



How to set up a Mesh network with WiFi 6 AP

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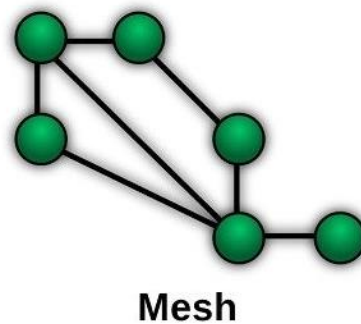
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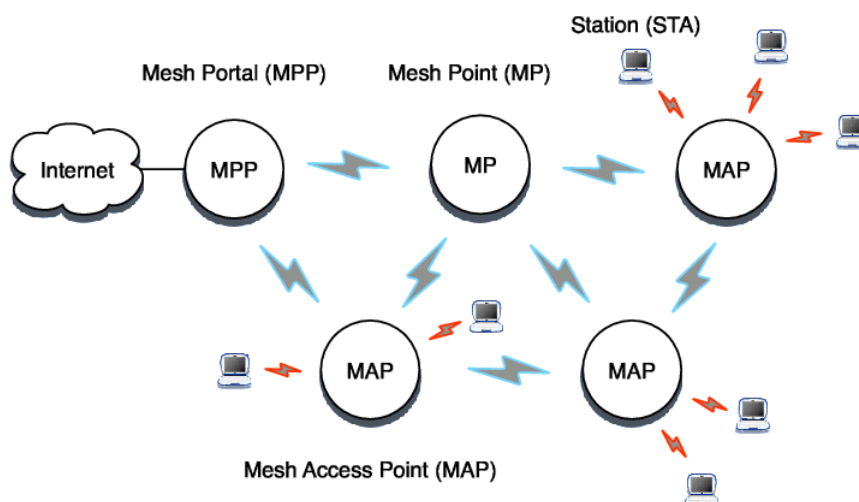
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1. What is a Mesh network?

- A wireless mesh network is a communications network made up of radio nodes organized in a mesh topology.
- Wireless mesh infrastructure is a network built of peer radio devices that do not have to be cabled to a wired port like traditional WLAN access points (AP) do. Mesh infrastructure carries data over large distances by splitting the space into a series of short hops.
- Mesh network establishes the multi wireless link between nodes, providing backup uplinks when one of the nodes was out of service. It enhances the stability of network service.



- In the Mesh network, WiFi 6 AP could be a Mesh Portal Point (MPP), Mesh Point (MP), or a Mesh Access Point (MAP).



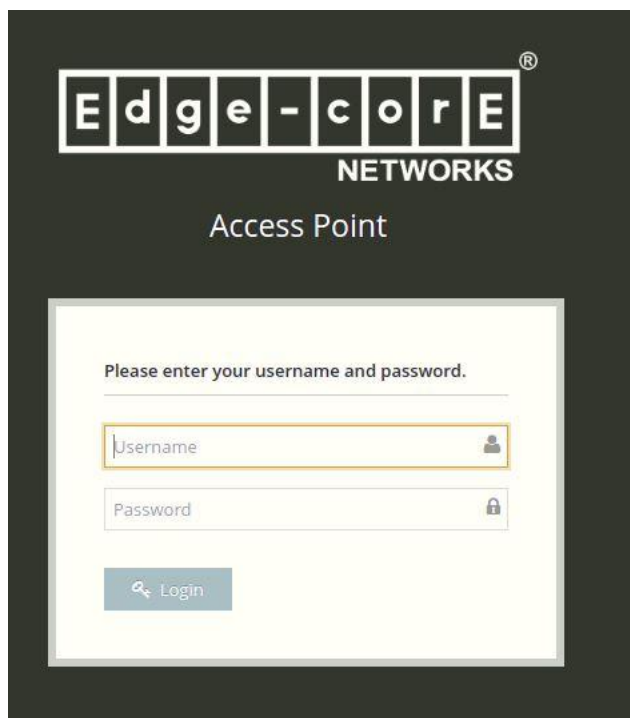
2. How to set up a Mesh network with WiFi 6 AP

The steps below show how to set up a Mesh network with two WiFi 6 APs. One acts as a Mesh Portal Point (MPP), the other works as a Mesh Access Point (MAP).

2.1 Configure the Mesh Portal Point

1. Power on the EAP101, and plug the WAN uplink to a DHCP network. The default WAN setting is DHCP. The MPP should reach the network.
2. Configure the laptop ethernet to DHCP and connect to AP's LAN to access the IP at 192.168.2.1.

The default administrative account is **Username=admin, Password=admin**.



- The AP can only enable Mesh with one interface, either 2.4GHz or 5GHz wireless interface. Please configure the Mesh wireless interface with a specific channel and then click Save and apply.

Please note: Mesh network is a low-mobility centralized form of wireless connection. Please don't set Channel=Auto.

Wireless Settings(Radio 5 GHz)

PHYSICAL RADIO SETTINGS

Status ON

802.11 Mode (802.11ax)

Channel Bandwidth (80MHz)

Channel (36 (5.18 GHz))

Beacon Interval (100)

Minimum signal allowed (0)

- Enable the Mesh point of the wireless internet. Configure the Mesh ID. Mesh security is not necessary needed but recommended, in this guide we will be using "No Security", and then apply the setting. If you choose a security, remember to set the same security on the Mesh Access Point as well.

OPEN MESH SETTINGS

Mesh Point ON

Mesh Id (openmesh)

Method (No Security)

- Go to Dashboard to see the Mesh network associated stations.

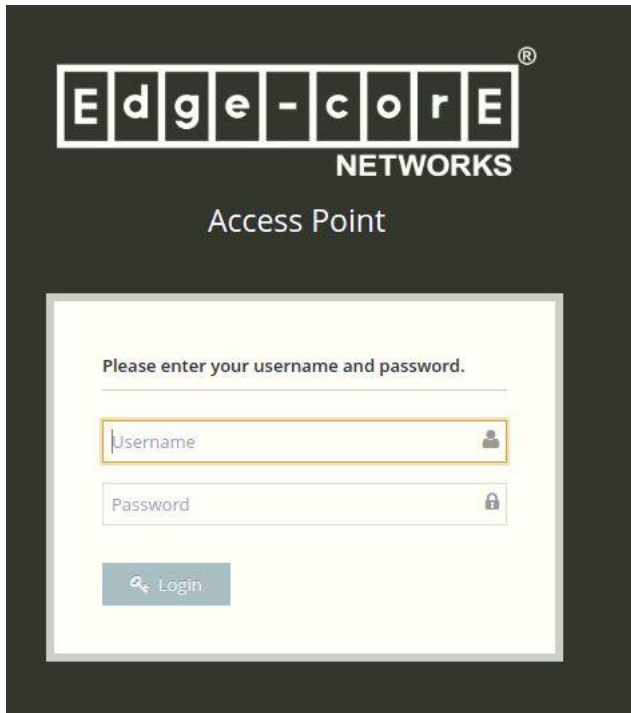
ASSOCIATED STATIONS

Network	Wireless Radio	Name	MAC-Address	IP Address	Signal	Connected Time	Idle Time	Client TX Rate	Client RX Rate	TX	RX	TX Packets	RX Packets
openmesh	5 GHz	n/a	34:EF:B6:AF:49:66	n/a	-41 dBm	2 min 38 sec	0 min 0 sec	12.0 Mbps	0.0 Mbps	457 KB	2.28 MB	1327	5341

2.2 Configure the Mesh Access Point

- 1 Configure the laptop ethernet to DHCP and connect to AP's LAN to access the IP at 192.168.2.1.

The default administrative account is **Username=admin, Password=admin**.



- 2 The EAP101 can enable Mesh with one interface, either 2.4GHz or 5GHz wireless interface. Configure the Mesh wireless interface with a specific channel.

Please note: Mesh network is a low-mobility centralized form of wireless connection. Please don't set Channel=Auto.



- 3 Enable the Mesh point of the wireless internet. Configure the Mesh ID.
Mesh security is not necessary needed but recommended, in this guide we will be using "No Security", and then apply the setting. If the Mesh Portal Point has security, please remember to set the same security.

OPEN MESH SETTINGS

Mesh Point

Mesh Id

Method

- 4 Go to Dashboard to see the Mesh network associated stations.

ASSOCIATED STATIONS

Network	Wireless Radio	Name	MAC-Address	IP Address	Signal	Connected Time	Idle Time	Client TX Rate	Client RX Rate	TX	RX	TX Packets	RX Packets
openmesh	5 GHz	n/a	34:EF:B6:AF:49:66	n/a	-41 dBm	2 min 38 sec	0 min 0 sec	12.0 Mbps	0.0 Mbps	457 KB	2.28 MB	1327	5341

Please contact Edgecore's Technical Support Team at ecwifi@edge-core.com for additional inquiries