<u>Q: How to configure Universal Repeater mode by using 5GHz Wi-Fi to let the connected clients included</u> wired or wireless surfing internet through the WMC303-1W-1T-1200?

Topology:



- The DHCP server of the WMC303-1W-1T-1200 is disabled by default, so, before configuration, please ensure the 5GHz root AP is already connected to the internet and the DHCP server is enabled to let it able to assign IP address for the connected clients.
- Please ensure no IP conflict in the existed network. Otherwise, please re-configure the WMC303-1W-1T-1200 using other IP address which should be in the same network segment. The default IP address of the WMC303-1W-1T-1200 is 192.168.0.100

Step 1. In the WMC303-1W-1T-1200, go to "WLAN1 (5GHz) → Basic Settings" to configure wireless mode to "AP" and then check "Enable Universal Repeater Mode (Acting as AP and client simultaneously)". Click "Apply Changes" to take effect.

Disable Wire	eless LAN Interface	
Band:	5 GHz (A+N+AC) 🗸	
Mode:	AP V MultipleAP	
Network Type:	Infrastructure 🗸	
SSID:	AP 5G	Add to Profile
Enable Mac	Clone (Single Ethernet Client)	
Enable Univ simultaneouly)	ersal Repeater Mode (Acting as AP and client	
SSID of Extended		Add to Profile
Interface: Rpt0		
Apply Chang	ges Reset	

Wireless Basic Settings - WLAN1 (5 GHz)

Step 2. Go to 5GHz Site Survey (WLAN1 (5GHz) → Site Survey) page to find the root AP. Select the root AP that you want to repeat the signal and then click "Next".

Wireless Site Survey - WLAN1 (5GHz)

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

Wireless Router	Recommend		>70%	(((Ra	nge Extender
SSID	BSSID	Channel	Туре	Encrypt Signal	Select	
Default_5G_1	09:F6:3F:00:1d	157 (A+N)	AP	WPA2- PSK 30	$\overline{\mathbf{O}}$	
-						1

Next>>

Step 3. Select the correct encryption method and enter the security key. Then, click "Connect".

Wireless Site Survey	y - WLAN1 (5GHz)
This page provides tool to scan the manually when client mode is enable	wireless network. If any Access Point or IBSS is found, you could choose to connect it ed.
Wireless Router	>70% ((() Image Extender Image Extender Range Extender
Encryption: WPA2 🗸	
Authentication Mode:	C Enterprise (RADIUS) 💿 Personal (Pre-Shared Key)
WPA2 Cipher Suite:	TKIP AES
Pre-Shared Key Format:	Passphrase 🐱
Pre-Shared Key:	•••••
< <back connect<="" td=""><td></td></back>	

Connect successfully!			
Add to Wireless	Profile		
Reboot Now	Reboot Later		

Step 5. Go to "Management-> Status" page to check whether the state of Repeater interface should be "Connected".

Wireless 1 Repeater Interface Configuration			
Mode	Infrastructure Client		
SSID	Default_5G_1		
Encryption	WPA2		
BSSID	09:F6:3F:00:1d		
State	Connected		

Step 6. In the laptop or PC connected to the WMC303-1W-1T-1200 by Ethernet cable, go to TCP/IP settings to modify it to "Obtain an IP address automatically".

etworking	General Alternate Configuration	
Connect using:		utomatically if your network supports
Intel(R) PRO/1000 MT Desktop Adapter	this capability. Otherwise, you nee for the appropriate IP settings.	d to ask your network administrator
Configure	Obtain an IP address automa	tically
This connection uses the following items:	- Use the following IP address:	
 ✓ Usent for Microsoft Networks ✓ ■ AVG network filter driver 	IP address:	
☑ □ AvG network filter anver ☑ □ □ QoS Packet Scheduler	Subnet mask:	· · · ·
File and Printer Sharing for Microsoft Networks Anternet Protocol Version 6 (TCP/IPv6)	Default gateway:	
Internet Protocol Version 4 (TCP/IPv4)	Obtain DNS server address at	utomatically
	O Use the following DNS server	addresses:
Install Uninstall Properties	Preferred DNS server:	
Description	Alternate DNS server:	
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit	Advanced
		Auvanceu

Step 7. Use the command line tool to ping the DNS (e.g. Google) to ensure the laptop or PC can access internet through the connection.

C:\W	/indow:	s\system32\cr	nd.exe - ping	8.8.8.8 -t	
Reply	from	8.8.8.8:	bytes=32	time=37ms	TTL=53
Reply	from	8.8.8.8:	bytes=32	time=38ms	TTL=53
Reply	from	8.8.8.8:	bytes=32	time=36ms	TTL=53
eply	from	8.8.8.8:	bytes=32	time=36ms	TTL=53
eply	from	8.8.8.8:	bytes=32	time=38ms	TTL=53
eply	from	8.8.8.8:	bytes=32	time=37ms	TTL=53
eply	from	8.8.8.8:	bytes=32	time=37ms	TTL=53
eply	from	8.8.8.8:	bytes=32	time=36ms	TTL=53
eply	from	8.8.8.8:	bytes=32	time=38ms	TTL=53
eply	from	8.8.8.8:	bytes=32	time=38ms	TTL=53
eply	from	8.8.8.8:	bytes=32	time=37ms	TTL=53
				time=36ms	
eply	from	8.8.8.8:	bytes=32	time=37ms	TTL=53
leply	from	8.8.8.8:	bytes=32	time=38ms	TTL=53
eply	from	8.8.8.8:	bytes=32	time=38ms	TTL=53
leply	from	8.8.8.8:	bytes=32	time=38ms	TTL=53
leply	from	8.8.8.8:	bytes=32	time=37ms	TTL=53
				time=36ms	
leply	from	8.8.8.8:	bytes=32	time=37ms	TTL=53
				time=36ms	
				time=38ms	
				time=35ms	
				time=37ms	
leply	from	8.8.8.8:	bytes=32	time=37ms	TTL=53

Step 8. In the Android Smart Phone, tap the [Settings] icon displayed in the home screen.



Step 9. Check Wi-Fi setting to view the available wireless network or tap the lower-right corner to re-scan the available wireless network.



Step 10. Tap the target wireless network (SSID). If you would like to connect to the WMC303-1W-1T-1200 using 5GHz frequency band, please select the SSID [AP 5G], in this case, we selected the SSID [AP 2.4G].



Step 11. Enter the encryption key, and then tap [Connect].



Step 12. Check if the device is connected to the selected wireless network.



Step 13. Now, you should be able to surf internet by the laptop through the WMC303-1W-1T-1200.



For the wireless connection setup in other platforms (e.g. iPhone, iPad, laptop), please refer to the Chapter 6. Quick Connection to a Wireless Network in the User's Manual of the