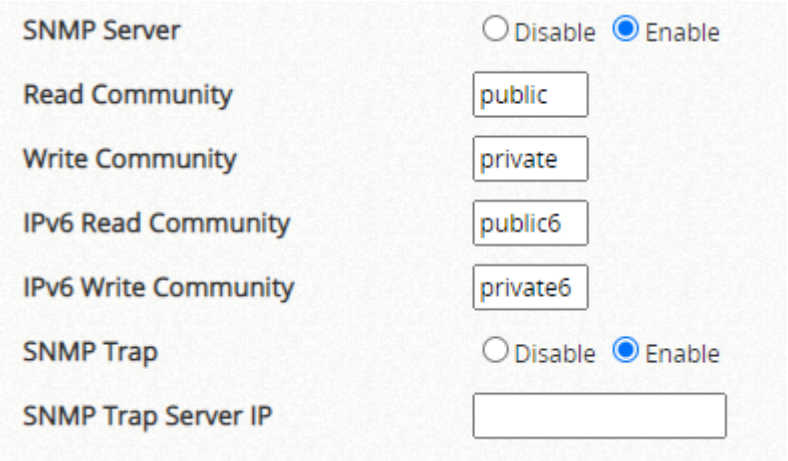
2.26 Add SSH in New Generation Template

In WAPM > Template > New Generation > Services, SSH can be configured in the template. Apply the template with SSH to the WiFi6 AP to check if the configurations are correct on the AP.



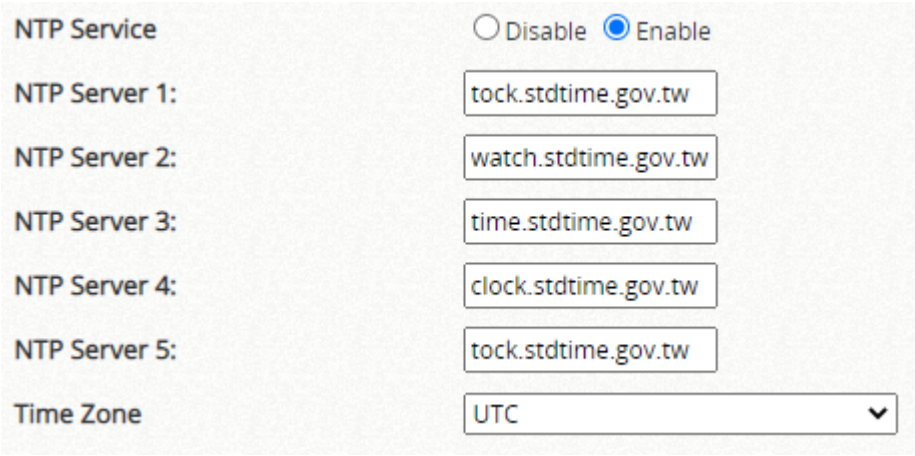
2.27 Add SNMP in New Generation Template

In WAPM > Template > New Generation > Services, SNMP related configuration can be configured in the template. Apply the template with SNMP related configurations to the WiFi6 AP to check if the configurations are correct on the AP.



2.28 Add NTP in New Generation Template

In WAPM > Template > New Generation > Services, NTP can be configured in the template. Apply the template with NTP configurations to the WiFi6 AP to check if the configurations are correct on the AP.



2.29 Add Multicast DNS in New Generation Template

In WAPM > Template > New Generation > Services, mDNS can be configured in the template. Apply the template with multicast DNS to the WiFi6 AP to check if the configuration is correct on the AP.

2.30 Support the SNMP OID of DHCP Scope Threshold

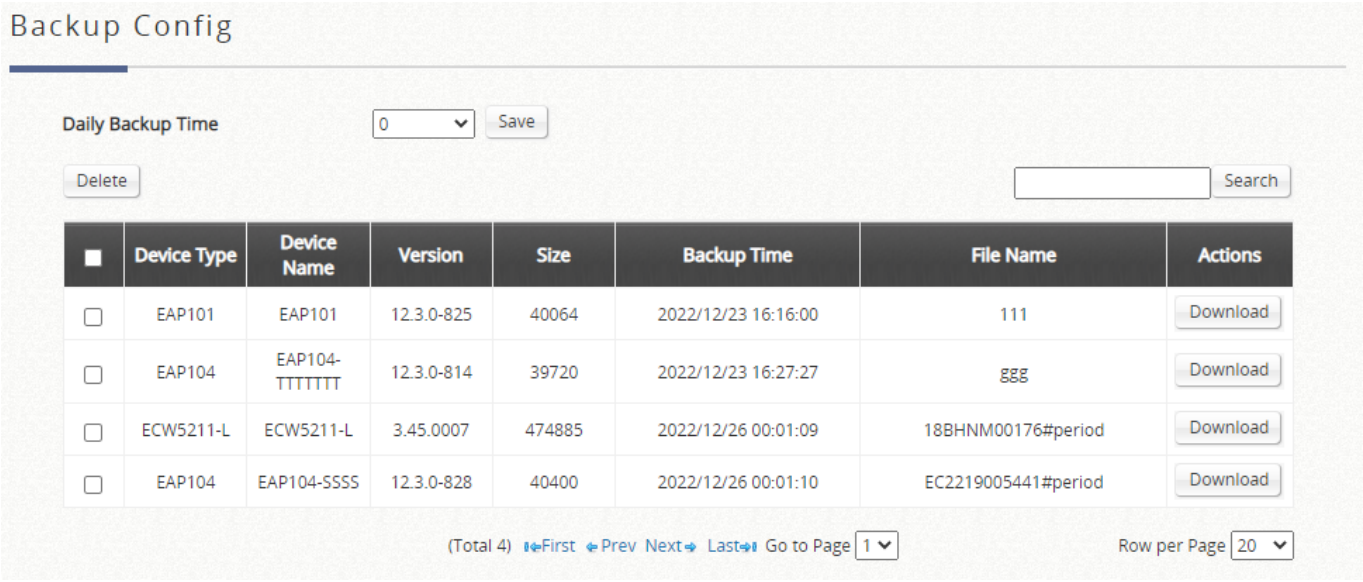
The OID of DHCP scope threshold is added in SNMP MIB files. Set and get the OID to check if the OID can work normally when the utilization of DHCP scope in the service zone is changed.

1. edgecoreDHCPScopeThreshold: The threshold of DHCP scope. If the utilization of DHCP scope exceeds the threshold, edgecoreACDHCPAddressExhaustTrap of SNMP trap will be sent. After the utilization of DHCP scope is below the threshold, edgecoreACDHCPAddressExhaustRecovTrap of SNMP trap will be sent.

2.31 The WAPM Backup Configuration Enhancement

In WAPM > Backup Configuration, the following items has been enhanced.

1. The default value of Daily Backup Time is set to Disabled.
2. The configuration of 3rd party AP will not be backed up if the daily backup time is enabled.
3. The device name is added into the backup configuration page. It shows the device name when the configuration is backed up.



2.32 Add Airtime Fairness in New Generation Template

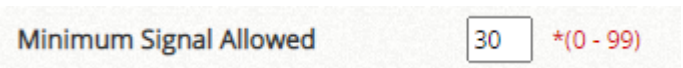
In WAPM > Template > New Generation > Radio Settings, Airtime Fairness can be configured in the template. Apply the template with airtime fairness to the WiFi6 AP to check if the configuration is correct on the AP.

2.33 Add 802.11v in New Generation Template

In WAPM > Template > New Generation > Wireless Network, 802.11v can be configured in the template. Apply the template with 802.11v to the WiFi6 AP to check if the configuration is correct on the AP.

2.34 Modify the Default Value of Minimum Signal Allowed in New Generation Template

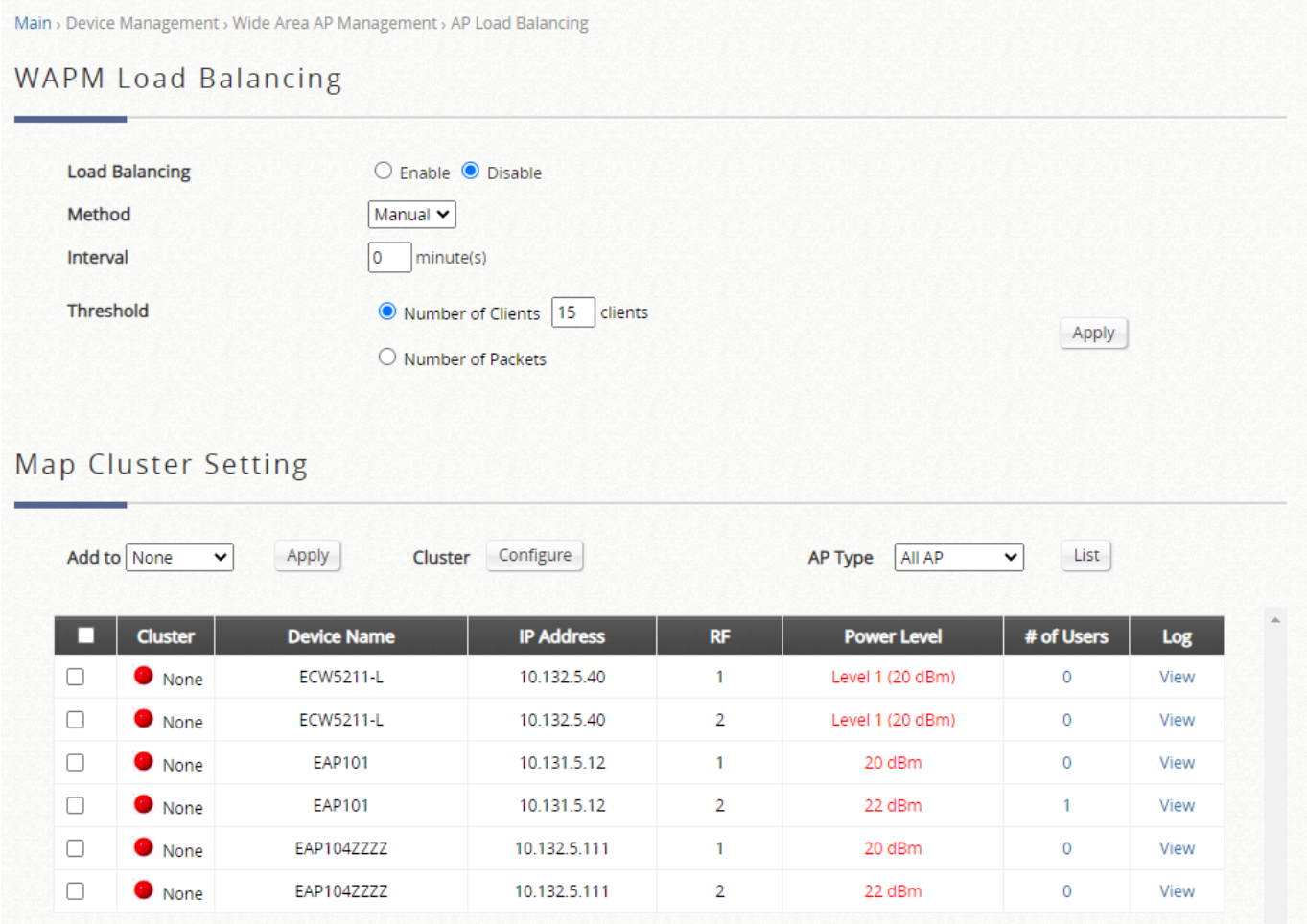
In WAPM > Template > New Generation > Radio Settings, the default value of minimum signal allowed is changed from 0 to 30. Apply the template with minimum signal allowed to the WiFi6 AP to check if the configuration is correct on the AP.



2.35 Support Local Cluster in WAPM AP Load Balancing

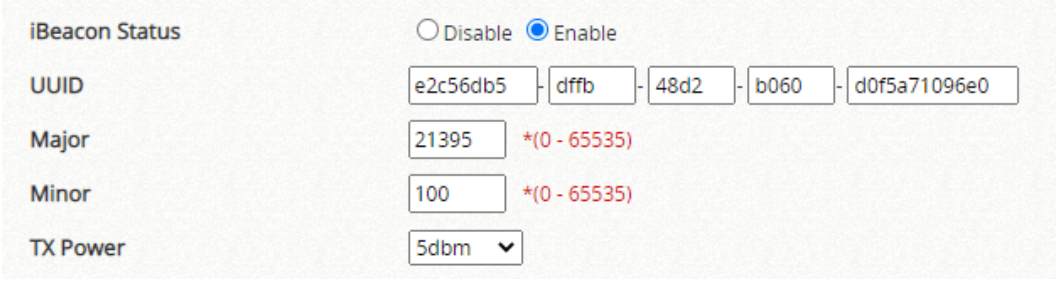
In WAPM > AP Load Balancing, the local cluster is added if the Method is selected to Manual. Keep the

original AP load balancing when the Method is selected to Auto.
If the method is manual, it uses the local cluster to determine the AP in the WAPM is in which group without using google map. The controller can also perform transmit power management to spread the network load among APs of the same group. Check the power level of APs is adjusted if the AP in the same cluster satisfy the threshold.



2.36 Support BLE TX Power in New Generation Template

In WAPM > Template > New Generation > Services, BLE TX power can be configured in the template. This configuration is only applied to supported APs. Apply the template with BLE TX power to the supported WiFi6 AP to check if the configuration is correct on the AP.

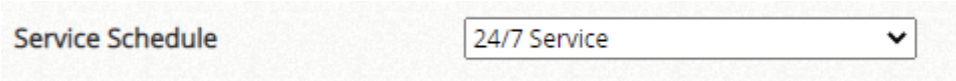


2.37 Support 160MHz in New Generation Template

In WAPM > Template > New Generation > Radio, 160MHz of channel bandwidth can be configured in the template. Apply the template with 160MHz to the supported WiFi6 AP to check if the configuration is correct on the AP.

2.38 Support Service Schedule in New Generation Template

In WAPM > Template > New Generation > Wireless Network, service schedule can be configured in the template. The service hour of the SSID can be customized. Apply the template with service schedule to the WiFi6 AP to check if the SSIDs of AP are enabled or disabled at the correct time.



2.39 Support Ethernet Setting in New Generation Template

In WAPM > Template > New Generation > Ethernet Settings, the network behavior of Ethernet port can be configured in the template. Apply the template with Ethernet configuration to the supported WiFi6 AP to check if the configurations are correct on the AP.

2.40 Add the Information in the MIB OID edgecoreAccessPointInfo

In the MIB OID edgecoreAccessPointInfo, the following information is added. Get the OID to check if the value of OID is the same as the information of WAPM AP list.

1. edgecoreAPIpAddress: List the IP address of all APs on the WAPM AP list.
2. edgecoreAPStatus: List the AP status of all APs on the WAPM AP list.

3 Issue Fixed

3.1 od_emcd get core dump log

3.2 PHP get core dump log

3.3 snnmpwalk will end prematurely

3.4 Default admin password can’t apply to EAP101 by template

3.5 EAP101 enable SNMP Trap by template issue

3.6 SNMP TRAP Server IP accepted empty in template for EAP101 issue

3.7 Compile errors with the syntax of the controller’s mib files

3.8 Time synchronization fails when EAP101's NTP server reference is set to EWS5203.

3.9 Increase the local cluster maximum number from 30 to 100.

3.10 2.4G clients show wrong channel number in AP List > AP Online Users list when 2.4G and 5G use same SSID.

3.11 WiFi Monitor can't display the result of Signal Strength and Coverage

3.12 Create Floor plan in WiFi Monitor could freeze controller UI

3.13 HA will be swap when WAN detect is from down to up

3.14 Increase the maximum number of capture lines from 1000 to 50,000 in sniff function

3.15 Change EAP101 Tunnel config from N/A to grayed out "Edit" button in AP List page.

3.16 Fix snnmpwalk will end prematurely

3.17 Update SNMP sysObjectID value to 1.3.6.1.4.1.259.10.7.2

3.18 Disable 5G will cause client can't get the IP address from 2.4G complete tunnel

3.19 snnmpwalk will end prematurely

3.20 privilege list---error message not match real operating behavior

3.21 Wrong detection of HA health check

3.22 In WAPM, the WiFi5 AP information and online users are not correct in the AP list when the WAN2 port is not connected and the WAN failover is enabled.

3.23 In WAPM > New Generation Template > Wireless Network, WMM can't display the "Disabled" option.

3.24 The upload image of Login Page Editor in Service Zones is not working when connecting the controller through the port forwarding.

3.25 The radius setting of the AP is empty if applying the New Generation template to the AP with WPA3 Enterprise 192-bit and split tunnel.

3.26 When the WAN2 and WAN failover functions are enabled, some logs are lost in syslog if WAN2 is not connected.

3.27 The syntax of edgecoreAccessAddr is not correct in the MIB file.

3.28 The result of snmp command is not correct when setting multiple SNMP server in edgecoreAccessAddr.

3.29 The value of edgecoreTrapOnOff is not correct in the unsupported SNMP trap.

3.30 The edgecoreACDHCPAddressExhaustTrap of SNMP trap is not working.

4 Known Issue

4.1 HA detect will failed, once enable WAN2 as secondary HA detect port.