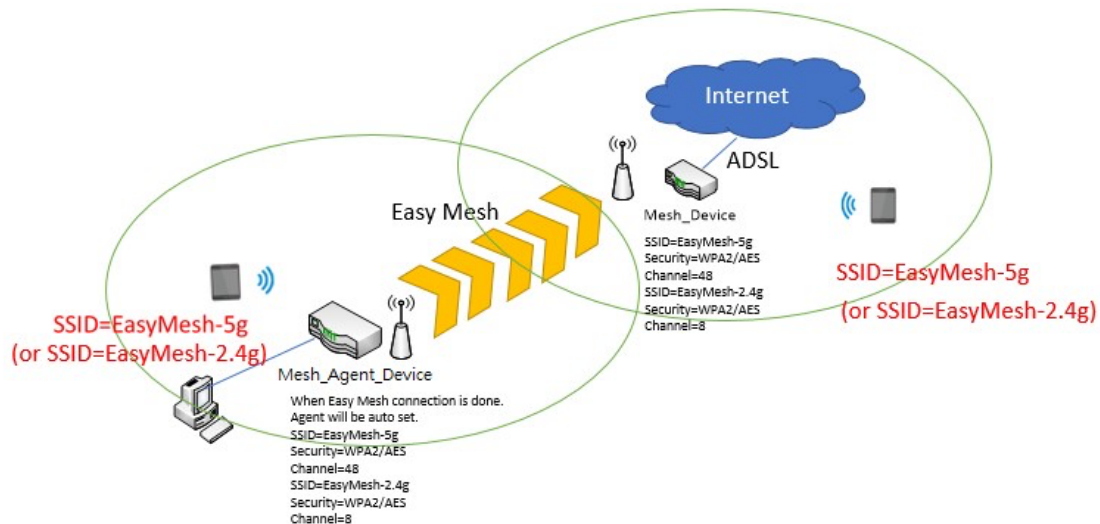


Easy Mesh Application

Network topology:



Mesh_Device= TW-EAV510 WiFi 6ax, Router's IP=192.168.11.254, DHCP server
=192.168.11.100~150.

SSID=EasyMesh-5g
Security=WPA2/AES
Channel=48
SSID=EasyMesh-2.4g
Security=WPA2/AES
Channel=8

Mesh_Agent_Device=3200AC , Router's IP=192.168.1.254. On
WiFi setting, it will be auto setup after EasyMesh connection up.

Setting:

1. At **TW-EAV510 WiFi 6ax**, please first set 5g WiFi SSID, security, channel and then set 2.4g WiFi SSID, security and channel.

(Note: As EasyMesh controller, both 5g/2.4g all need to be set to WPA2/AES and fixed channel.)

>WLAN>5GHz Wifi>Basic Settings

Set SSID=EasyMesh-5g

Channel Number=48

WLAN Basic Settings

This page is used to configure the parameters for WLAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

Disable WLAN Interface	<input type="checkbox"/>
Band	5 GHz (A+N+AC+AX) ▼
Mode	AP ▼ Multiple AP
SSID	EasyMesh-5g
Channel Width	80MHz ▼
Control Sideband	Auto ▼
Channel Number	48 ▼
Radio Power (%)	100% ▼

>WLAN>5GHz Wifi>Security

Set Encryption to WPA2 (EasyMesh currently only supports WPA2 as its encryption type)

Pre-Shared Key=1234567890

WLAN Security Settings

This page allows you setup the WLAN security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

SSID	Root AP - EasyMesh-5g ▼
Encryption	WPA2 ▼
Authentication Mode	<input type="radio"/> Enterprise (RADIUS) <input checked="" type="radio"/> Personal (Pre-Shared Key)
IEEE 802.11w	<input type="radio"/> None <input checked="" type="radio"/> Capable <input type="radio"/> Required
SHA256	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
WPA2 Cipher Suite	<input type="checkbox"/> TKIP <input checked="" type="checkbox"/> AES
Group Key Update Timer	3600
Pre-Shared Key Format	Passphrase ▼
Pre-Shared Key <input type="checkbox"/> Show Password

>WLAN>2.4GHz Wifi>Basic Settings

Set SSID=EasyMesh-2.4g

Channel Number=8

WLAN Basic Settings

This page is used to configure the parameters for WLAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

Disable WLAN Interface	<input type="checkbox"/>
Band	2.4 GHz (B+G+N) ▼
Mode	AP ▼ Multiple AP
SSID	EasyMesh-2.4g
Channel Width	40MHz ▼
Control Sideband	Upper ▼
Channel Number	8 ▼
Radio Power (%)	100% ▼

>WLAN>2.4GHz Wifi>Security

Set Encryption to WPA2 (EasyMesh currently only supports WPA2 as its encryption type)

Pre-Shared Key=1234567890

WLAN Security Settings

This page allows you setup the WLAN security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

SSID	Root AP - EasyMesh-2.4g ▼
Encryption	WPA2 ▼
Authentication Mode	<input type="radio"/> Enterprise (RADIUS) <input checked="" type="radio"/> Personal (Pre-Shared Key)
IEEE 802.11w	<input type="radio"/> None <input checked="" type="radio"/> Capable <input type="radio"/> Required
SHA256	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
WPA2 Cipher Suite	<input type="checkbox"/> TKIP <input checked="" type="checkbox"/> AES
Group Key Update Timer	3600
Pre-Shared Key Format	Passphrase ▼
Pre-Shared Key <input type="checkbox"/> Show Password

>WLAN>Easy Mesh>EasyMesh Interface Setup

Input Device Name to Mesh_Device, Role to Controller and then press “Apply Changes” button.

EasyMesh Interface Setup

This page is used to configure the parameters for EasyMesh feature of your Access Point.

Device Name	Mesh_Device
Role	<input checked="" type="radio"/> Controller <input type="radio"/> Disabled
Backhaul AP	<input type="checkbox"/> <input checked="" type="radio"/> 5G <input type="radio"/> 2.4G
WPS Trigger	<input type="checkbox"/> <input type="checkbox"/> Start PBC

Apply Changes

>WLAN>Easy Mesh>Topology

Check Mesh_Device is on Network Topology as below:

EasyMesh Network Topology

This page displays the topology of EasyMesh network

Network Topology

- Mesh_Device | 00e04cf203a6 | 192.168.11.254 | [Show Details](#)

[Refresh](#)

2. At **3200AC**, Network>EasyMesh

Set Device Name to Mesh_Agent_Device, Role to Agent and Backhaul STA: wlan1(5G) and then press “Save&Apply” button.

EasyMesh General Settings

This page is used to configure the parameters for EasyMesh feature of your Access Point.

Device Name	<input type="text" value="Mesh_Agent_Device"/>
Role	<input type="radio"/> Controller <input checked="" type="radio"/> Agent <input type="radio"/> Disabled
Backhaul STA	<input checked="" type="radio"/> wlan1(5G) <input type="radio"/> wlan2(2.4G)
wps_trigger	<input type="button" value="Start PBC"/>
<input type="button" value="Save"/> <input checked="" type="button" value="Save & Apply"/> <input type="button" value="Reset"/>	

3. Both **TW-EAV510 WiFi 6ax** & **3200AC** setting is done. Then press PBC button to get EasyMesh connection.

On **TW-EAV510 WiFi 6ax**,

>WLAN>Easy Mesh>EasyMesh Interface Setup, press “Start PBC” button on WPS Trigger.

(Note: Please must trigger EasyMesh Agent connection in 270s.)

EasyMesh Interface Setup

This page is used to configure the parameters for EasyMesh feature of your Access Point.

Device Name	<input type="text" value="Mesh_Device"/>
Role	<input checked="" type="radio"/> Controller <input type="radio"/> Disabled
Backhaul AP	<input type="checkbox"/> <input checked="" type="radio"/> 5G <input type="radio"/> 2.4G
WPS Trigger	<input type="button" value="Start PBC"/>
<input type="button" value="Apply Changes"/>	

On **3200AC**,

Network>EasyMesh.

Press “Start PBC” button on WPS Trigger.

EasyMesh General Settings

This page is used to configure the parameters for EasyMesh feature of your Access Point.

Device Name

Role ☐ Controller ☒ Agent ☐ Disabled

Backhaul STA ☒ wlan1(5G) ☐ wlan2(2.4G)

wps_trigger

4. After 2 mins later, check **TW-EAV510 WiFi 6ax**.

>WLAN>Easy Mesh>Topology

192.168.11.101 will show in Topology. It also means that EasyMesh connection is up and customer can see MAC address of Mesh_Agent in Neighbor RSSI of Mesh_Device as below:

EasyMesh Network Topology

This page displays the topology of EasyMesh network

Network Topology

- Mesh_Device | 00e04cf203a6 | 192.168.11.254 |
- Mesh_Agent | 0004ed32ac10 | 192.168.11.101 |

EasyMesh Device Details Table

This table shows the details of individual EasyMesh device in the network, child neighbor list and associated station list.

Neighbor RSSI (excluding parent AP)

MAC Address	Name	RSSI	Connected Band
0004ed32ac10	Mesh_Agent	92	5G

Station Info

MAC Address	RSSI	Connected Band	Downlink	Uplink
-------------	------	----------------	----------	--------

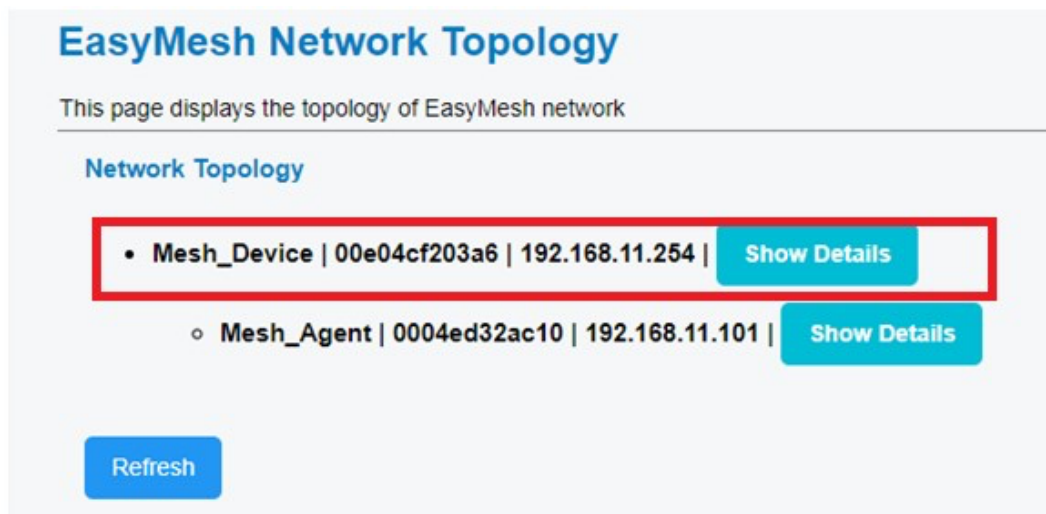
5. If you cannot see Mesh_Agent_Device on Network topology, please repeat step 3.
6. When EasyMesh connection is done on **3200AC**, you can see Internet LED is green and also both WLAN 5G/WLAN 2.4G- SSID/Security/Channel are all same as EasyMesh controller (**TW-EAV510 WiFi 6ax**).
7. Wire Connection Check: Ethernet connection of **3200AC**. PC can get IP from **TW-EAV510 WiFi 6ax** and do Internet surfing without any problem.

Windows→Command Prompt→ipconfig

```
IPv4 Address. . . . . : 192.168.11.120
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.11.254
```

8. Wireless Connection Check: Mobile phone is around Mesh_Device (**TW-EAV510 WiFi 6ax**).

Please check Mesh_Device "Show Details " button on **TW-EAV510 WiFi 6ax**
>WLAN>Easy Mesh>Topology.



The MAC address of Mobile phone will be shown on Mesh_Device as below:

EasyMesh Device Details Table

This table shows the details of individual EasyMesh device in the network, child neighbor list and associated station list.

Neighbor RSSI (excluding parent AP)			
MAC Address	Name	RSSI	Connected Band
0004ed32ac10	Mesh_Agent	84	5G

Station Info				
MAC Address	RSSI	Connected Band	Downlink	Uplink
76791823a7f9	0	5G	0	0

RefreshBack

The MAC address of Mobile phone will not be shown on Mesh_Agent_Device as below:

EasyMesh Network Topology

This page displays the topology of EasyMesh network

Network Topology

- Mesh_Device | 00e04cf203a6 | 192.168.11.254 | Show Details
 - Mesh_Agent | 0004ed32ac10 | 192.168.11.101 | Show Details

Refresh

EasyMesh Device Details Table

This table shows the details of individual EasyMesh device in the network, child neighbor list and associated station list.

Neighbor RSSI (excluding parent AP)			
MAC Address	Name	RSSI	Connected Band

Station Info				
MAC Address	RSSI	Connected Band	Downlink	Uplink

RefreshBack

9. Wireless Connection Check: Mobile phone is around Mesh_Agent_Device (3200AC).

The MAC address of Mobile phone will not be shown on Mesh_Device as below:

EasyMesh Network Topology

This page displays the topology of EasyMesh network

Network Topology

- Mesh_Device | 00e04cf203a6 | 192.168.11.254 | [Show Details](#)
- Mesh_Agent | 0004ed32ac10 | 192.168.11.101 | [Show Details](#)

[Refresh](#)

EasyMesh Device Details Table

This table shows the details of individual EasyMesh device in the network, child neighbor list and associated station list.

↳ Neighbor RSSI (excluding parent AP)

MAC Address	Name	RSSI	Connected Band
0004ed32ac10	Mesh_Agent	92	5G

↳ Station Info

MAC Address	RSSI	Connected Band	Downlink	Uplink
-------------	------	----------------	----------	--------

[Refresh](#) [Back](#)

The MAC address of Mobile phone will be shown on Mesh_Agent_Device as below:

EasyMesh Network Topology

This page displays the topology of EasyMesh network

Network Topology

- Mesh_Device | 00e04cf203a6 | 192.168.11.254 | [Show Details](#)
- Mesh_Agent | 0004ed32ac10 | 192.168.11.101 | [Show Details](#)

[Refresh](#)

EasyMesh Device Details Table

This table shows the details of individual EasyMesh device in the network, child neighbor list and associated station list.

↳ Neighbor RSSI (excluding parent AP)

MAC Address	Name	RSSI	Connected Band
-------------	------	------	----------------

↳ Station Info

MAC Address	RSSI	Connected Band	Downlink	Uplink
76791823a7f9	53	5G	866	54

Refresh

Back

Note:

1. The maximum number of AP devices allowed within a single EasyMesh networks is 6.
2. Currently EasyMesh implementation only supports the Controller Role.
3. Do not attempt to trigger WPS push button on more than 2 devices simultaneously.
4. Do not attempt to make modifications on the Web-UI of agent devices except for the first time set up. Only access Web-UI of agent devices for verification (read only) purpose if necessary. All setting changes can be done on the Web-UI of the controller device and will be automatically synchronized to all agent devices.

Huomaa!

merkintä:

1. Yhdessä EasyMesh-verkossa sallittu AP-laitteiden enimmäismäärä on 6.
2. Tällä hetkellä EasyMesh-toteutus tukee vain ohjaimen roolia.
3. Älä yritä laukaista WPS-painiketta useammassa kuin kahdessa laitteessa samanaikaisesti.
4. Älä yritä tehdä muutoksia agenttilaitteiden Web-käyttöliittymään paitsi ensimmäistä kertaa. Käytä agenttilaitteiden Web-UI-käyttöliittymää vain varmennustarkoituksessa (vain luku) tarvittaessa. Kaikki asetusmuutokset voidaan tehdä ohjainlaitteen web-käyttöliittymässä ja ne synkronoidaan automaattisesti kaikkien agenttilaitteiden kanssa.