deco™ | **Whole Home Powerline Mesh Wi-Fi System**
Seamless Roaming | Parental Controls | Easy Setup | Powerline Backhaul

User Guide

AC1200 + AV1000 Whole Home Powerline Mesh Wi-Fi System Deco P9

tp-link

Contents

About This Guide

This guide provides a brief introduction to Deco Whole Home Powerline Mesh Wi-Fi System and the Deco app, as well as regulatory information.

Features available in Deco may vary by model and software version. Deco availability may also vary by region or ISP. All images, steps, and descriptions in this guide are only examples and may not reflect your actual Deco experience.

Conventions

In this guide, the following conventions are used:

Convention	Description
Deco	Stands for Deco Whole Home Powerline Mesh Wi-Fi System/ Unit.
Underline	Hyperlinks are in teal and underlined. You can click to redirect to a website or a specific section.
Teal	Key information appears in teal, including management page text such as menus, items, buttons and so on.
🔖 Note:	Ignoring this type of note might result in a malfunction or damage to the device.
📎 Tips:	Indicates important information that helps you make better use of your device.

More Info

- Specific product information can be found on the product page at https://www.tp-link.com.
- A community is provided for you to discuss our products at https://community.tp-link.com.
- Our Technical Support contact information can be found at the Help center of the Deco app and the Contact Technical Support page at https://www.tp-link.com/support.

Speed/Coverage/Device Quantity Disclaimer

Maximum wireless transmission rates are the physical rates derived from IEEE Standard 802.11 specifications. Range, coverage, and maximum quantity of connected devices are based on test results under normal usage conditions. Actual wireless data throughput. wireless coverage, and quantity 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.

MU-MIMO Disclaimer

Use of MU-MIMO requires clients to also support MU-MIMO.
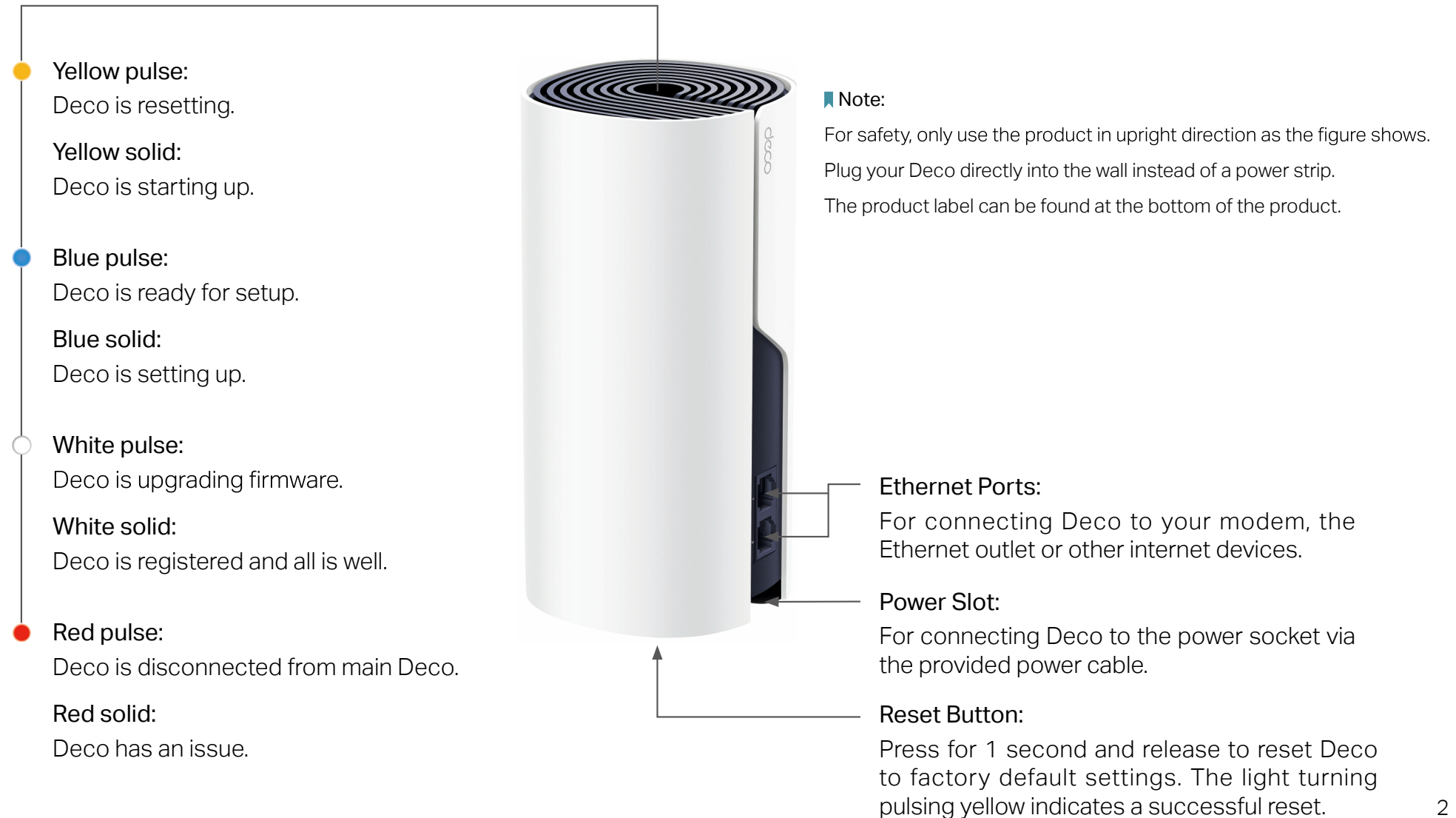
Seamless Roaming Disclaimer

Clients need to support 802.11k/v/r and may require additional set up. Performance may vary depending on the client device.

IoT Compatibility Disclaimer

IoT compatibility refers only to smart devices that can be controlled via the Deco app.

Appearance

Each Deco has an LED that changes color according to its status, two RJ-45 Ethernet ports, a power slot, and a Reset button. See the explanation below:

Yellow pulse:

Deco is resetting.

Yellow solid:

Deco is starting up.

Blue pulse:

Deco is ready for setup.

Blue solid:

Deco is setting up.

White pulse:

Deco is upgrading firmware.

White solid:

Deco is registered and all is well.

Red pulse:

Deco is disconnected from main Deco.

Red solid:

Deco has an issue.

Note:

For safety, only use the product in upright direction as the figure shows.

Plug your Deco directly into the wall instead of a power strip.

The product label can be found at the bottom of the product.

Ethernet Ports:

For connecting Deco to your modem, the Ethernet outlet or other internet devices.

Power Slot:

For connecting Deco to the power socket via the provided power cable.

Reset Button:

Press for 1 second and release to reset Deco to factory default settings. The light turning pulsing yellow indicates a successful reset.

Set Up Your Deco

The intuitive Deco app guides you through an easy setup process that gets each unit up and running and all your devices connected and online.

Follow the steps below to set up your Deco Whole Home Mesh Wi-Fi System.

1. Download and install the Deco app

Scan the QR code below or go to Google Play or the Apple App Store to download the Deco app. Install the app on your Android or iOS smartphone or tablet.
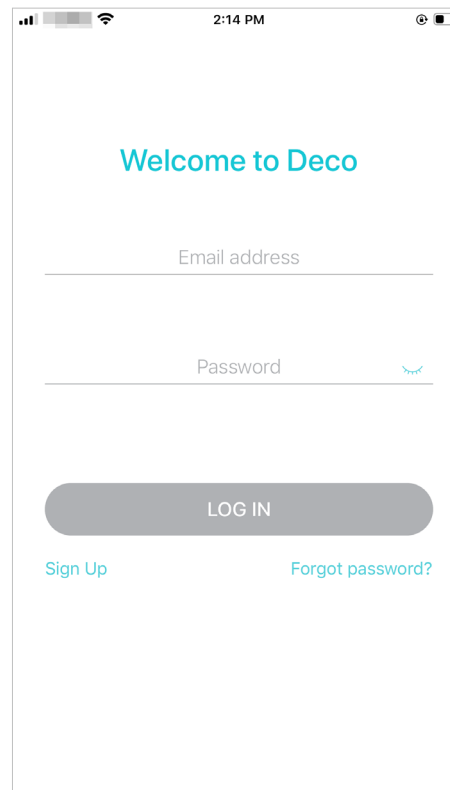
or

GET IT ON Google Play

Download on the App Store

2. Log in or sign up with TP-Link ID

Open the app. Use your TP-Link ID to log in.

If you don't have a TP-Link ID, tap Sign Up. The Deco app will guide you through the rest.

2:14 PM

Welcome to Deco

Email address

Password

LOG IN

Sign Up   Forgot password?

3. Identify Your Deco

Identify your Deco from the model list.

10:29

X20/W3600/HX20   X60

X25   P9

4. Connect Deco to your modem

Power off your modem. Connect your Deco to the modem and power them both on.

If you don't have a modem, connect the Ethernet outlet directly to your Deco.

⚑ Note: Plug your Deco directly into the wall instead of a power strip.
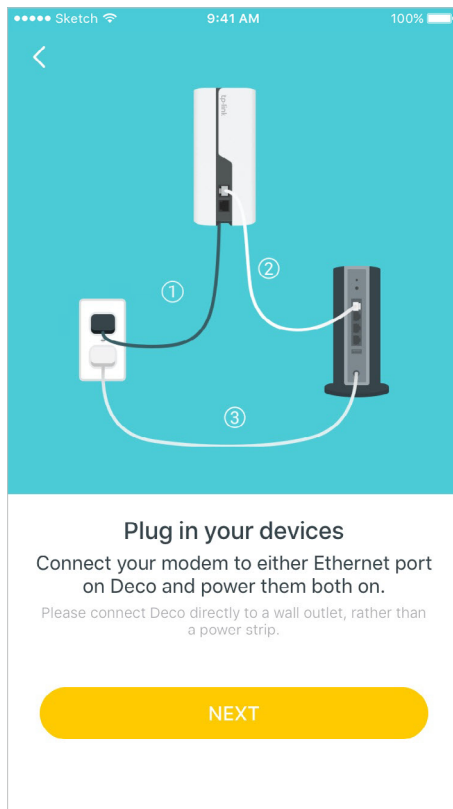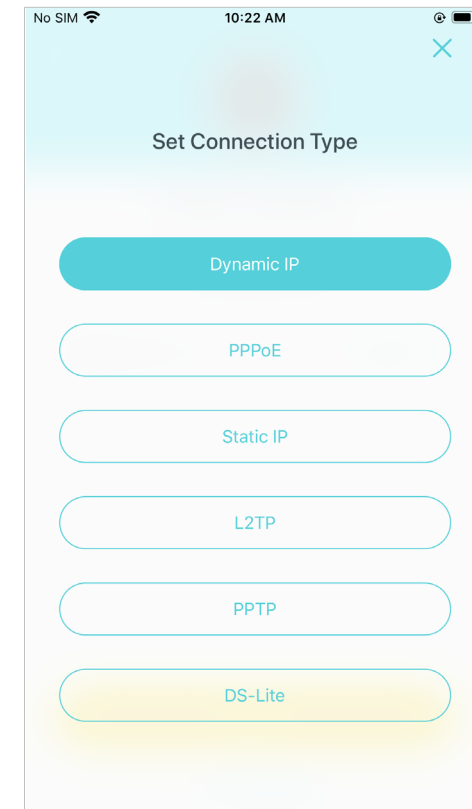
5. Select a location

Select a location for this Deco.

If its location is not listed, you can create a new one by choosing Custom.
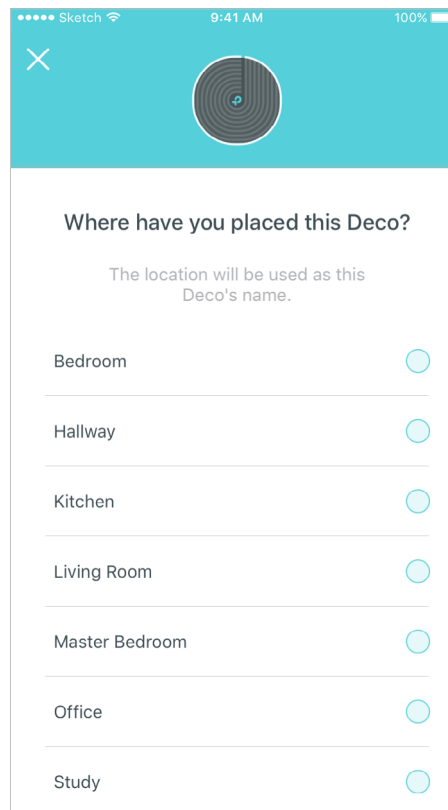
6. Set Up Internet Connection

Select the internet connection type and enter the information. If you are not sure, contact your internet service provider.

Plug in your devices

Connect your modem to either Ethernet port on Deco and power them both on.

Please connect Deco directly to a wall outlet, rather than a power strip.

NEXT

Where have you placed this Deco?

The location will be used as this Deco's name.

Bedroom

Hallway

Kitchen

Living Room

Master Bedroom

Office

Study

Set Connection Type

Dynamic IP

PPPoE

Static IP

L2TP

PPTP

DS-Lite

4

7. Create your Wi-Fi network

Set a network name and a password. These will be the name and password you use to connect your devices to Wi-Fi.

10:32

Create your Wi-Fi Network

This will be the name and password you'll use to access your network. Your password must be at least 8 characters.

Network Name

Password

It is recommended to set a password using a combination of letters, numbers and symbols.

NEXT

8. Connect to your Wi-Fi network

Connect your devices to the Deco's Wi-Fi to continue the setup.

10:33

Connect to your Wi-Fi network

Connect your phone/tablet to the Deco's Wi-Fi to continue the setup.

Network Name
Deco P9

Password

CONNECT

9. Setup complete

Your Deco network is now up. Add more Decos or complete the setup and connect all devices to the Deco network.

10:34

Your Deco network is now up

Your Deco is ready to use. Please connect all devices to the Deco network for better connections.

ADD ANOTHER DECO

DONE

Dashboard

After you successfully set up your Deco network, you will see the dashboard of the Deco app. Here you can get an overview of the network status and set up various advanced features.

Tap ☰ to get an overview of the network status
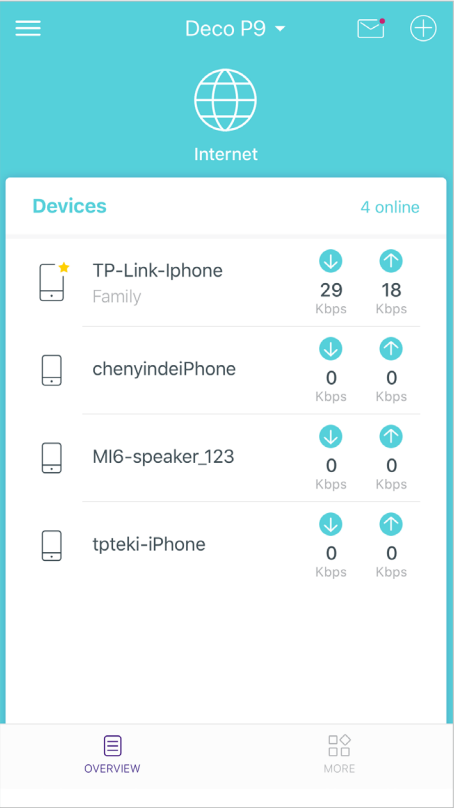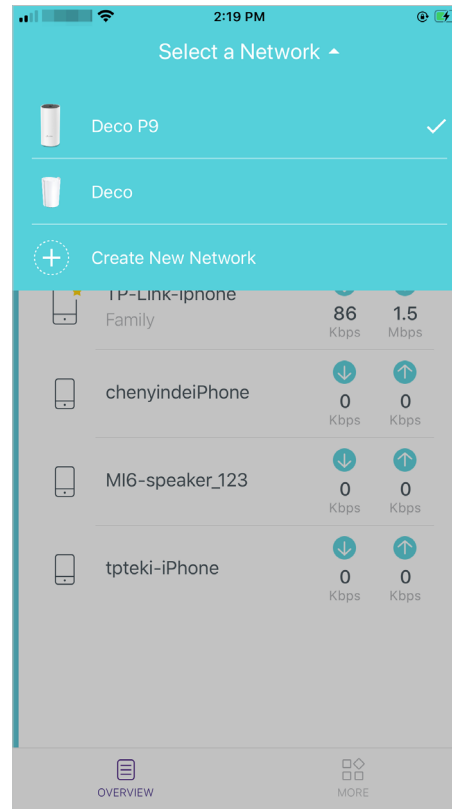
Tap ⊞ to set up more features
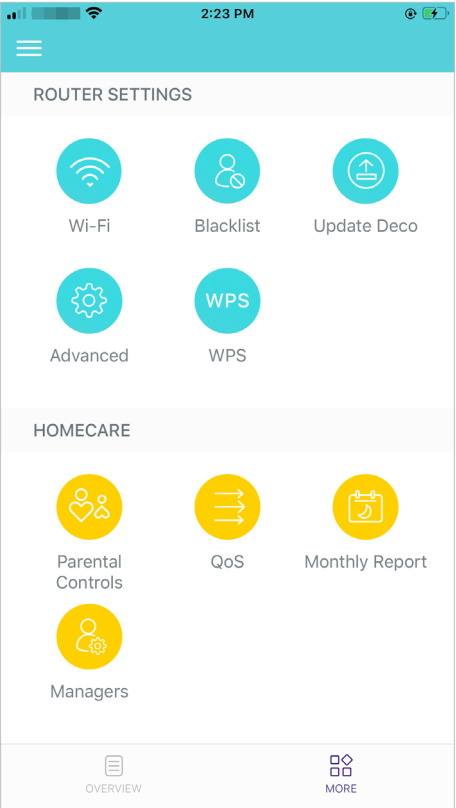
Overview

In Overview, you can check the working status of all the Decos, manage the connected devices, create new networks, add more devices, use friends of Deco, and more.
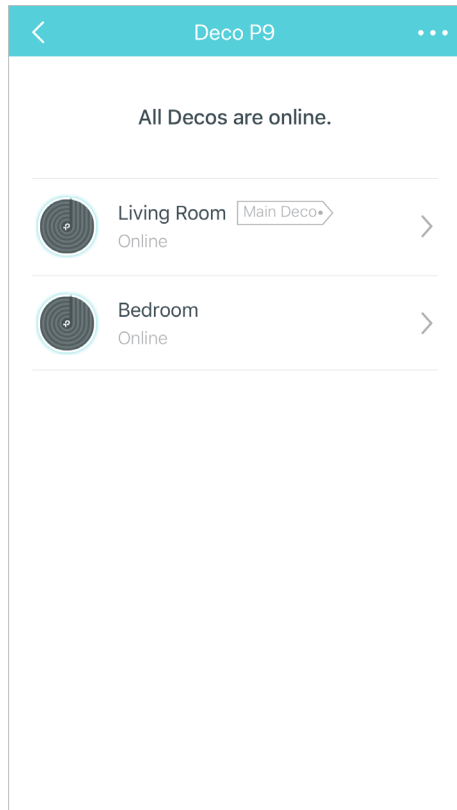
Tap ▤ to enter OVERVIEW
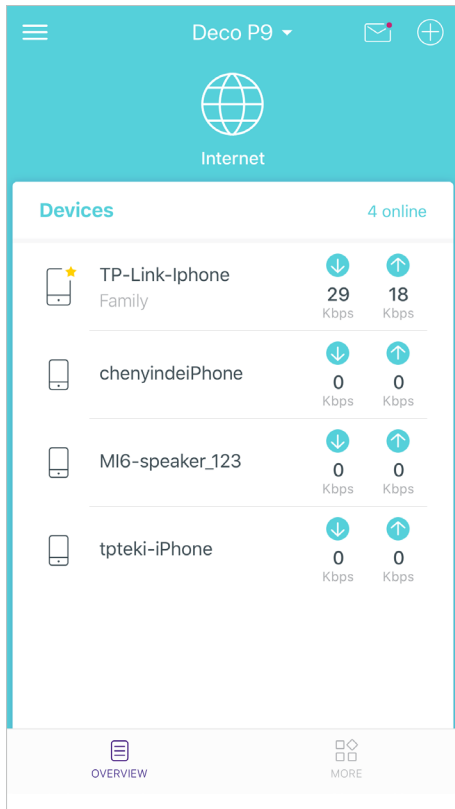
Tap 🔽 to create new networks

Tap ⊕ to add more Decos

🚩 Note: All the Deco P9 need to be on the same electrical circuit.
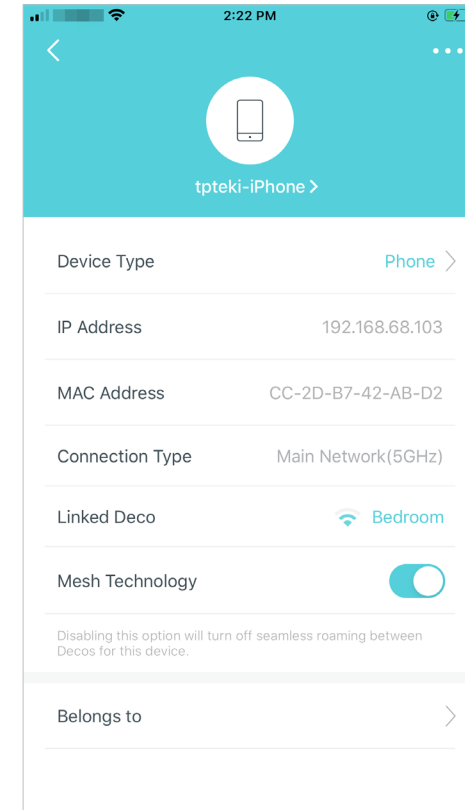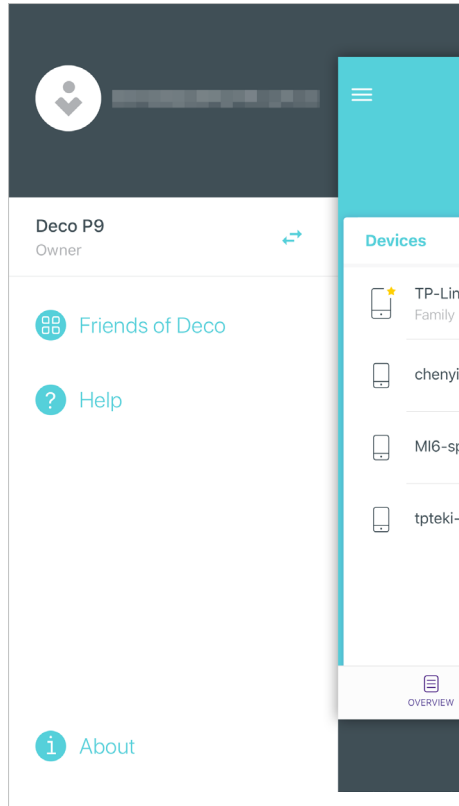
Tap 🌐 to check all Decos' status

All Decos are online.

Living Room [Main Deco●]
Online

Bedroom
Online

Select a Deco to view the details

2:21 PM

📍 Bedroom
MAC: 00-FF-00-01-13-4E
IP: 192.168.68.100

67   2.08

⬇ Download   ⬆ Upload
   Kbps   Mbps

Signal Source   📶 2.4GHz/5GHz ⌁ PLC
Living Room

CONNECTED   MESH ?
CLIENTS

📱 chenyindeiPhone   ⬤
📱 MI6-speaker 123   ⬤

Firmware Version:1.1.0 Build 20200610 Rel. 62624
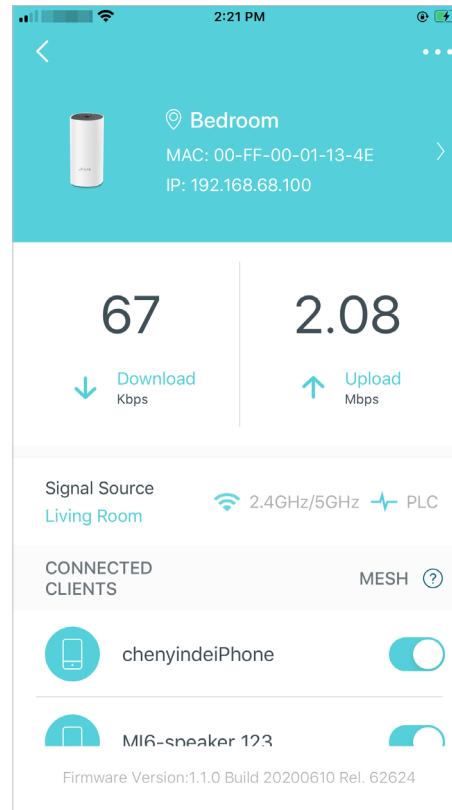
Tap a client on the Devices list to check the details

📎 Tip: Tap Belongs to to add a unique profile for the device

2:22 PM

tpteki-iPhone >

Device Type   Phone >

IP Address   192.168.68.103

MAC Address   CC-2D-B7-42-AB-D2

Connection Type   Main Network(5GHz)

Linked Deco   📶 Bedroom

Mesh Technology   ⬤

Disabling this option will turn off seamless roaming between Decos for this device.

Belongs to   >

8

Swipe right to open the menu for more information about Deco

Tap ✉ on the Dashboard to view notifications about new devices, Deco updates, monthly reports, and more

Deco P9
Owner

Devices

⊞ Friends of Deco

TP-Lin
Family

❓ Help

chenyi

MI6-sp

tpteki-

OVERVIEW

ℹ About

No SIM 📶   4:29 PM   🔋
‹   Messages (4)   Edit

New Device Detected   Aug 27, 2020
Name: TP-Link-Iphone
MAC: FC-FC-48-95-CD-F3   ›

● **New Device Detected**   Aug 27, 2020
Name: Honor_8-ff3549647e19563
MAC: B0-89-00-B5-A7-00   ›

● **New Device Detected**   Aug 27, 2020
Name: WilliamNi
MAC: 48-F1-7F-64-4A-E7   ›

● **New Device Detected**   Aug 27, 2020
Name: MI6-speaker_123
MAC: 4C-49-E3-ED-F9-99   ›

● **New Device Detected**   Aug 27, 2020
Name: chenyindeiPhone
MAC: 48-B8-A3-08-58-A6   ›

Wi-Fi Settings

You can change the network name and password of your main network, create a separate network for guests, and shake your device to share the network details easily with family and friends.

Tap ⬚⬚ > Wi-Fi

Manage main Wi-Fi network
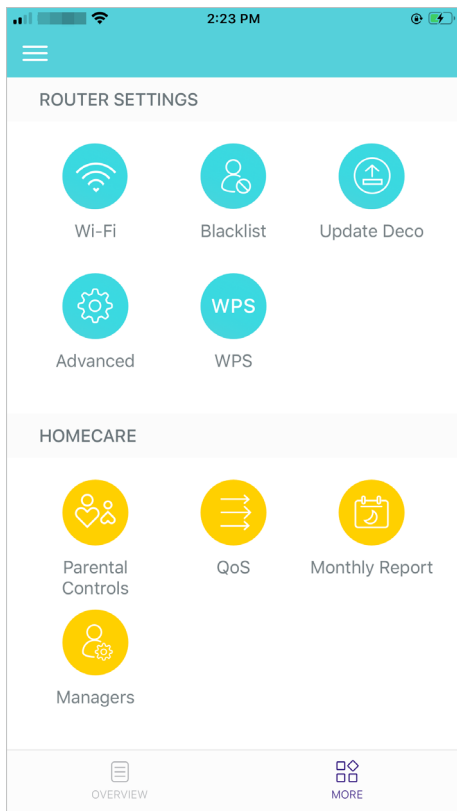
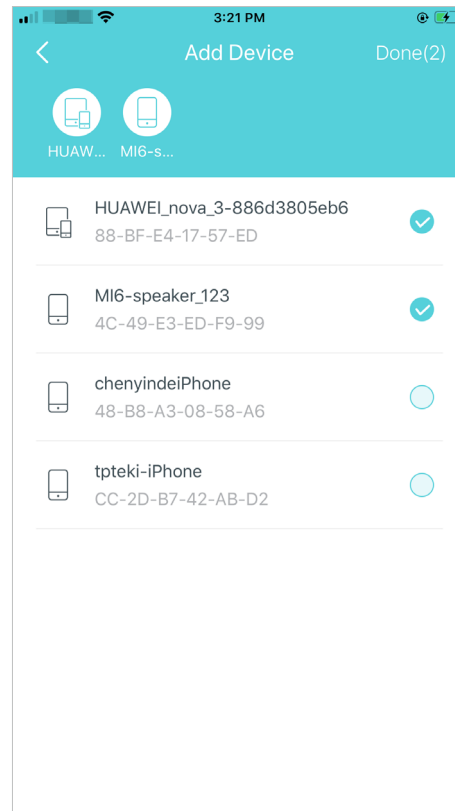**Enable guest network**

Shake to share your network
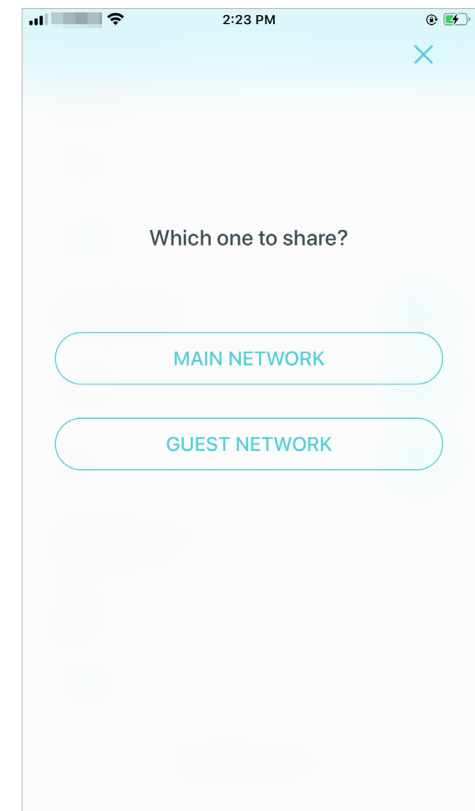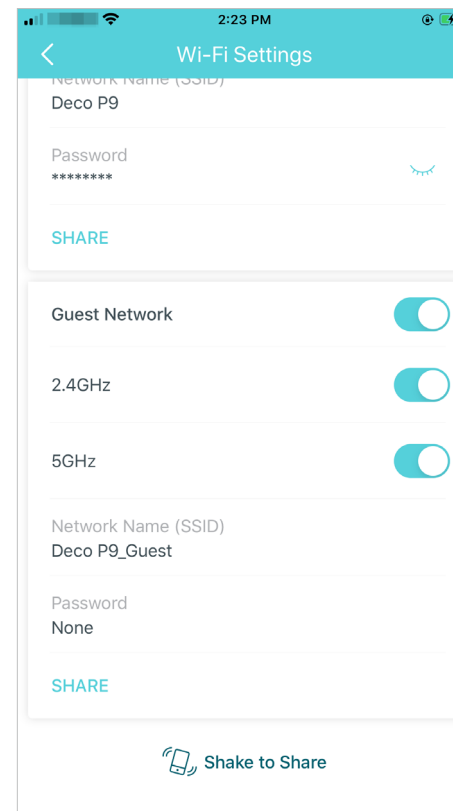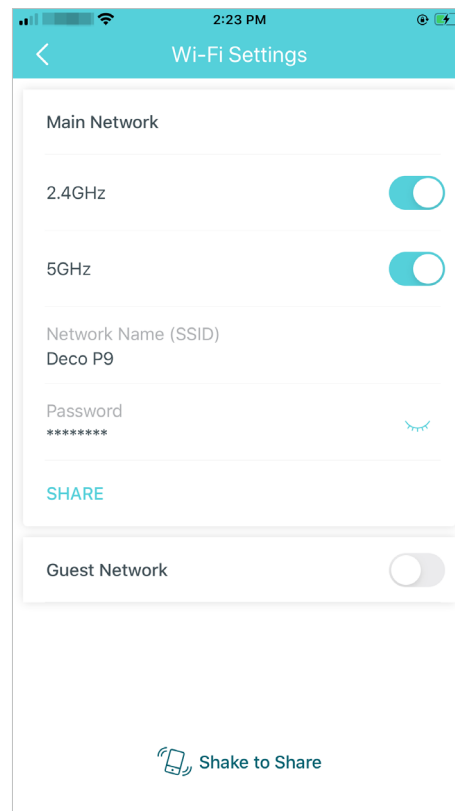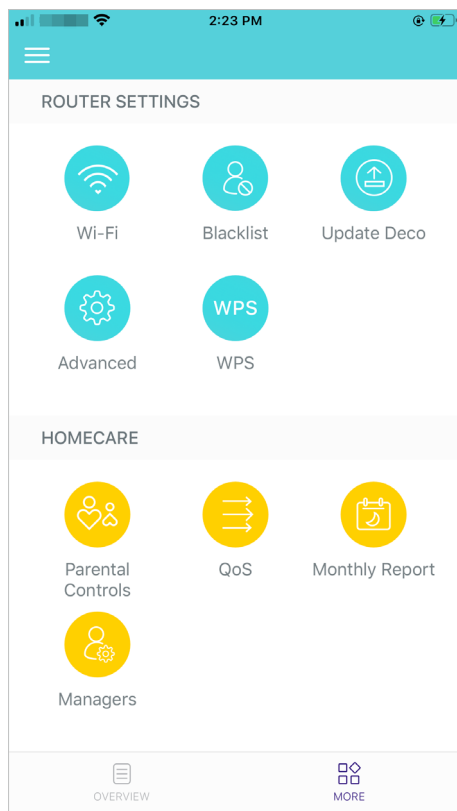
Blacklist

Compile a blacklist to avoid devices added on the blacklist to access to your network, ensuring the safety of your personal information shared in the network.
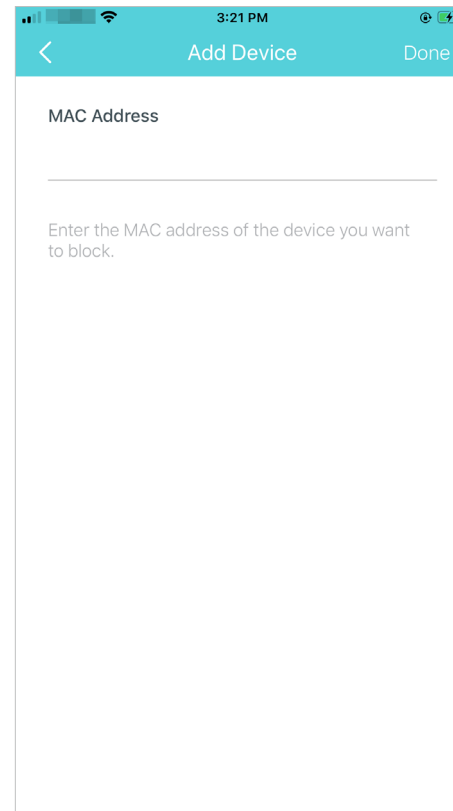
Tap ⊞ > Blacklist

Add clients to blacklist

Add other devices to blacklist

Manage blacklist

Online Update

TP-Link is dedicated to improving product features and providing a better customer experience. An up-to-date firmware provides better and more stable network performance. Always update your Deco to the latest firmware version when prompted in the Deco app.

Tap ⬚ > Update Deco
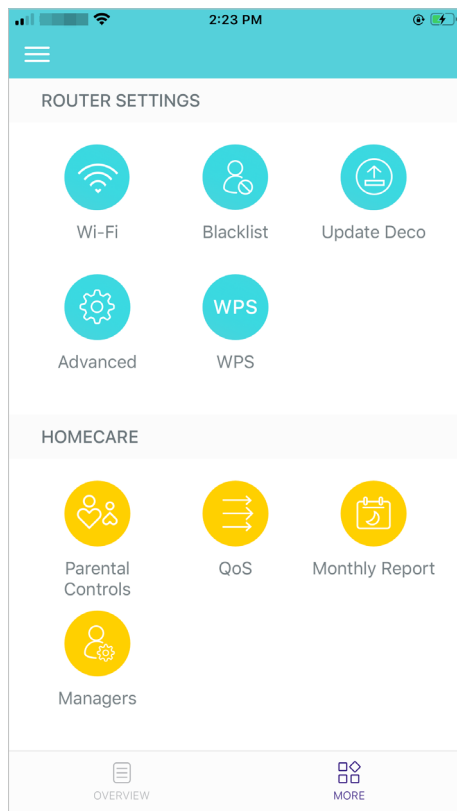
Update your Deco to the latest version

📎 Tip: If the firmware update fails, please reboot the main Deco, move the Satellite Deco closer to the main Deco, then try to update again.
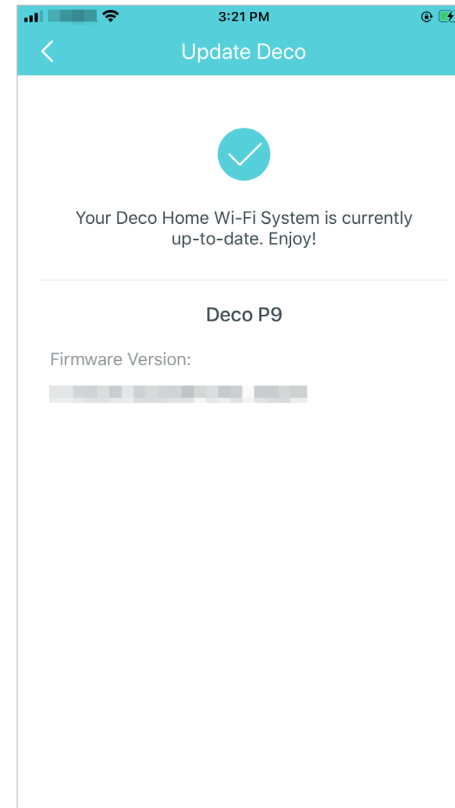
Advanced Features

Additional features are available under the Advanced menu. You can modify WAN settings (IPv4 & IPv6), add IPv6 firewall rules, modify LAN IP, set up DHCP server, enable VLAN/IPTV/MAC Clone mode, reserve the same IP address for a specific device, set up port forwarding rules to make your local computers accessible to other devices over the internet, enable TP-Link DDNS, SIP ALG, fast roaming and beamforming, control Deco's LED, change the working mode, and configure the notification settings.
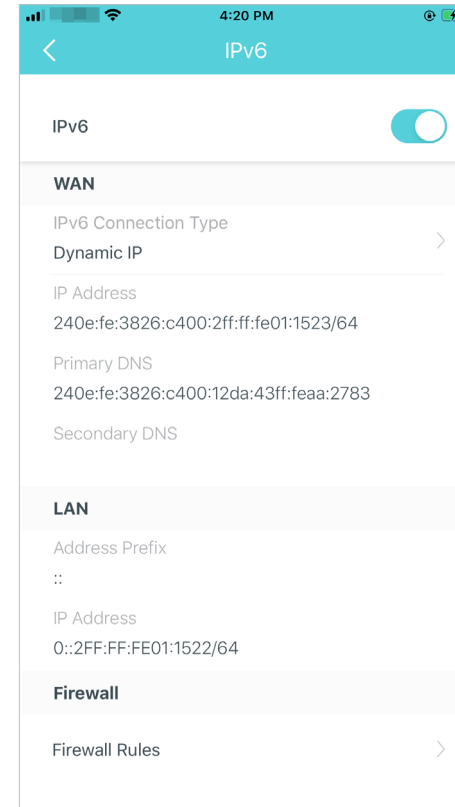
Tap ⊞◇ > Advanced
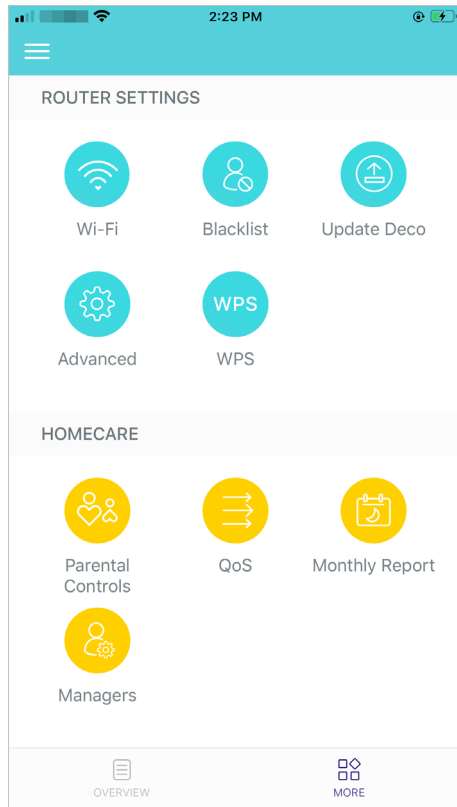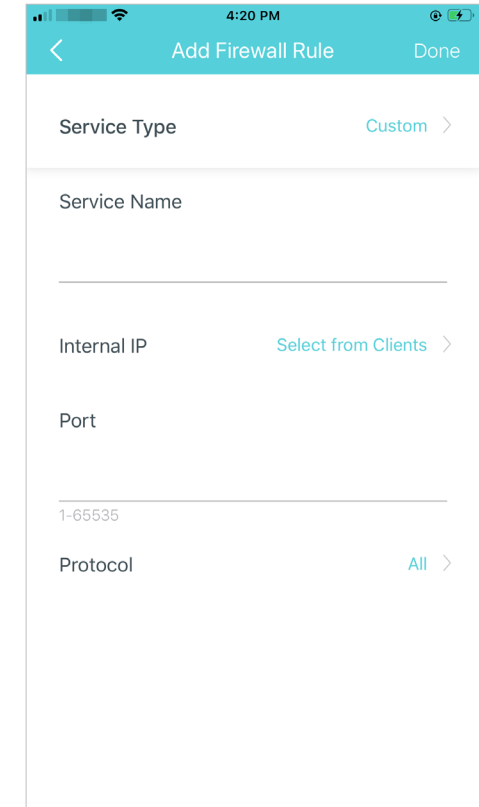
View IPv4 details or change internet connection type

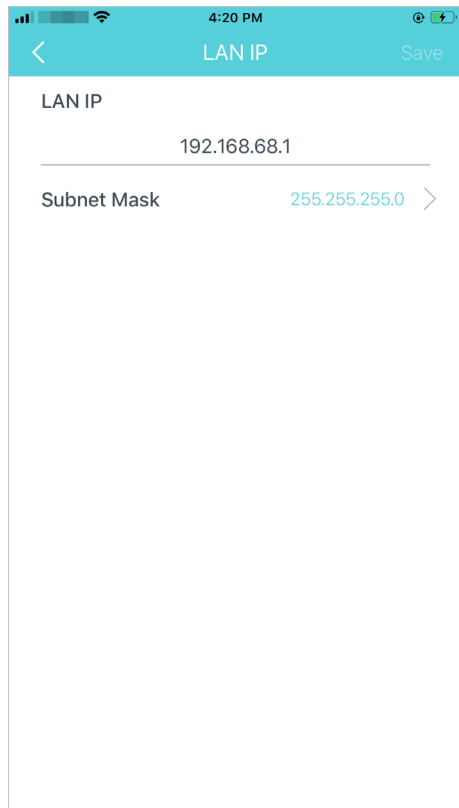*Enable Ignore Ping from WAN to prevent external Ping attacks
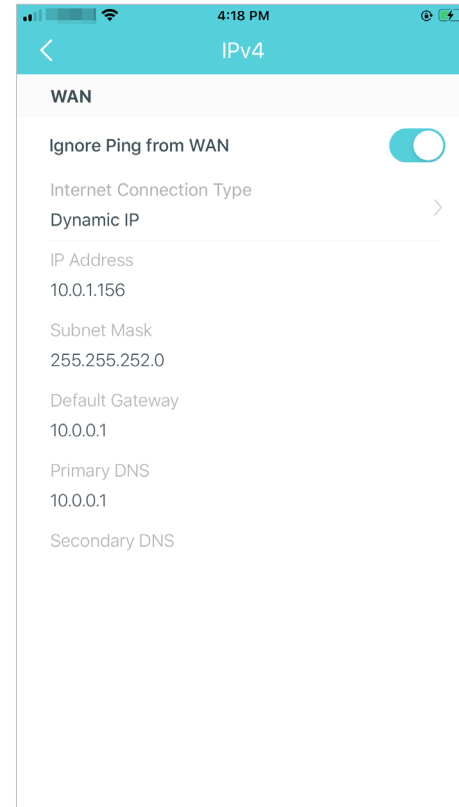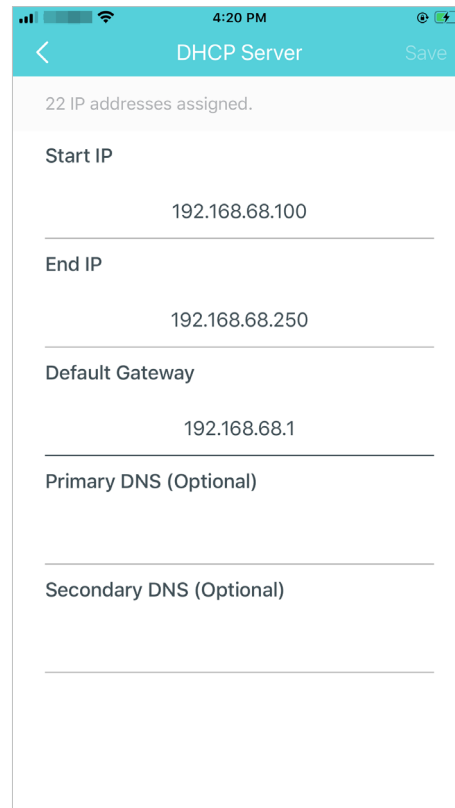
Enable IPv6

Add IPv6 firewall rules

Modify LAN IP

	4:20 PM	
<	LAN IP	Save

LAN IP

192.168.68.1

Subnet Mask 255.255.255.0 >

Set DHCP server

	4:20 PM	
<	DHCP Server	Save

22 IP addresses assigned.

Start IP

192.168.68.100
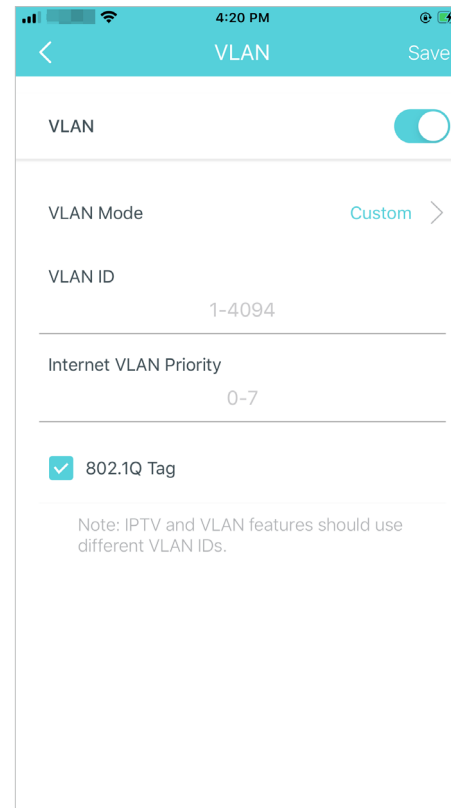
End IP

192.168.68.250

Default Gateway

192.168.68.1

Primary DNS (Optional)

Secondary DNS (Optional)

Enable VLAN mode

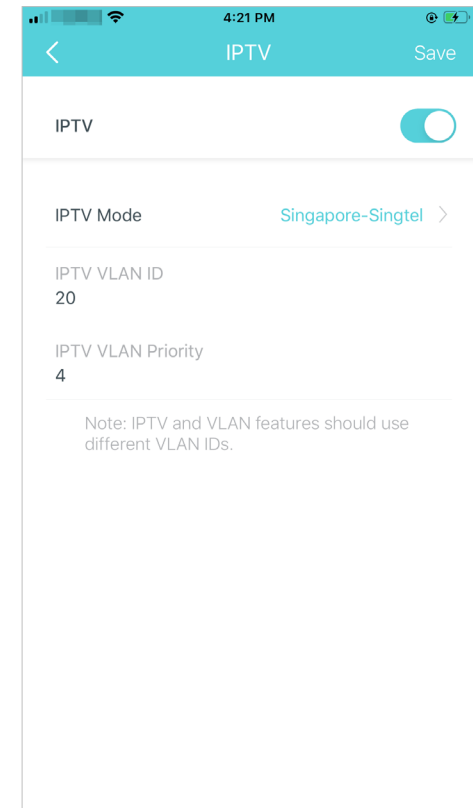|	4:20 PM	
<	VLAN	Save

VLAN ⬤

VLAN Mode Custom >

VLAN ID

1-4094

Internet VLAN Priority

0-7

☑ 802.1Q Tag

Note: IPTV and VLAN features should use different VLAN IDs.

Enable IPTV mode

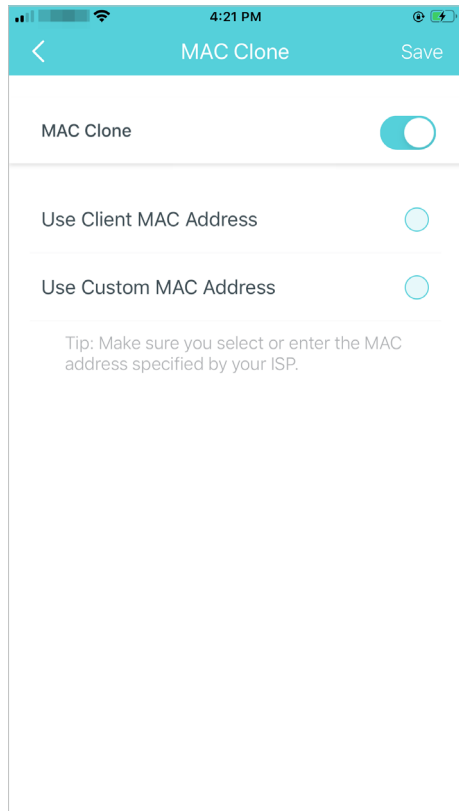|	4:21 PM	
<	IPTV	Save

IPTV ⬤

IPTV Mode Singapore-Singtel >

IPTV VLAN ID
20

IPTV VLAN Priority
4

Note: IPTV and VLAN features should use different VLAN IDs.

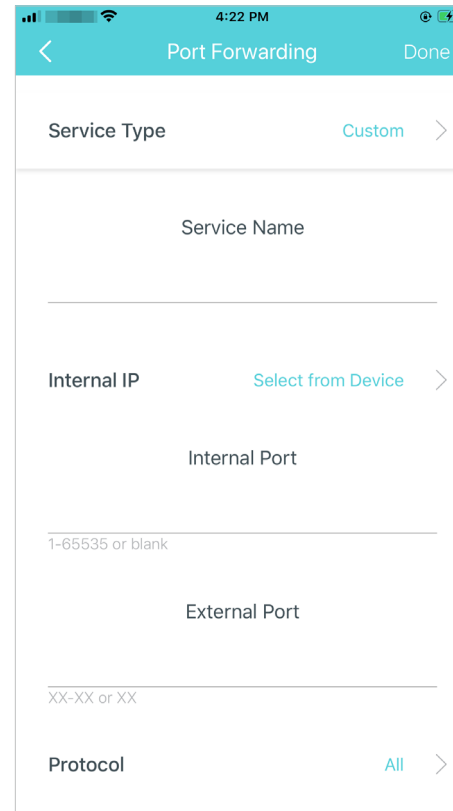**Enable MAC Clone**
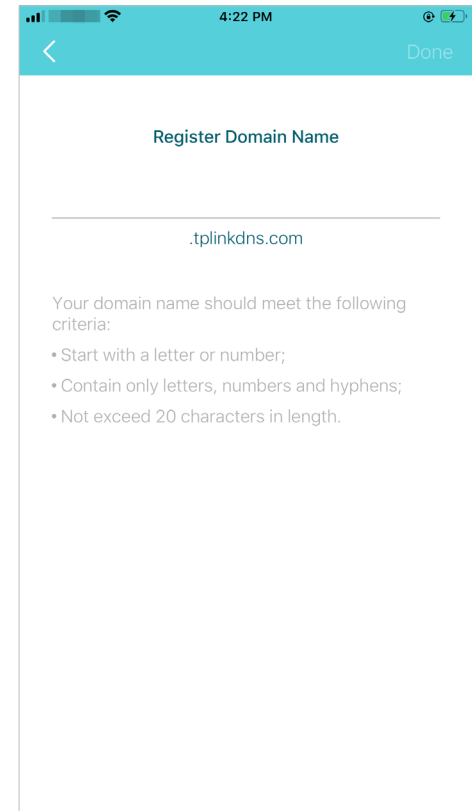
4:21 PM	
‹ MAC Clone	Save
MAC Clone	⬤
Use Client MAC Address	◯
Use Custom MAC Address	◯

Tip: Make sure you select or enter the MAC address specified by your ISP.

Reserve IP addresses for specific devices

4:22 PM		
‹	Select Device	Done(2/64)

📱 chenyi...   📱 MI6-s...

📱 **chenyindeiPhone**
IP: 192.168.68.104
MAC: 48-B8-A3-08-58-A6   ✓

📱 **MI6-speaker_123**
IP: 192.168.68.102
MAC: 4C-49-E3-ED-F9-99   ✓

📱 **TP-Link-Iphone**
IP: 192.168.68.105
MAC: FC-FC-48-95-CD-F3   ◯

📱 **tpteki-iPhone**
IP: 192.168.68.103
MAC: CC-2D-B7-42-AB-D2   ◯

Set up port forwarding rules

4:22 PM		
‹	Port Forwarding	Done

Service Type	Custom ›

Service Name

Internal IP	Select from Device ›

Internal Port

1-65535 or blank

External Port

XX-XX or XX

Protocol	All ›

Register a TP-Link DDNS domain name

4:22 PM		
‹		Done

Register Domain Name

.tplinkdns.com

Your domain name should meet the following criteria:
• Start with a letter or number;
• Contain only letters, numbers and hyphens;
• Not exceed 20 characters in length.

15

Enable SIP ALG

SIP ALG ⬤

When enabled, clients can communicate with SIP (Session Initiation Protocol) servers via NAT.

Enable Fast Roaming

Fast Roaming ⬤

Fast roaming with IEEE 802.11r allows wireless devices to switch connection to different Decos seamlessly.

Note:

1.Turning on this feature may result in some older wireless device being disconnected from the Deco Network.

2.If some devices are disconnected from Deco network after turning on/off this feature,try forgetting the Deco network on these devices and then join the network again.

Enable Beamforming

Beamforming ⬤

Beamforming concentrates Wi-Fi signal towards connected devices for stronger connections.

Enable LED controls

LED ⬤

Night Mode ⬤

Everyday, the LED will be off during this time period.

From   10:00 PM >

Until   7:00 AM >
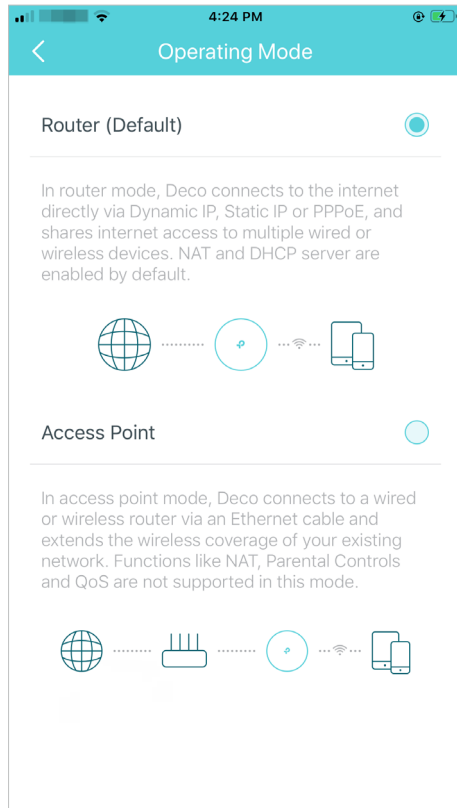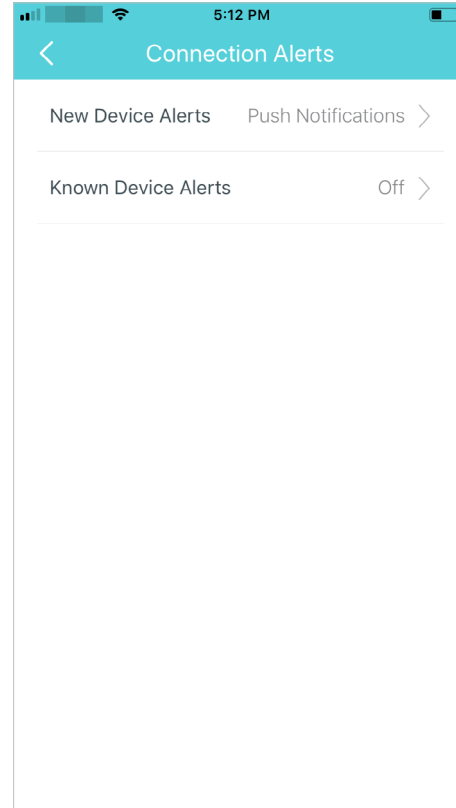
Change the operating mode

■ Note: When the Deco works in Access Point mode, advanced features such as Parental Controls, QoS, IPv4, Address Reservation, Port Forwarding, and DHCP server are not available.
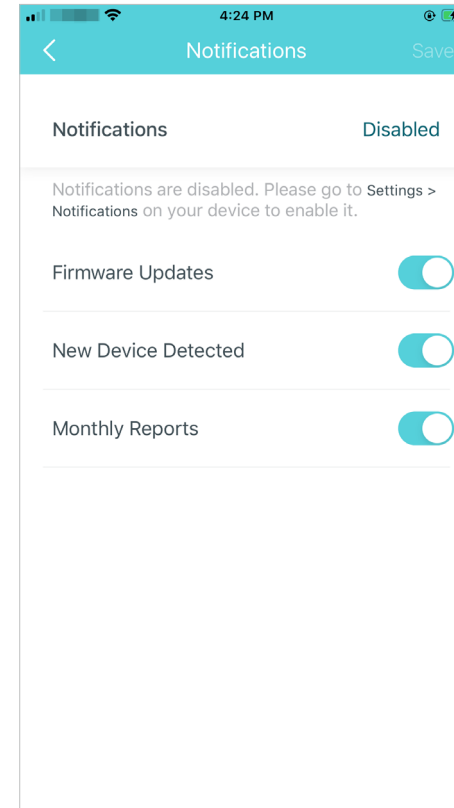

Set connection alerts
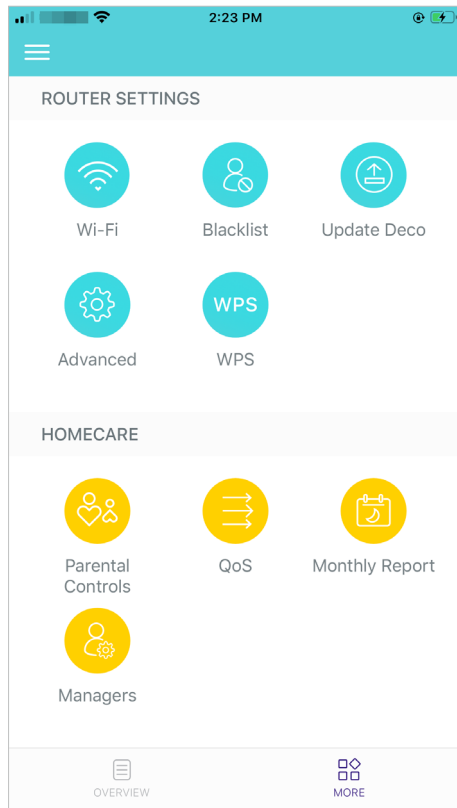

Set notifications

■ Note: If the Notifications option shows "Disabled" as below, go to Settings > Notifications on your mobile device to enable it.
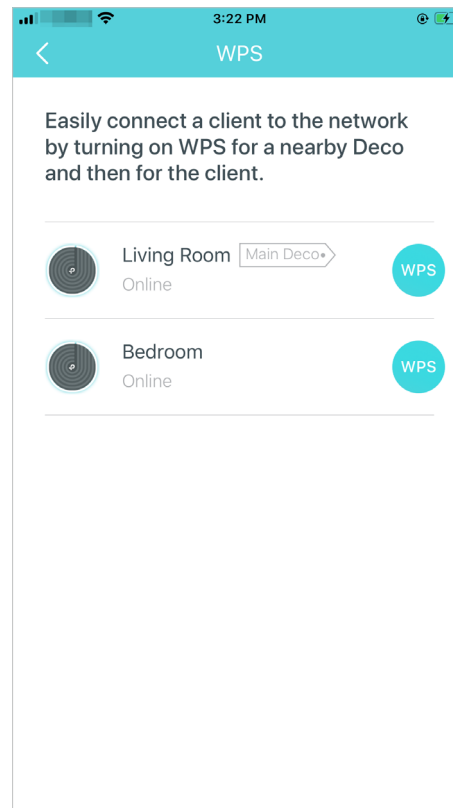
WPS

WPS (Wi-Fi Protected Setup) helps you to quickly and securely connect a client to a network with a tap without entering any password.
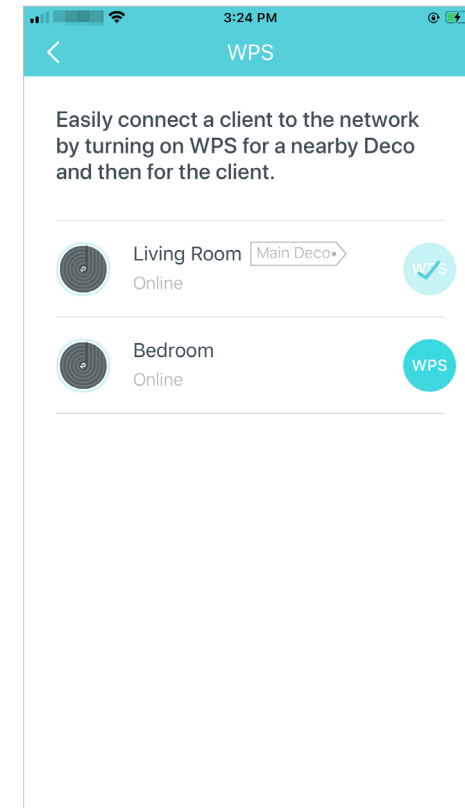
Tap ⊞ > WPS

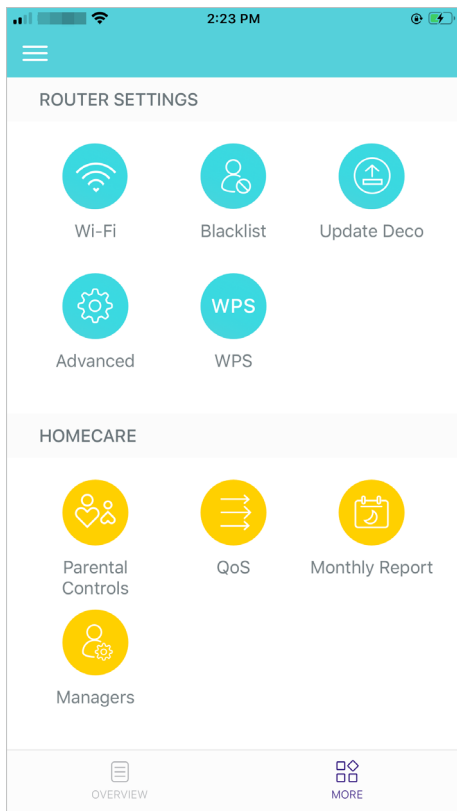Tap the WPS icon on Deco app and then on your client

Successfully connected to the network

Parental Controls

Parental Controls allow you to create profiles for family members and specify the devices that belong to them. Filter online content for your children, control when and how long they can access the internet, track the websites they visit and pause the internet if necessary.
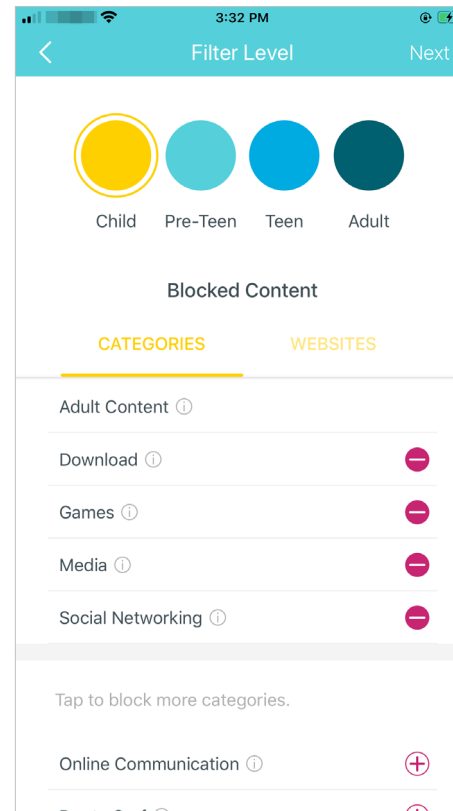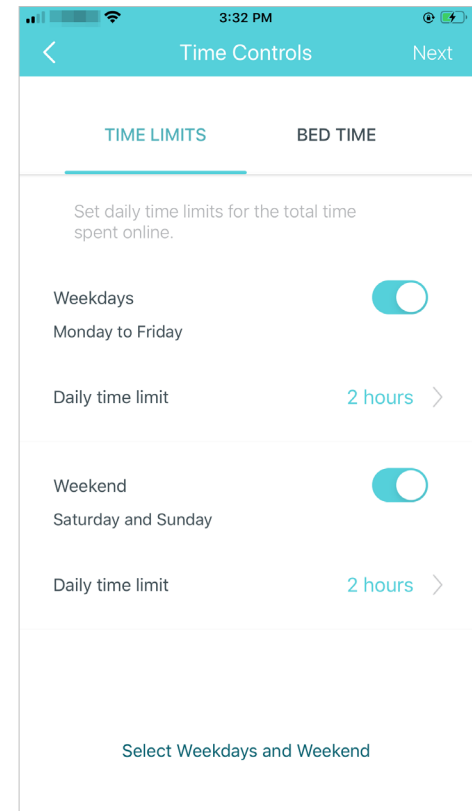
Tap ⊞ > Parental Controls

Add new profile
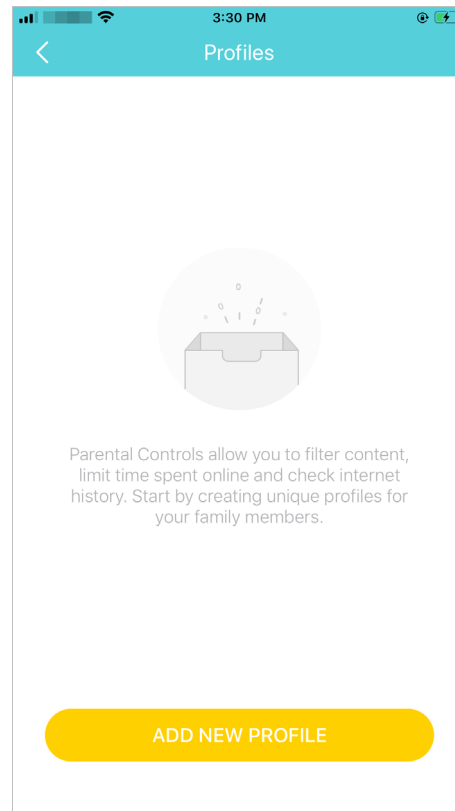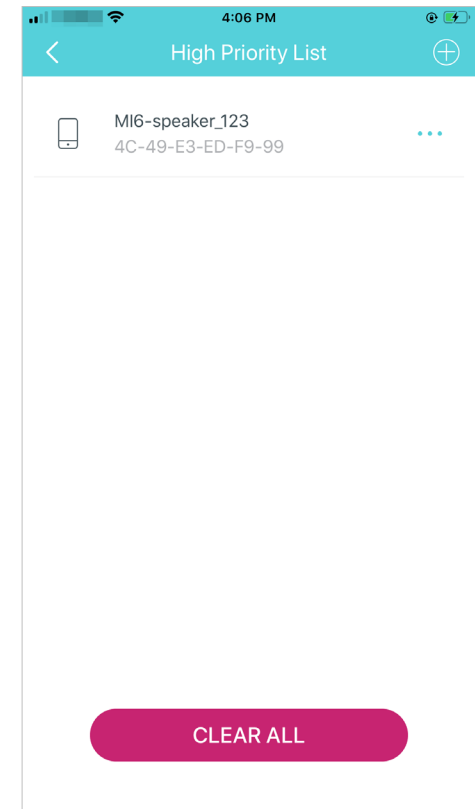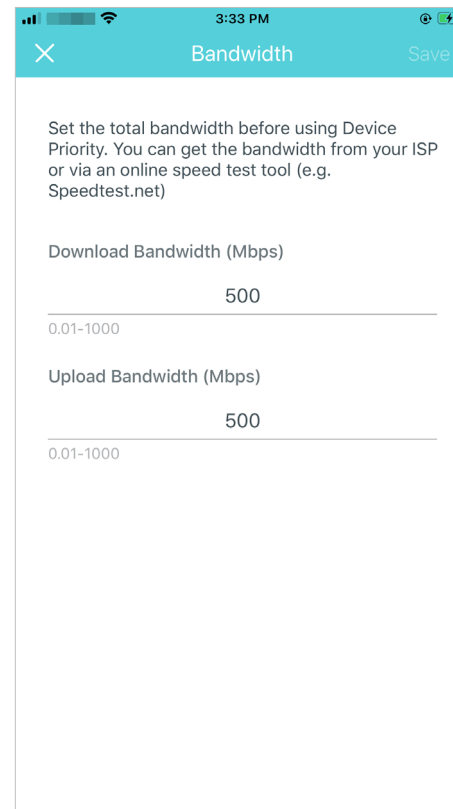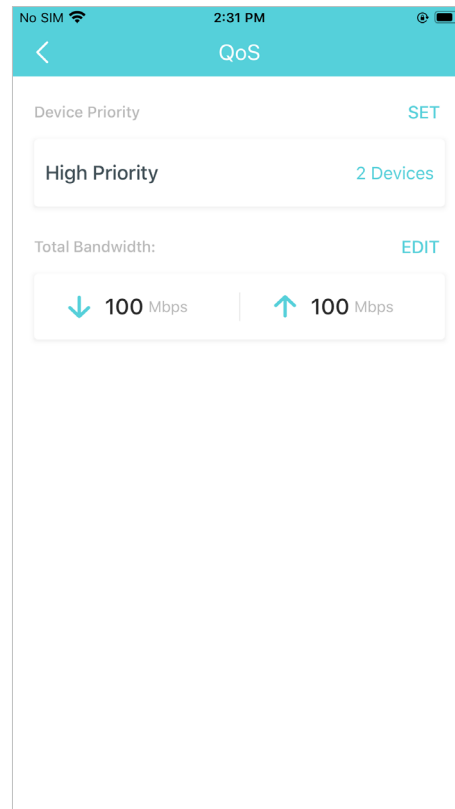
Set filter level

Set time controls

QoS

QoS (Quality of Service) helps you set priority for specific devices, so that they can perform better with lower latency. Prioritize devices to guarantee a faster network connection when you need it the most.

Tap ▣ > QoS

View current QoS status

Set a total bandwidth for the QoS feature

Add devices to high priority list

ROUTER SETTINGS

Wi-Fi

Blacklist

Update Deco

Advanced

WPS

HOMECARE

Parental Controls

QoS

Monthly Report

Managers

OVERVIEW   MORE

QoS

Device Priority   SET

High Priority   2 Devices

Total Bandwidth: EDIT

↓ **100** Mbps   ↑ **100** Mbps

Bandwidth   Save

Set the total bandwidth before using Device Priority. You can get the bandwidth from your ISP or via an online speed test tool (e.g. Speedtest.net)

Download Bandwidth (Mbps)

500

0.01-1000

Upload Bandwidth (Mbps)

500

0.01-1000

High Priority List

MI6-speaker_123
4C-49-E3-ED-F9-99

CLEAR ALL

Monthly Report

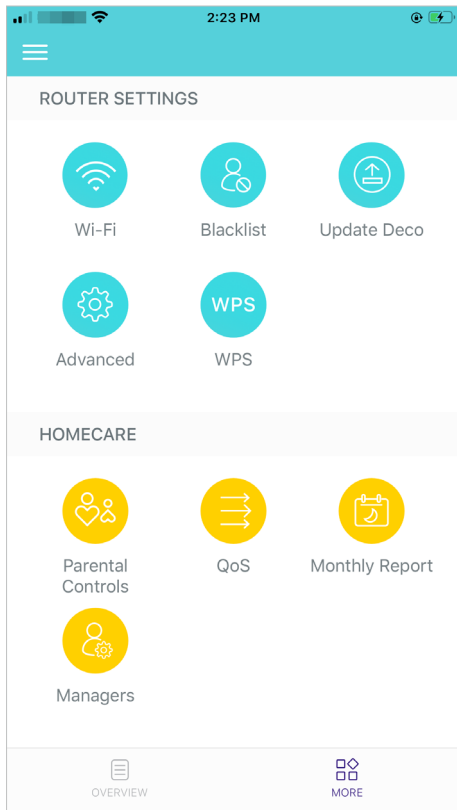Review the monthly usage statistics, such as security threats and total connected network devices each day.
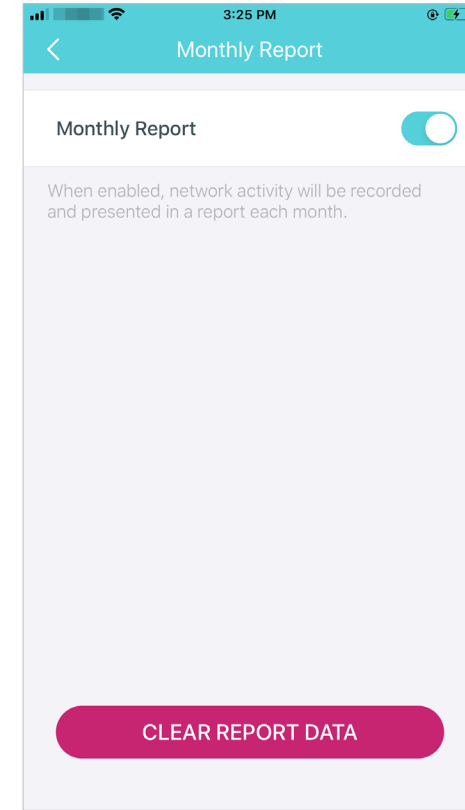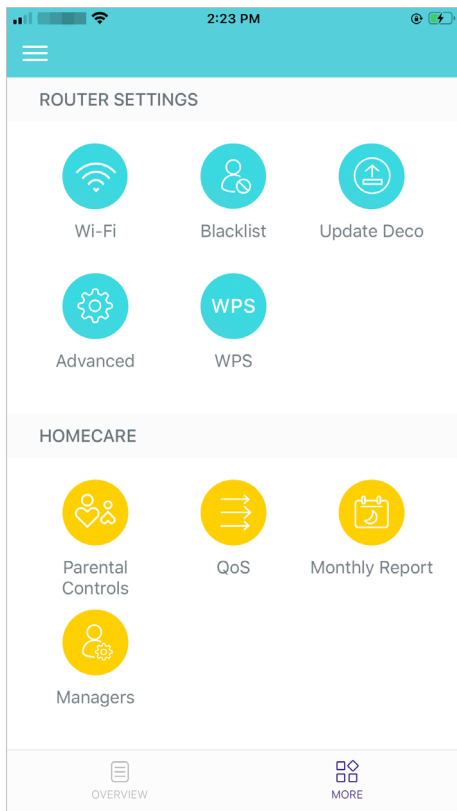
Tap ⊞ > Monthly Report

View monthly reports
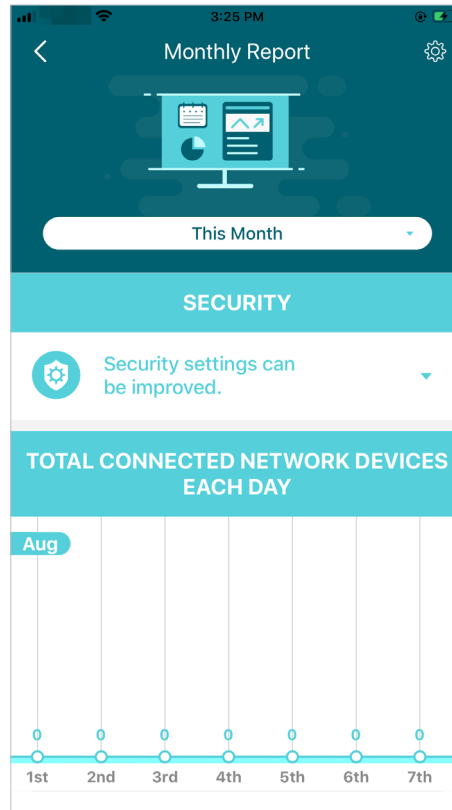
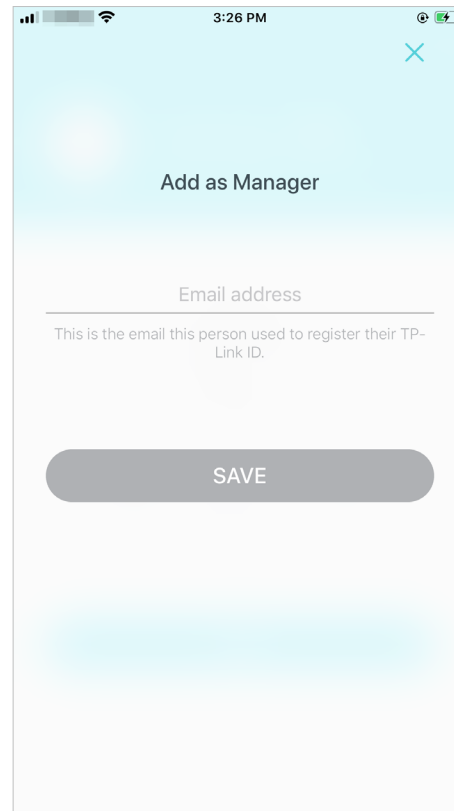Enable/disable Monthly Report and clear report data

Managers

Add friends and family members to help manage your network. Each manager should have their own TP-Link ID.
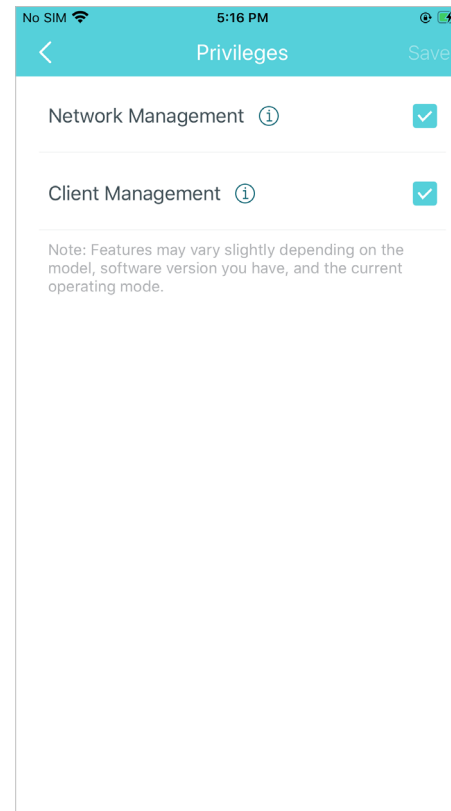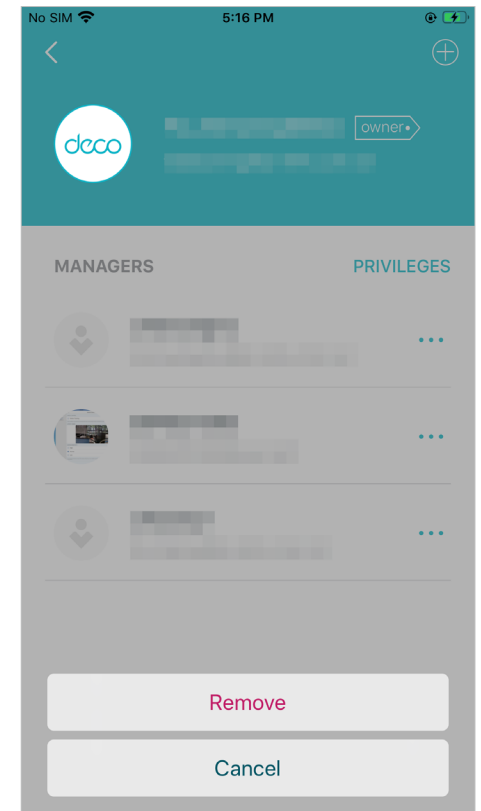
Tap ▢▢ > Managers

Add other accounts as managers

Set privileges for managers

Remove managers

Authentication

FCC Compliance Information Statement

![FCC logo]

Product Name: AC1200 + AV1000 Whole Home Powerline Mesh Wi-Fi System

Model Number: Deco P9

Responsible party:

TP-Link USA Corporation, d/b/a TP-Link North America, Inc.

Address: 145 South State College Blvd. Suite 400, Brea, CA 92821

Website: http://www.tp-link.com/us/

Tel: +1 626 333 0234

Fax: +1 909 527 6803

E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

•   Reorient or relocate the receiving antenna.

•   Increase the separation between the equipment and receiver.

•   Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

•   Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

We, **TP-Link USA Corporation**, has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

Issue Date: 2020-09-29

CE Mark Warning

CE

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

OPERATING FREQUENCY(the maximum transmitted power)

2412MHz—2483.5MHz (20dBm)

5150MHz—5250MHz (23dBm)

EU declaration of conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 2009/125/EC, 2011/65/EU and (EU)2015/863. The original EU declaration of conformity may be found at https://www.tp-link.com/en/ce

RF Exposure Information

This device meets the EU requirements (2014/53/EU Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

The device complies with RF specifications when the device used at 20 cm from your body.

Attention: This device may only be used indoors in all EU member states and EFTA countries.

AT	BE	BG	CH	CY	CZ	DE	DK
EE	EL	ES	FI	FR	HR	HU	IE
IS	IT	LI	LT	LU	LV	MT	NL
NO	PL	PT	RO	SE	SI	SK	UK

Canadian Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.

2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;

2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution:

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

Avertissement:

Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Industry Canada Statement

CAN ICES-3 (B)/NMB-3(B)

Korea Warning Statements:

해당 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice & BSMI Notice:

注意!

依據 低功率電波輻射性電機管理辦法

LP0002低功率射頻器材技術規範_章節3.8.2

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前述合法通信，指依電信管理法規定作業之無線電通信。

低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

5.7.9.1應避免影響附近雷達系統之操作。

安全諮詢及注意事項

- 請按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先切斷電源。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 不要私自拆開機殼或自行維修，如產品有故障請與原廠或代理商聯繫。

限用物質含有情況標示聲明書

設備名稱： Equipment name AC1200 + AV1000 Whole Home Powerline Mesh Wi-Fi System	型號（型式）： Type designation (Type) Deco P9					
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)

PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
電源供應器	—	○	○	○	○	○
其他及其配件	—	○	○	○	○	○

備考1. 超出0.1 wt %" 及 "超出0.01 wt %" 系指限用物質之百分比含量超出百分比含量基準值。

Note 1："Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2."○"系指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2："○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3."－" 系指該項限用物質為排除項目。

Note 3：The "－" indicates that the restricted substance corresponds to the exemption.

Продукт сертифіковано згідно с правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.

EAC

Safety Information

• Keep the device away from water, fire, humidity or hot environments.

• Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.

• Do not use the device where wireless devices are not allowed.

• Plug the powerline devices directly into the wall outlets but not the power strips.

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.

Explanation of the symbols on the product label

Symbol	Explanation
∼	AC voltage
⌂	Indoor use only
▣	Class II equipment
⚠	Caution
📖i	Operator's manual
⚡	Warning electric shock
⊟ N	Fuse is used in neutral N
♻	RECYCLING This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.