

EasyMesh HowTo V1.2

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This document is intended for helping users to setup the EasyMesh network.

1 Introduction

1.1 EasyMesh Network

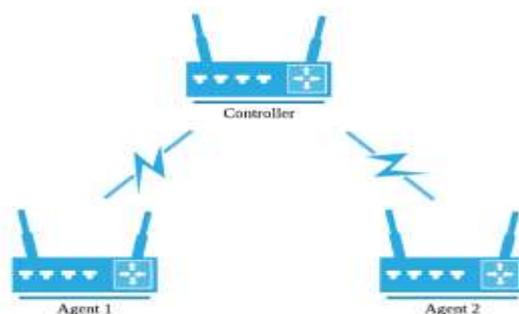
EasyMesh is a Wi-Fi Alliance certification that brings a standards-based approach to multiple AP Wi-Fi networks. The EasyMesh program defines the control protocols between APs to enable multi-vendor interoperability. EasyMesh networks use a controller to manage the network, with agent APs connected to it. Controllers are often located in the main gateway which connects a home network to the service provider infrastructure. The main gateway frequently includes the controller and an integrated agent AP that the controller also manages. EasyMesh has a tree topology and uses legacy AP/Client connection.

1.2 EasyMesh Controller

The EasyMesh controller provides the functionality to onboard and provision other EasyMesh devices onto the network. It also manages all EasyMesh agents by receiving metrics and capability data and controls the operating parameters like channel of operation, data flow topology, and client roaming between agents. It also sends control commands to the agents to improve load balancing and other management functions.

1.3 EasyMesh Agent

All APs in a EasyMesh network are agents. A EasyMesh agent is also a logical entity. It executes commands from the controller and reports measurements and capabilities to the controller and other agents in the network. An agent also serves as the Wi-Fi interface to client devices.



2 Setup EasyMesh network

2.1 Setup easymesh controller

Setup ONT-212GW-AC5 (2GE+1POTS+WIFI +USB dual mode ONU)

2.1.A set ONT-212GW-AC5 as controller

If you are using ONT-212GW-AC5 (2GE+1POTS+WIFI +USB XPON ONU) as controller, please follow this step.

- 1, Press WPS button, ONT-212GW-AC5 will auto enable as EasyMesh Controller.

2.1.B set R211W-AC5 as controller

If you are using R211W-AC5 (1GE+1FE Mesh Router) as controller, please follow this steps.

- 1, Login web, setup WAN connection first.
- 2, Press WPS button for 3 seconds then release, device will be enabled as easymesh controller.

2.2 setup easymesh agents

2.2.1 set R211W-AC5 as agent

If you are using R211W-AC5 (1GE+1FE Mesh Router) as agent, please follow this steps.

- 1, Login web, restore device to default, or press reset button and hold for more than 10 seconds and wait device reboot.
- 2, Press WPS button for 3 seconds then release, device will be enabled as easymesh agent.

2.2.2 Notices

1, It will take a few minutes for easymesh network auto generate.

2, If device enabled as easymesh agent, and easymesh is not connected, you may not find this device's SSID, you can load default or use a wired cable to visit device manage web .

3, On R211W-AC5, once you setup a WAN connection, device will auto switch to controller mode

4, once they finished connecton, agent ' s SSID name, psk, and other WLAN setting will be the same as controller's, and once you change controller's SSID or other WLAN setting, agent will auto sync this changes.

2.3 check easymesh topology

2.3.1 with a ONT-212GW-AC5 controller

go to NETWORK -> 5G -> Topology

The screenshot shows a web interface for network management. At the top, there are tabs for 'Network', 'Status', 'Network', 'Security', 'Application', 'Management', 'Diagnostics', and 'Help'. Under the 'Network' tab, there are sub-tabs: 'Internet', 'Bind Settings', 'LAN', '5G', '2.4G', 'TR069', 'QoS', 'Time', and 'Route'. A red arrow labeled '1' points to the '5G' sub-tab. On the left sidebar, there are links for 'WLAN Basic', 'WLAN Advanced', 'WLAN Security', 'WPS Settings', 'EasyMesh Interface Setup', and 'Topology'. A red arrow labeled '2' points to the 'Topology' link. The main content area is titled 'EasyMesh Network Topology' and contains the text: 'This page displays the topology of EasyMesh network.' Below this, there is a table with the following data:

| Network Topology: | |
|--|--------------|
| EasyMesh_Device 8014a8e85c60 192.168.100.1 | Show Details |
| E524E8 006051e524e8 192.168.100.9 | Show Details |

At the bottom of the table, there is a 'Refresh' button.

Here shows the topology of this easymesh network, you can see the new ip address of the agent device, you can visit this new ip address to access to agent device. and click Show Details to check more info

2.3.2 with a R211W-AC5 controller

go to EASYMESH -> NETWORK TOPOLOGY

