

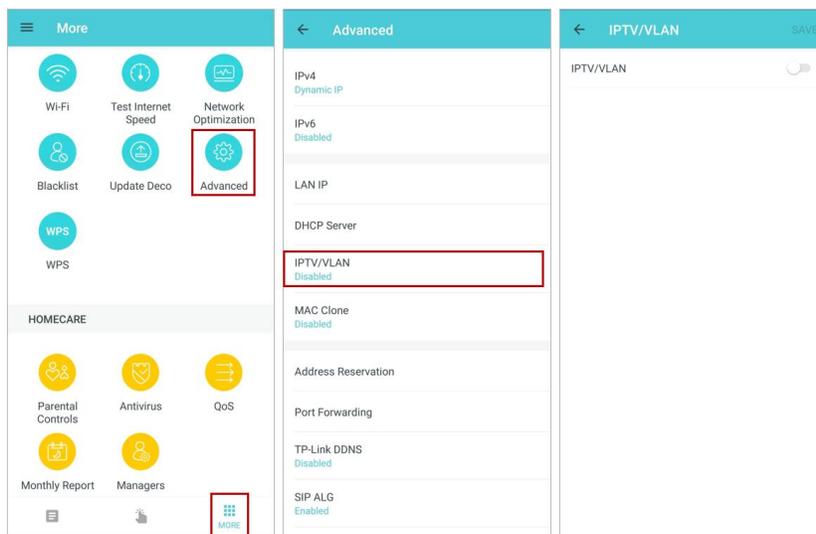
How to configure VLAN ID for your internet connection on Deco?

Some ISP like DoDo NBN and TPG FTTB in Australia need configure VLAN ID for internet connection. This article will guide you to configure the VLAN ID on the Deco.

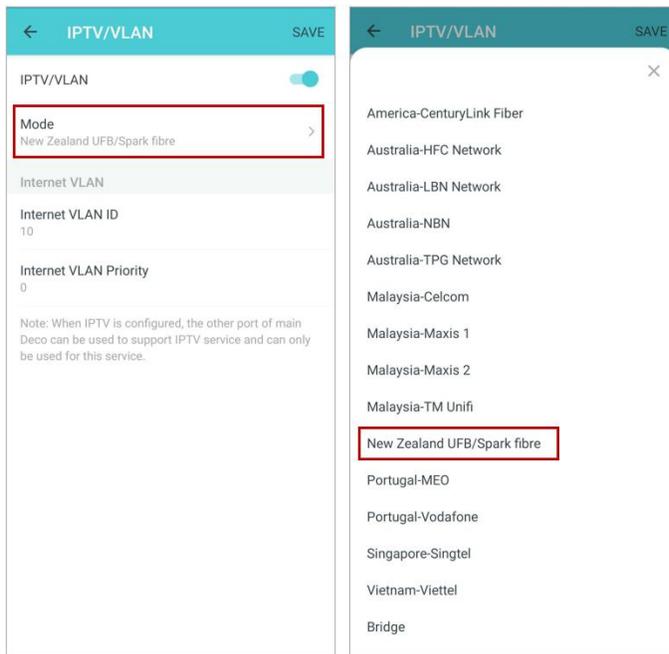
Note:

- a. If your internet service is working fine, please ignore this article and just keep the current settings.
- b. In this article, we will take Deco M5 as an example.
- c. This article suits users who need to set a VLAN ID for internet connection.

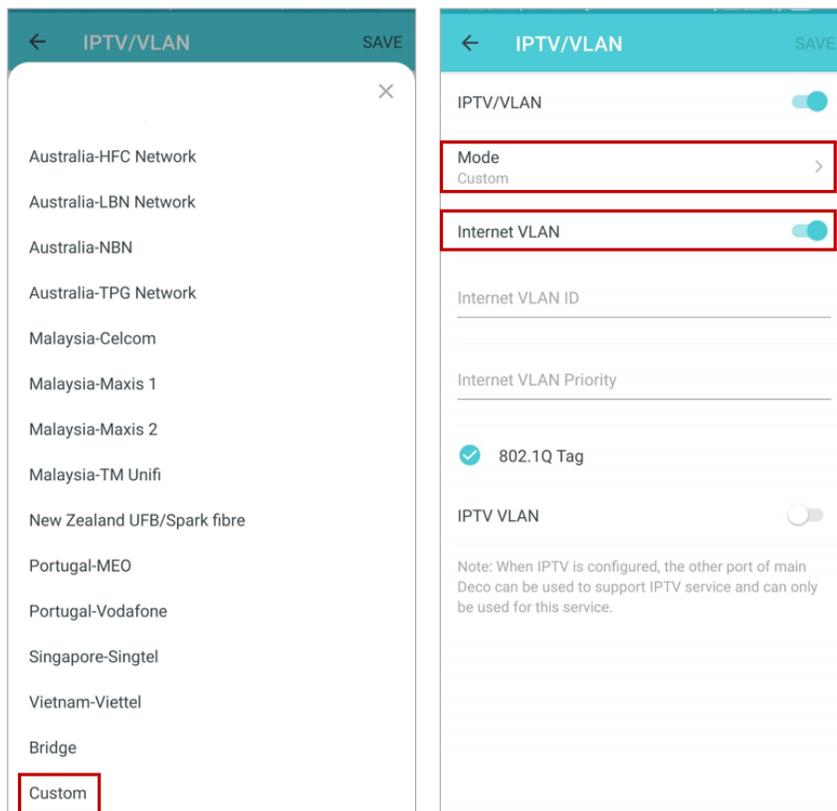
1. On the Deco App, please go to "More", tap "Advanced" and then click on "IPTV/VLAN".



2. Enable IPTV/VLAN, click on VLAN Mode, if your ISP is in the list, tap your ISP name and the VLAN ID will enter on the VLAN page automatically. Here we take "New Zealand UFB/Spark fibre" for example.



3. If your ISP is not in the list, please select "Custom", then enter the Internet VLAN ID and Internet VLAN Priority according to the information provided by your ISP, click on "Save" to finish the setup process.



Note: If your ISP do not provide Internet VLAN Priority, you can enter 0.

How to set up Deco to work in Access Point mode?

Access Point mode aims to extend the existing wired network and expand the wireless coverage for a home network. At this time, the Deco system will not create its own subnet but purely forward data between the root router and the clients.

Note:

1. Always keep the Deco's firmware up-to-date to use AP mode. If you're not sure, please open Deco app, tap "More", then select "Update Deco" for a check.
2. Please make sure you have installed the latest Deco app to use AP mode.
3. In AP mode, the Deco system will not act as a DHCP server to assign IP addresses to the clients. Please make sure you have enabled the DHCP server function on the root router.
4. In AP mode, since all the clients are managed by the root router, some advanced features will not be available in the Deco app, including Antivirus, Parental Controls, Port Forwarding, Address Reservation, TP-Link DDNS, etc.
5. Ethernet Backhaul is also working in AP mode.

Typical Setup

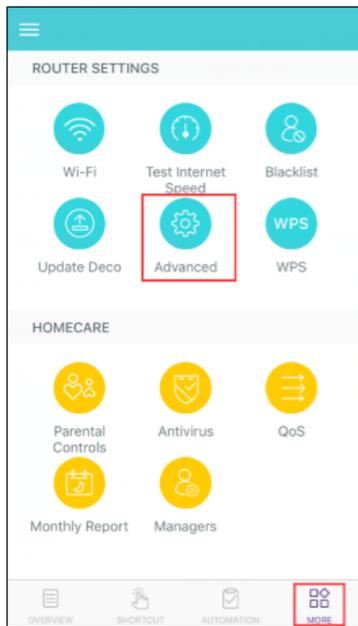
Ethernet Backhaul:



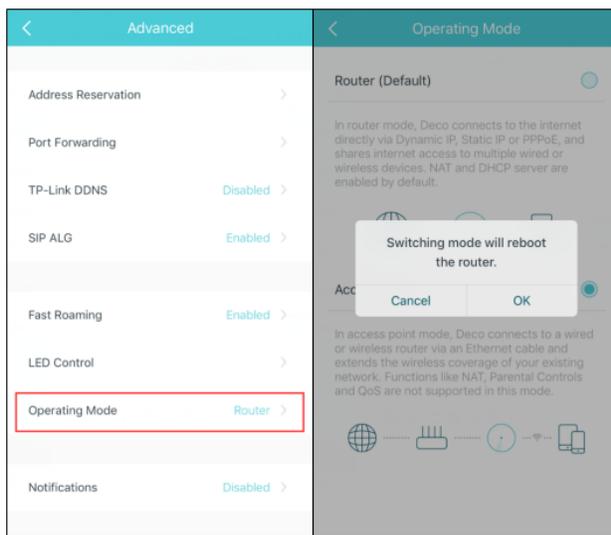
Wi-Fi Backhaul:



Step 1. Connect your phone to Deco WiFi, then launch the Deco app, tap "More" on the bottom right corner, and then tap "Advanced".



Step 2. Tap **“Operating Mode”**, then choose **“Access Point”** mode. The app will indicate to reboot the router, tap **“OK”**.



Step 3. Wait for about 2 minutes until the LED light recovers to solid green, then the Deco system will work in AP mode.

In AP mode, you’re able to change some basic settings in the Deco app including Wireless Settings, LED Control, etc. And you can refer to the [link](#) to know the differences between the Access Point and Router mode.

In addition, you can also tap **“Advanced”**, then tap **“Operating Mode”** to switch back to **“Router”** mode.

Why my clients fail to connect to the Deco Wi-Fi when Fast Roaming is enabled?

The Fast Roaming feature is based on the 802.11r roaming standard, which requires both the router and the client to support it to take effect.

Some wireless clients don't support the 802.11r roaming standard and couldn't recognize the 802.11r related information in the Beacon frames broadcast by Deco either. In this case, you may find that these clients may fail to connect to Deco's Wi-Fi network or disconnect from Deco's Wi-Fi network after turning on the Fast Roaming feature.

If some of your clients have a Wi-Fi connection issue, it's suggested to disable Fast Roaming for a try.

How to Boost Your Wi-Fi Signal?

What if the Wi-Fi signal coverage is not good because of the Wi-Fi dead zone? Below is the comparison of Range Extenders, Powerline Adapters, and Mesh devices, etc, you may choose an appropriate solution based on your own requirements.

Range Extender (RE)

Wi-Fi Range Extenders boost the existing Wi-Fi in your home by receiving the wireless signals from your router and repeating them with powerful amplifiers and antennas, extending your coverage by up to twice the range. Just place the range extender about halfway between your router and the Wi-Fi dead zone. The extender will capture and repeat the Wi-Fi signal from your router to the surrounding areas to expand your wireless network coverage. Your devices can connect to the network either through your router or extender as you move around your house. So sudden signal drops or Wi-Fi dead zones become a thing of the past.

Note: Like wireless routers, range extenders also suffer from interference from obstacles such as concrete walls, metal objects, and microwaves. To avoid such obstacles for the best wireless performance. All TP-Link range extenders have a Signal LED to indicate the signal strength a range extender gets from the main router, which can help you find the best location for your extender.



Power line Adapter (PLC)

Powerline networking solutions transmit data and extend your home network using existing electrical wiring. Eliminating the need for expensive and complicated Ethernet cables. Thick walls and similar obstacles aren't an issue the way they might be with a range extender.

Note: Both powerline adapters will need to be on the same electrical circuit. If your home is wired on multiple circuits, you'll need to check that the section of your home with the router and the section you want to add coverage to are on the same circuit.



Mesh

If you still encounter Wi-Fi dead-zones when walking around your home, you can take TP-Link's whole-home mesh Wi-Fi solutions into consideration. Mesh Wi-Fi network, multiple network nodes work together to form a single, unified network that shares the same Wi-Fi settings. To know more about it, refer to <https://community.tp-link.com/en/home/stories/detail/407>

TP-Link currently provides two mesh Wi-Fi solutions:

- **Deco: Whole new mesh ecosystem**

Setting up a whole new Wi-Fi system is a good choice if you want to have a new and high-quality system. For more details, please refer to <https://www.tp-link.com/support/faq/1427/>

When Deco works with the existing router, here are two typical connection structures.

Topology 1:



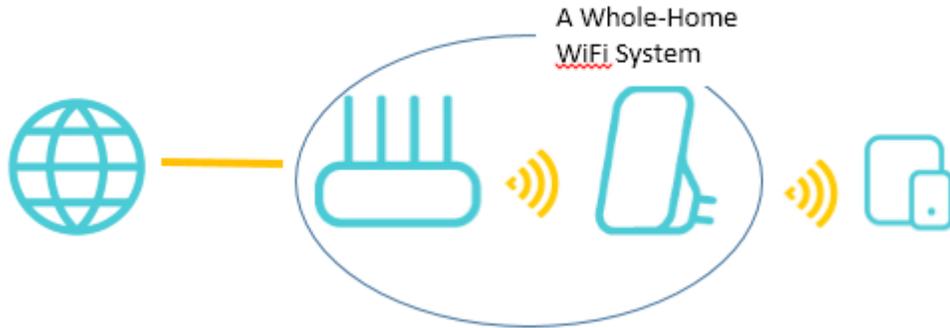
Topology 2---Ethernet backhaul, please refer to <https://www.tp-link.com/support/faq/1794/>



One Mesh™: Cost-effective mesh network with existing TP-Link devices

One Mesh network can provide stability, good performance network for you. If you already have a One Mesh router like Archer A7, you can just add a repeater to build a Whole-Home WiFi System.

To know more about an OneMesh™ network, refer [here](#).



Referring to the following summary and your house situation to choose the best Wi-Fi dead zone killer.

Scheme Comparison	Range Extender	Power Line Adapter	Mesh	Deco P7&Deco P9
One- Story Home	◇◇◇◇◇	◇◇◇◇◇	◇◇◇◇◇	◇◇◇◇◇
Multi-Story Home	◇◇◇	◇◇◇◇◇	◇◇◇◇◇	◇◇◇◇◇
How to extend	Wireless	Power Line	Wired or Wireless	Wired, Wireless, or Powerline
Implementation Conditions	No	Under the same power circuit	No	Under the same power circuit for Powerline transmission
Configuration Convenience	App Easy deployment	Plug and Play	App Easy deployment	App Easy deployment
Reliability	Fair	Good	Great	Excellent
Product Highlights	AC Passthrough	AC Passthrough (the model with letter"P")	Ethernet Backhaul	Ethernet and Powerline Backhaul
Scheme Details	Click here >>	Click here >>	Click here >>	Click here >>

◇: Recommendation Index

Disclaimer : Maximum wireless transmission rates are the physical rates derived from IEEE Standard 802.11 specifications. Range and coverage specifications along with the number of connected devices were defined according to test results under normal usage conditions. Actual wireless transmission rate, wireless coverage, and a number of connected devices are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume, and density of traffic, product location, network complexity, and network overhead and 3) client limitations, including rated performance, location, connection quality, and client condition.

Troubleshooting: Slow Internet Speed with Deco Devices

There are different situations in relation to the slow speed issue, please refer to the steps below to locate the problem and troubleshoot it according to the corresponding suggestions.

1. Things you should be aware of before testing speed:

- Make sure every Deco unit is properly placed, DO NOT put them into closets, TV cabinets, or any kind of enclosed space. Put them in an open space if you can.
- If you are using a wired PC to test speed, please make sure all the Ethernet cables and PC support 1Gbps (gigabyte) connection. (Ignore this if your broadband is slower than 100Mbps)
- If you are using a wireless device to test speed, make sure the wireless device is 5Ghz supported and capable of reaching high speed. Some old laptop's Wireless Network Adapter is not able to reach high speed.
- Speedtest in "Deco APP>>>MORE menu" measures the maximum speed of the main Deco, it doesn't mean all devices connected to Deco could reach that speed.
- Speedtest in Deco Lab measures your cellphone's real-time speed, the results of this speedtest should be the same with Speedtest App of Ookla.

2. Methods and Steps to verify speed:

- Use Ookla Speedtest App or <https://www.speedtest.net> to measure Internet speed.
- Verify maximum broadband speed by connecting a Gigabyte PC directly into the ISP Modem first.
- Verify wired speed into the Main Deco after verifying the ISP Modem's maximum speed.
- Disconnecting every wireless device if you are trying to measure the maximum wireless speed of Deco units, if multiple wireless devices are using the Wi-Fi network at the same time, speedtest results might not be satisfying.
- Always reconnect Wi-Fi on your cellphones/laptops everytime you perform a speedtest. Because some wireless devices might not support mesh and connects to the wrong Deco node which will cause a speed decrease.

3. Troubleshooting:

- Try removing QoS settings: Deco APP>>>QoS>>>(Set Application priority to Standard, Remove all high priority devices, set the Bandwidth to 1000Mbps upload and 1000Mbps download)
- Try turning off the UPNP feature in the Deco app. (If you can't find this feature in the Advanced menu, you may ignore this one.) (Kindly note that some online games might not be able to connect after turning off UPNP on the Deco.)
- Try downloading a Wi-Fi Analyzer Tool on your cellphone to check wireless channel interferences, crowded Wi-Fi channel will cause a severe performance decrease.

Sill thinking the speed you are getting from the Deco system is not satisfying?

Please [Contact US](#) along with your speedtest results, Deco network topology, speedtest devices, etc.

You may obtain the information of your PC's network adapter from here: (For Windows PC only)

1. Press WIN+R on the keyboard, type in "cmd" and enter, you will see a small black window.

2. In the small black window, type in "ipconfig /all" and press enter, the information of your network adapters will be printed.
3. Please copy the whole content of this window while contacting us, this information would be more helpful when troubleshooting this issue.

For more queries, please refer to the following FAQs:

<https://www.tp-link.com/uk/support/download/deco-s4/#FAQs>