




gigawave GIGA-AC-BW260 Enterprise Level Multi Function Flow Control Gateway Installation Guide

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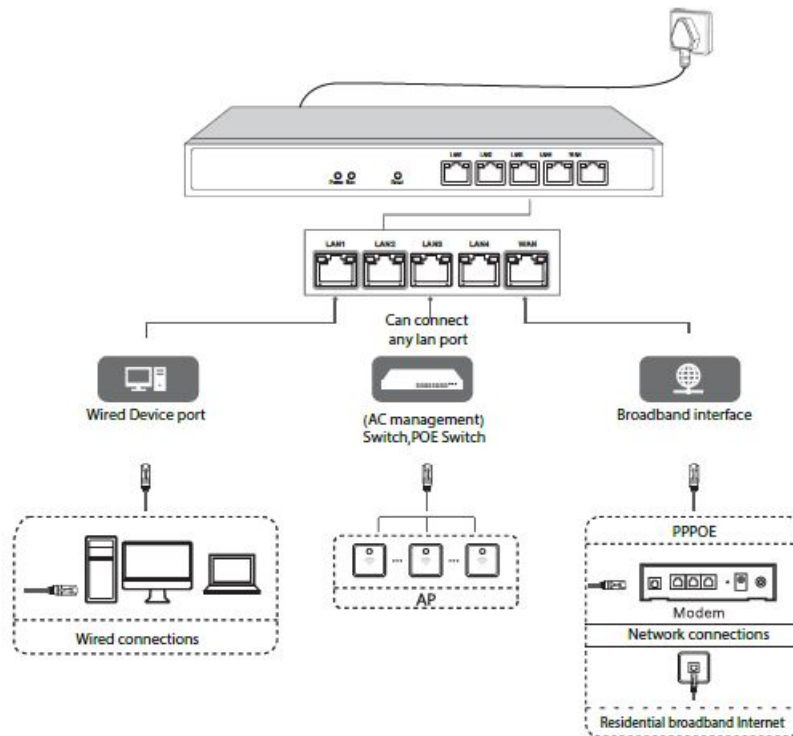
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01/Route Connection



02/Route Settings

Login Device

Connect Lan port of device to PC, login in via 172.0.1:2011 ,ID/Password: admin ,as below:

System Status	Network interface status
Device Info	
Interface Status	
LAN IP Flow	
Application Flow	
Network Configure	
Flow Control Policy	
AC Management	
Auth Internet Access	
Behavior Control	
Object Management	
Safety Protection	
Log Record	
VPN	
Device Maintenance	
Current user: admin[2.2.2]	Device time: 2019-09-28 18:28:17 System alert: The device is running normally!

Interface	Type	Link mode	IP address	MAC address	Receive speed	Send speed
WAN1	WAN port Online	1000M/Full duplex	192.17.0.101	44-D1-FA-45-53-F9	0.40 KB/S	0.39 KB/S
LAN4	LAN port	Disconnect		Merged into LAN1		
LAN3	LAN port	Disconnect		Merged into LAN1		
LAN2	LAN port	Disconnect		Merged into LAN1		
LAN1	LAN port	1000M/Full duplex	172.16.0.1	44-D1-FA-45-53-F5	0.04 KB/S	0.04 KB/S

Device basic information	
Device ID: Y21190001054, Max Users: 80, Max AP can be managed: 64	
Uptime: 1:14:10 up 5 days	
Memory utilization: 35%	65.07MB/244.94MB
CPU utilization: 0%	
Connection monitoring: 0%	116/50000
Online users: 2 users	

Port	IP Address	Mask
LAN1	172.16.0.1:2011	255.255.0.0
LAN2	172.17.0.1:2011	255.255.0.0
LAN3	172.18.0.1:2011	255.255.0.0
LAN4	172.19.0.1:2011	255.255.0.0

Note:

Please check the IP address of default port above .

WAN port settings

(Network configuration) (Interface Configuration) “External network configuration”, select the network port to configure, and configure the information of the external network, as shown in the following image:



Internet access: (choose how to access the Internet according to the actual situation)

ADSL/PPPOE:

Fill in bandwidth account numbers and passwords (this type of Internet access is recommended) Fixed IP: Fill in IP, mask, gateway and DNS provided by the operator

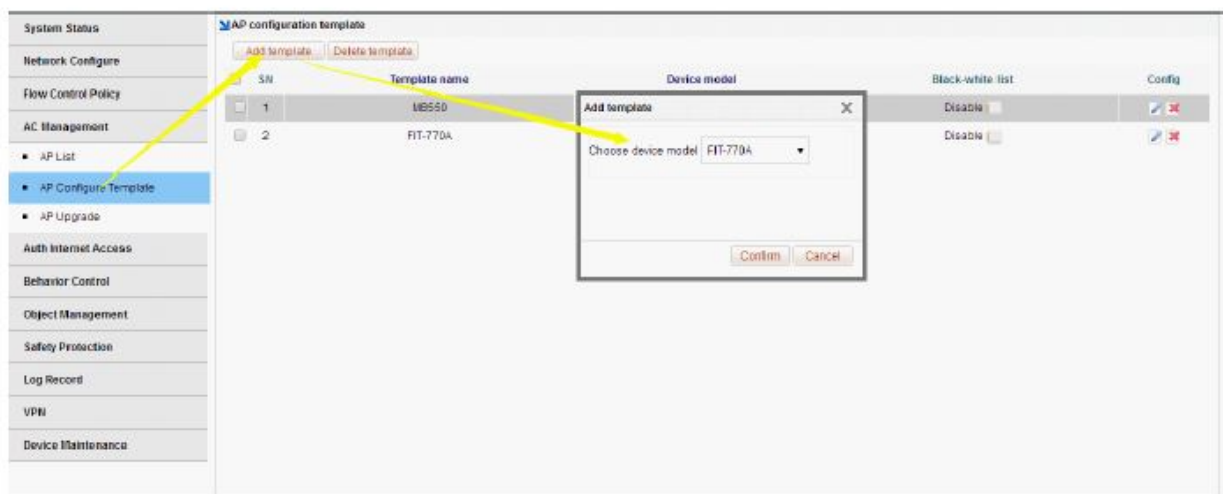
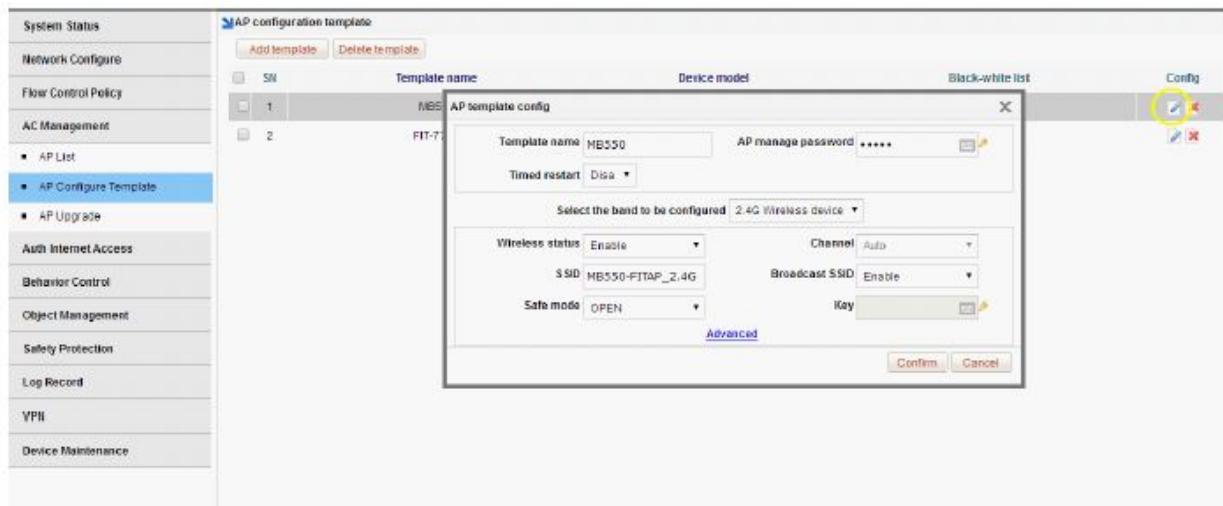
DHCP:

Direct access to lines provided by the operator to obtain IP
Line interruption check: detect whether the line is connected to the network, if the line is not accessible or the linequality is poor, the packet is serious, the route is automatically processed, does not load to the Line.It is recommended to enable line interrupt detection.Bandwidth configuration: configure the bandwidth of the line, such as the dial-up fiber of the upstream 4M downlink 100M, can be configured with behavior 500KB, downside 10000KB.Configure the line Bandwidth is important, and intelligent streaming is automatically streamed based on the bandwidth that is matched. (The”Enable Smart Streaming” option needs to be checked to configure bandwidth values for effective)

Physical port division

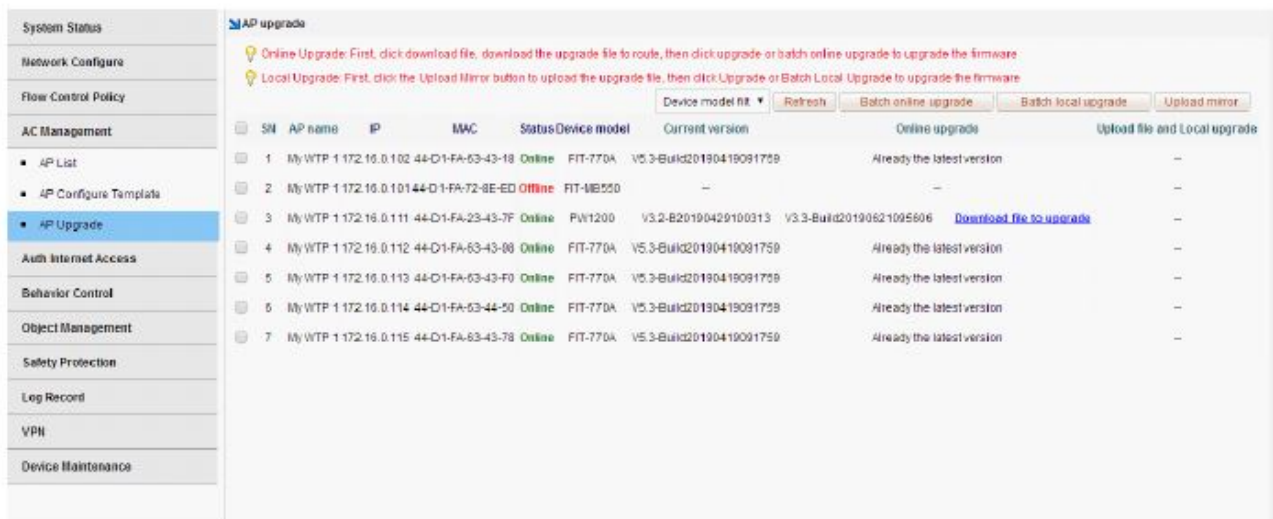
This feature supports separate and merge port divisions.When the main road is recommended to use the merge port division, that is, open All LAN ports are one LAN1 port function. If it is bypass mode, it is recommended to turn this feature off.Select the corresponding according to the actual situation Physical port division type, check “Merge all LAN ports as one intranet port (LAN1).”

Note: After the definition of the physical port feature is modified, the route needs to be reconfigured. (Note: The version of the X86 platform does not support Ethernet port merge).



AP Upgrade Management

AP Upgrade Management allows you to upload the AP version that needs to be upgraded to the device, and then select the AP list in full or selected to upgrade, while also supporting the AP remote upgrade.



05/Configure shunt rules

Configuring shunt rules

A single line can not configure a shunt rule; (Network configuration) Multi-line shunt rule, point Hit Add creates a policy shunt rule, selects the shunt mode, selects which apps the line hosts, and click OK after checking.



Note:

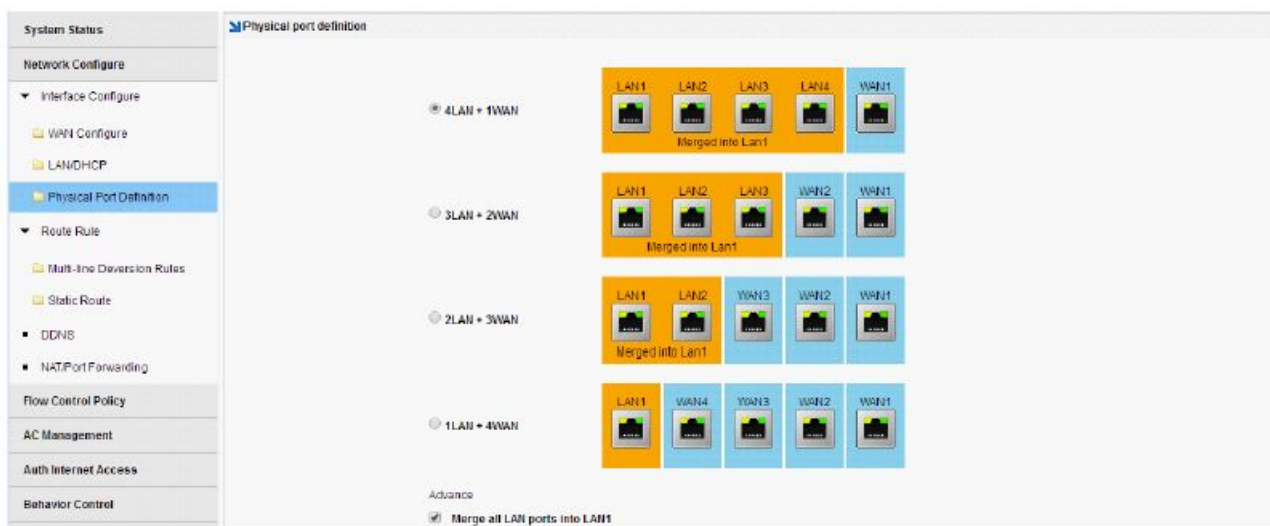
Multi-line load balancing is achieved by shunt rules.

Configure bandwidth speed limit policy

Description: Routing has intelligent flow control function, configuration speed limit strategy, the purpose is to prevent the endonet machine poisoning, or advertising uncontrolled Upload, usually the speed limit up to 100-300KB, the downlink speed limit can be properly liberalized, such as the speed limit of 1000-3000, usually recommended The speed limit does not exceed one-third of the total bandwidth.



For example: a 50M peer fiber, then each machine speed limit up 100-300KB, down1000-3000 KB can be, advanced recommendation configuration P2P The limit allows 70% of the allowed for the upstream and 70% allowed for the downstream. As shown above (ANY means arbitrary, that is, anyone, any time)



03/AC Management

AP Device List

The AC controller feature allows centralized management and release configuration of the AP devices connected to it, with parameters including Line channels, SSIDs, transmit power, encryption modes and keys, AP coverage thresholds, number of access users, and VIAunID, as follows As shown in the figure:

System Status

Network Configure

Flow Control Policy

AC Management

Auth Internet Access

Behavior Control

Object Management

Safety Protection

Log Record

VPN

Device Maintenance

AP list

Online AP quantity/ Total AP: 6 / 7, AC service status: online

Restart AP

Reset AP

Delete AP

Apply configuration template

Refresh

All device

device model filter

Search conditions: Device IP

search

SN	AP name	Device IP	MAC address	SSID(2.4G/5.8G)	User Status	Channel(2.4G/5.8G)	Channel Analysis	Power	AP model	AP version	Uptime	Black white list	remarks	Config
1	My WTP 1	172.16.0.102	44-D1-FA-63-43-18	770A_2.4G 770A_5.8G	0 online	10 36	2.4G 5.8G	100%	FIT-770A	V5.3-Build20190419091759	0 45:25 up 5 days	Disable		Config
2	My WTP 1	172.16.0.101	44-D1-FA-72-8E-ED	MB550-FITAP_2.4G	0 offline	8	2.4G	100%	FIT-MB550	V5.3-Build20190408190556		Disable	admin	
3	My WTP 1	172.16.0.111	44-D1-FA-23-43-7F	Wireless_2.4G Wireless_5.8G	1 online	Auto[3] Auto[44]	2.4G 5.8G	100%	PW1200	V3.2-B20190428190313	23:40:29 up 4 days	Disable		Config
4	My WTP 1	172.16.0.112	44-D1-FA-63-43-88	Wireless_2.4G Wireless_5.8G	0 online	Auto[11] Auto[54]	2.4G 5.8G	100%	FIT-770A	V5.3-Build20190419091759	23:40:5 up 4 days	Disable		Config
5	My WTP 1	172.16.0.113	44-D1-FA-63-43-F0	Wireless_2.4G Wireless_5.8G	0 online	Auto[6] Auto[149]	2.4G 5.8G	100%	FIT-770A	V5.3-Build20190419091759	23:40:3 up 4 days	Disable		Config

Note:

The default configuration issued by AP is achieved by establishing the template, with one template for each model.Only in the AC list should The template of the corresponding model will be released normally. Note: An AP model can also create multiple templates.Apply to the same floor or geography of the same model A scene with a different location.

AP Device Configuration

AP device configuration, is a single AP or multiple APs in the list of parameter modifications, including the wireless state on or off, The modification of the channel, the modification of the wireless bandwidth mode, the modification of the AP coverage threshold, the modification of the transmit power, and the marking of the device location.

04/Authentications

Enable authentication to the Internet

Enable authentication Online, means that only WeChat authentication, PPPOE dial-up authentication, WEB password authentication, IP authentication, MAC authentication.Users can only access the Internet, for example, allow the user PPPOE dial-up Internet access under LAN1, scertified Internet access , “Certification switch”, select LAN1, enable the authentication network switch, check the type of “PPPOE dial” that allows Internet access, click Save.

System Status

Network Configure

Flow Control Policy

AC Management

Auth Internet Access

Behavior Control

Object Management

Auth switch

Free auth IP

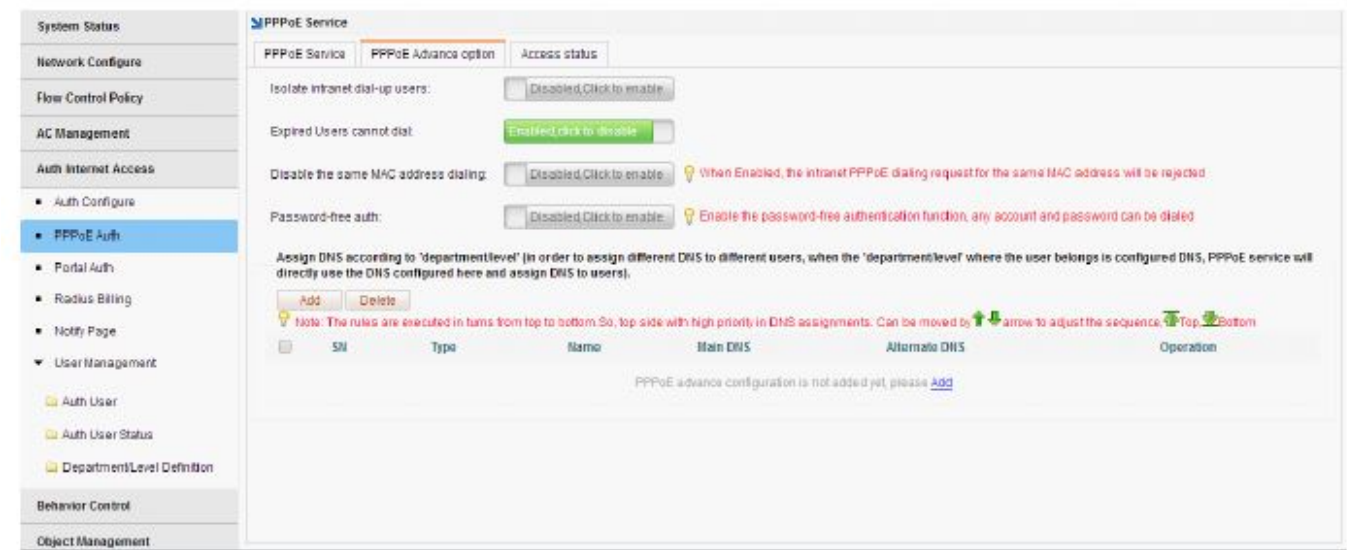
One key auth config: Enable all Disable all

Notes: PPPOE authentication switch needs to be used in conjunction with PPPOE authentication, that is, if an interface opens the PPPOE authentication switch, the PPPOE authentication of this interface must be configured; Portal authentication switch also needs to be used in conjunction with Portal authentication.

Interface name	PPPoE auth switch	Portal auth switch	IP auth switch	MAC auth switch
LAN1	Disable	Disable	Disable	Disable

PPPOE Authentications

Users who use PPPOE dial-up Internet access need to enable PPPOE services at the intranet, such as PPPOE services on LAN1. (Certified Internet Access) (PPPOE Certification) (PPPOE Advanced Options) and select the app.



06/Safety

End-network anomaly detection

Turn on DHCP detection to detect the presence of other DHCP servers in the intranet; Turn on Loop Detection to check the contentford for loops (for intranet fault positioning).

Documents / Resources

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GIGA-AC-BW260, GIGA-AC-BW260 Enterprise Level Multi Function Flow Control Gateway, Ent erprise Level Multi Function Flow Control Gateway, Multi Function Flow Control Gateway, Flow Control Gateway, Gateway, AC-BW260