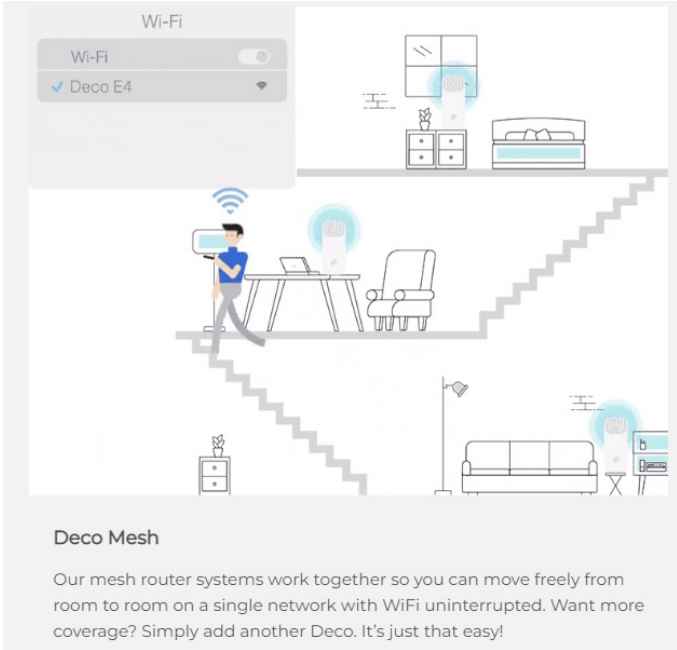


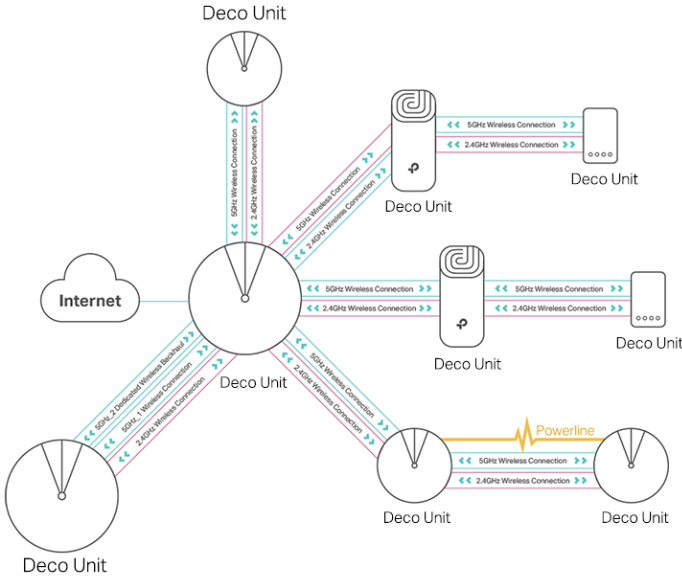
Exhibit 22

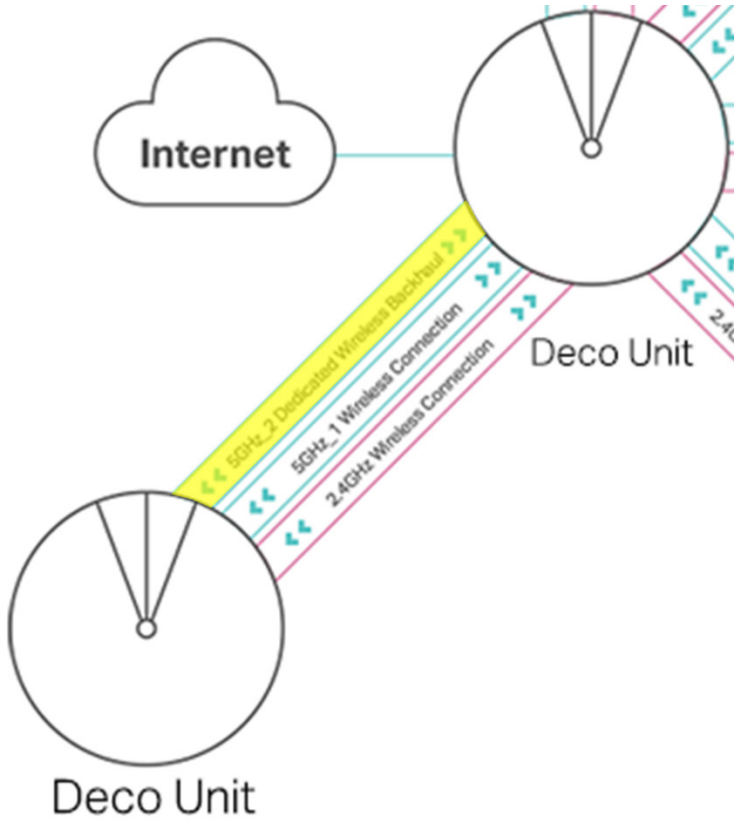
Infringement Claim Chart for Claims of United States Patent 10,278,179 (the “’179 Patent”) Based on TP-Link Deco Products

Netgear contends that at least the following claims of U.S. Patent No. 10,278,179 (the “’179 patent”) identified below are infringed by the ’179 Accused TP-Link Products, which include TP-Link Deco products supporting dedicated backhaul communication on the 5 GHz frequency band (collectively herein the “’179 Accused TP-Link Products”). The ’179 Accused TP-Link Products include, but are not limited to, TP-Link Deco M9 Plus, Deco X90, Deco X5700, Deco X68, Deco X3600, and Deco W7200. It should be understood that Netgear’s contentions are not limited to these products but instead encompass any and all reasonably similar products and components that infringe in the same or similar manner as discussed below.

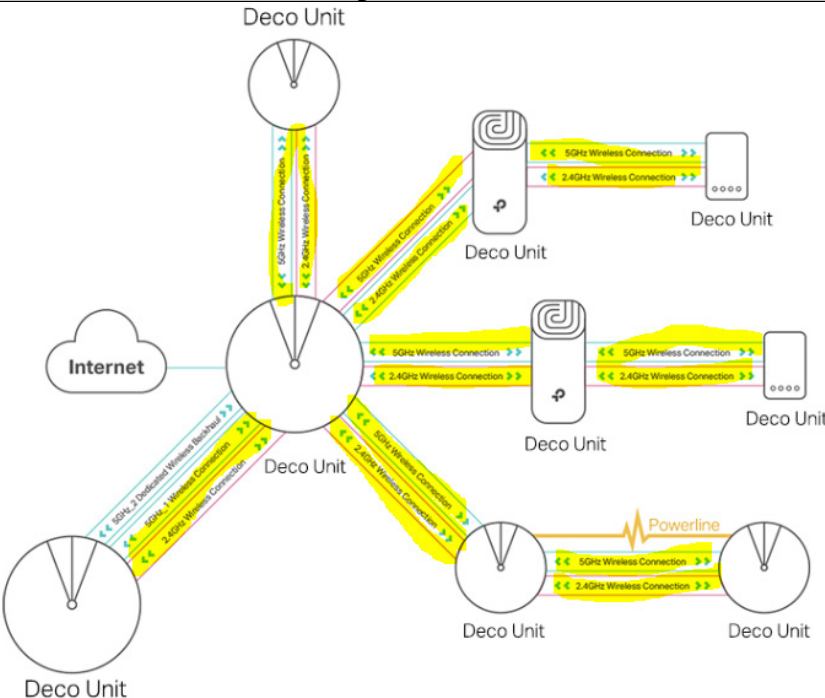
Claim Language	Representative TP-Link Products ¹
1[pre]. A computer-implemented method for implementing a dedicated backhaul in a wireless mesh network formed with one or more mesh points, the method being performed by a first mesh point and comprising:	To the extent the preamble is limiting, the '179 Accused TP-Link Products perform a computer-implemented method for implementing a dedicated backhaul in a wireless mesh network formed with one or more mesh points. For example: The '179 Accused TP-Link Products are configured to form a mesh wireless network.  Deco Mesh Our mesh router systems work together so you can move freely from room to room on a single network with WiFi uninterrupted. Want more coverage? Simply add another Deco. It's just that easy!

¹ This analysis is preliminary, and Netgear's investigation is ongoing. Netgear reserves the right to amend or supplement these charts after further investigation and discovery, claim construction, or other meriting circumstances. Such supplemental information may include, but is not limited to, source code, data sheets, design specifications, deposition testimony, testing information, reference designs implementation and utilization information, and/or schematics.

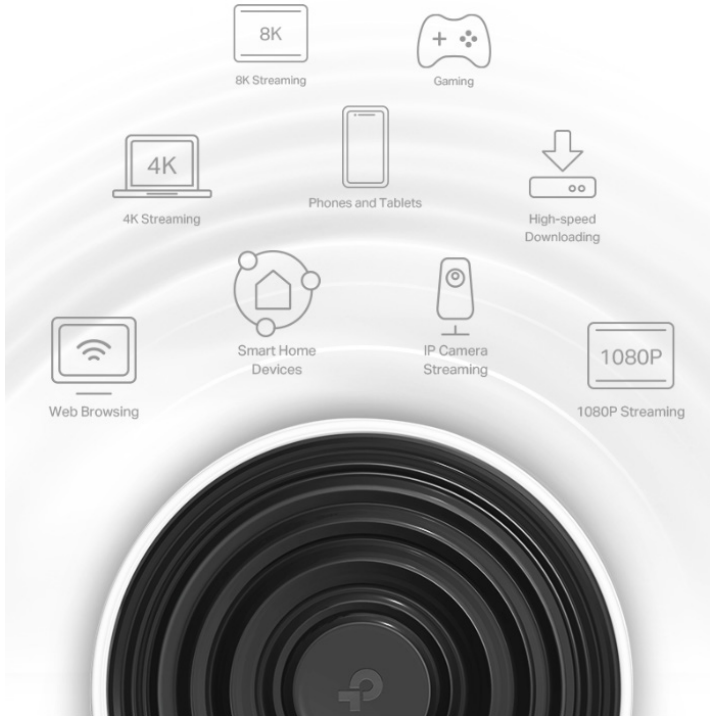
Claim Language	Representative TP-Link Products ¹
	Exhibit 32 (https://www.tp-link.com/us/deco-mesh-wifi/). How does Mesh WiFi work? Mesh uses several Deco units and TP-Link's Mesh Technology to blanket your entire home while only needing one name and password to connect. TP-Link Mesh Technology will automatically switch your devices to the best mesh node and WiFi band as you move throughout your home, so you never lose connection and your speeds stay fast. Exhibit 32 (https://www.tp-link.com/us/deco-mesh-wifi/). Behind Mesh WiFi Network Technology  Mesh WiFi works by using two or more devices or “nodes” to create a secure and strong wifi network.

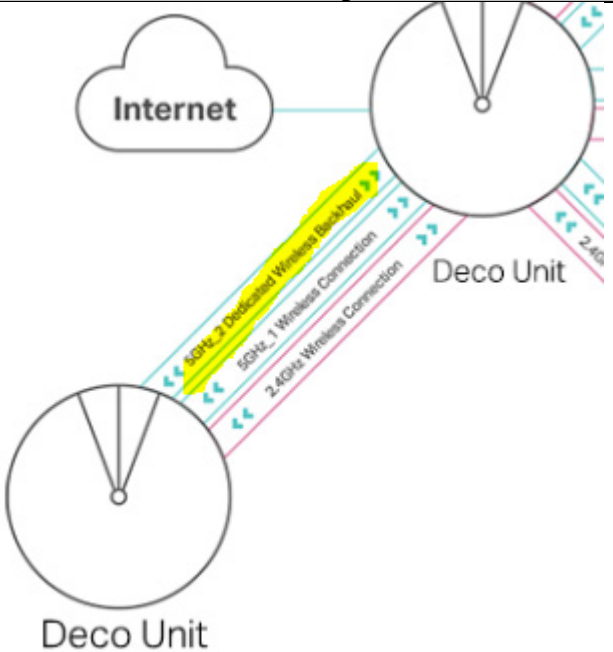
Claim Language	Representative TP-Link Products ¹
	Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/). In addition, the '179 Accused TP-Link Products are configured to implement a dedicated backhaul in a wireless mesh network formed with one or more mesh points. In particular, the '179 Accused TP-Link Products establish a dedicated backhaul communication.  Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/) (annotated).

Claim Language	Representative TP-Link Products ¹
	The '179 Accused TP-Link Products, such as TP-Link Deco X90 include “Smart Antennas” to “[e]stablish a stronger backhaul to boost coverage and improve wireless connections.” Exhibit 47 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x90/). The Deco X90 product further “[p]rovides an extra 5 GHz band working exclusively as the strong backhaul, strengthening the WiFi coverage.” Exhibit 54 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x90/#specifications).
1[a] establishing a forward wireless communication with a second mesh point;	The Accused TP Link Deco Products establish a forward wireless communication with a second mesh point. For example: The Accused TP Link Deco Products operate in a mesh network configuration which establish forward wireless communications with a second mesh point via 2.4 Ghz and 5 Ghz wireless connections.

Claim Language	Representative TP-Link Products ¹
	 Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/). Additionally, the '179 Accused TP-Link Products, such as the Deco X90, are capable of providing forward wireless data communication to multiple clients in the network using front haul links. Designed for More Devices Imbued with OFDMA and MU-MIMO technology, like virtually all TP-Link WiFi 6 products, Deco X90 is aimed at dramatically improving capacity and efficiency in traffic-dense environments. No matter how many devices are running at the same time, everyone is able to enjoy immersive streaming or gaming with no drops or buffering. Exhibit 47 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x90).

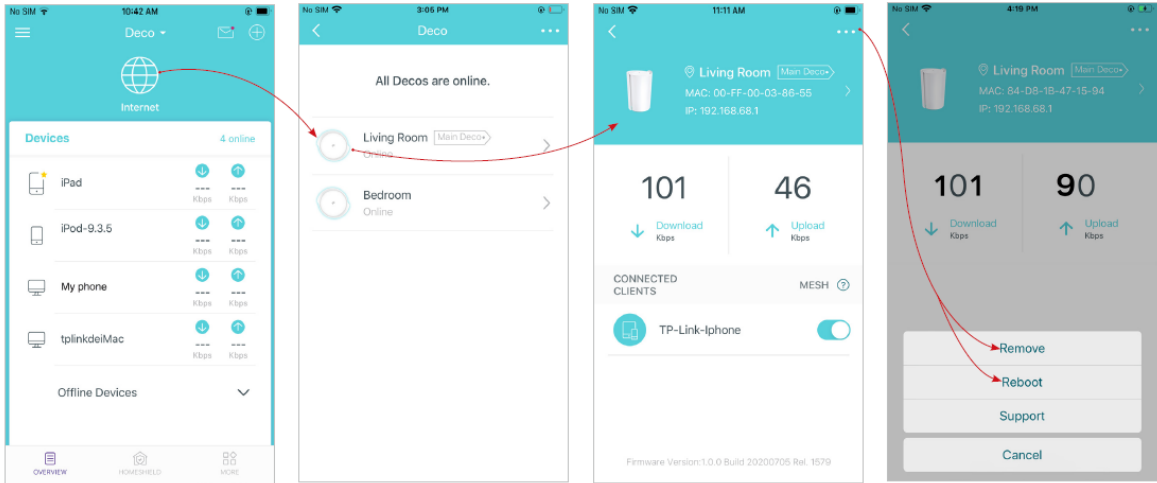
Claim Language	Representative TP-Link Products ¹
	Connections For Up To 200 Devices 720P Streaming x40 1080P Streaming x10 - High-speed Downloading x3 - Web Browsing x45 - Smart Home Devices x35 - IP Camera Streaming x20 4K Streaming x5 Exhibit 47 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x90). Engineered for More Devices No matter how many screens or devices are on at once, the newest generation of WiFi enables congestion-free connections. Exhibit 48 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-xe75/#overview).

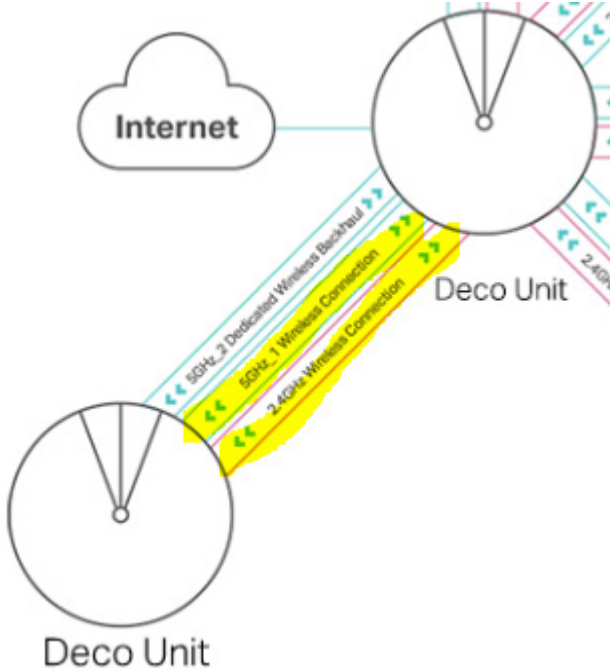
Claim Language	Representative TP-Link Products ¹
	Connect up to 200 Devices  Exhibit 48 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-xe75/#overview).
1[b] establishing a backhaul communication, separate from the forward wireless communication, with the second mesh point,	The Accused TP Link Deco Products establish a backhaul communication, separate from the forward wireless communication, with the second mesh point. For example: The '179 Accused TP-Link Products, such as TP-Link Deco X90, utilize one or more channels in the 5GHz-2 frequency band as a dedicated backhaul to communicate with another Deco product in the mesh network.

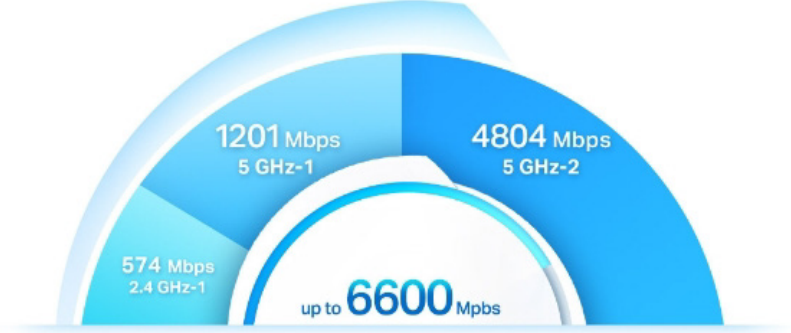
Claim Language	Representative TP-Link Products ¹
	 The diagram illustrates a mesh network topology. At the top left is a cloud icon labeled "Internet". To its right is a circle labeled "Deco Unit". Below the top Deco Unit is another circle labeled "Deco Unit". Three colored arrows connect the two Deco Units: a yellow arrow labeled "5GHz 2 Dedicated Wireless Backhaul", a light blue arrow labeled "5GHz 1 Wireless Connection", and a pink arrow labeled "2.4GHz Wireless Connection". The top Deco Unit also has several arrows pointing outwards, with one labeled "2.4GHz". Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/) (annotated). Additionally, the '179 Accused TP-Link Products, such as the Deco X90, are capable of establishing a backhaul communication, separate from the forward wireless communication, with the second mesh point.

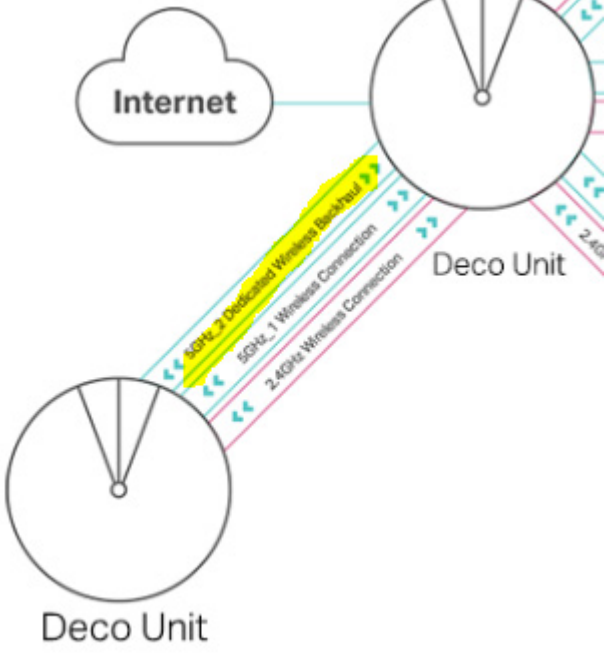
Claim Language	Representative TP-Link Products ¹
	 Exhibit 47 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x90). Furthermore, the '179 Accused TP-Link Products can be managed remotely with the TP-Link Deco App. Because the '179 Accused TP-Link Products communicate with each other via dedicated backhails, the management functions, data, and/or commands are also communicated using the dedicated backhails. The dedicated backhails are “working exclusively” to communicate data between the '179 Accused TP-Link Products, which are separate from said front haul communications described above. Exhibit 54 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x90/#specifications); <i>see also</i> Exhibit 48 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-xe75/#overview).

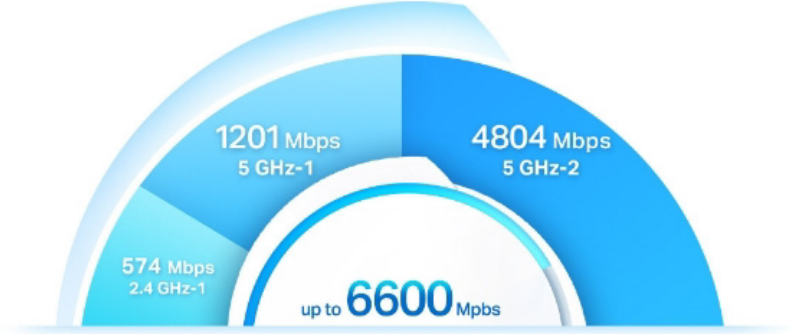
Claim Language	Representative TP-Link Products ¹
	 Easy Setup by Deco App Easily set up Decos and find the ideal spot to place each unit · Auto Connection Test – Test the internet connection of your Decos and helps to identify a suitable location for them · Remote Management – Manage your Deco network from a smartphone or tablet via the app, no matter where you find yourself · Online Upgrade – Keep informed of the latest firmware updates Exhibit 49 [Deco X90 Datasheet] at 3 (https://static.tp-link.com/2020/202010/20201021/Deco%20X90%201.0_Datasheet.pdf); <i>see also, e.g.</i>, Exhibit 51 [Deco XE75 Datasheet] at 3 (https://static.tp-link.com/upload/product-overview/2022/202211/20221104/Deco%20XE75(EU&US)_2.0.pdf). After created a Deco network, you can add more Deco units into the network to expand the Wi-Fi coverage, and <u>manage them conveniently on your Deco app</u>. Exhibit 50 [Deco X90 User Guide] at 6 (https://static.tp-link.com/2020/202011/20201126/1910012843_Deco%20X90&Deco%20X5700_UG_V1.pdf); <i>see also, e.g.</i>, Exhibit 52 [Deco XE75 User Guide] at 9 (https://static.tp-link.com/upload/manual/2022/202210/20221013/1910013233_Deco%20XE75_User%20Guide_REV_2.0.0.pdf). For example, the '179 Accused TP-Link Products can be remotely rebooted via the TP-Link Deco App, where the reboot command is communicated to the Deco product via a dedicated backhaul.

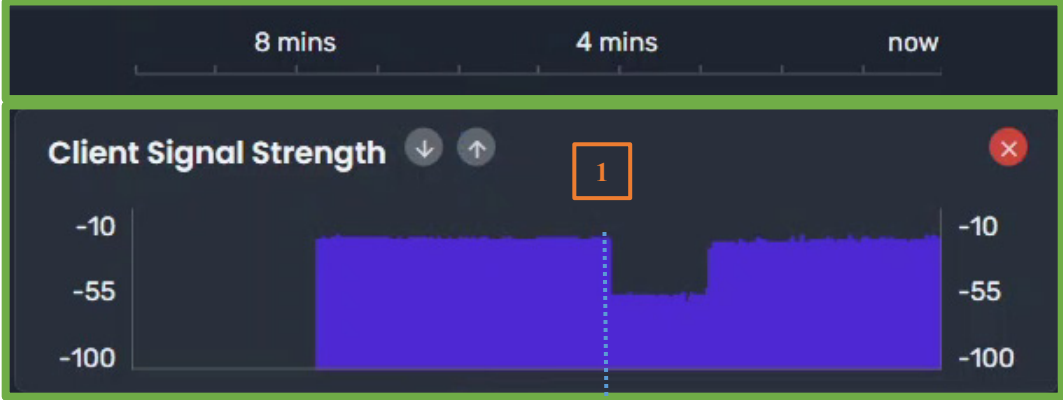
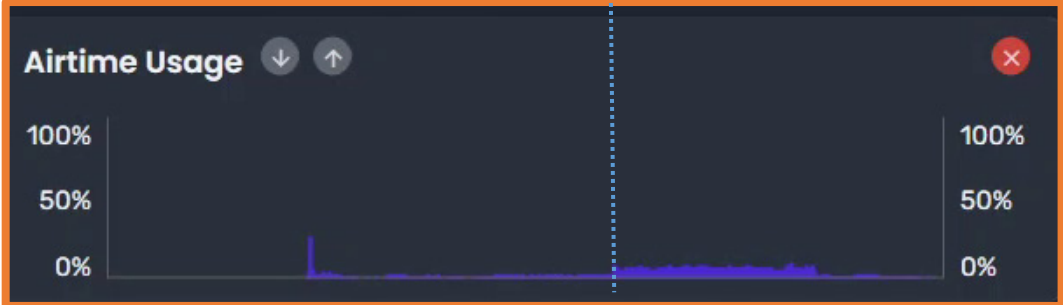
Claim Language	Representative TP-Link Products ¹
	Remove/Reboot Deco You can remove or reboot your Deco easily on the Deco app. Follow the steps below. Tap  to check all Deco's status Tap a Deco unit to enter the details Tap  to remove or reboot the Deco Note: If the LED light of Deco does not turn pulsing blue after tapping Remove, refer to Appearance to use the reset button to reset it.  Exhibit 50 [Deco X90 User Guide] at 13 (https://static.tp-link.com/2020/202011/20201126/1910012843_Deco%20X90&Deco%20X5700_UG_V1.pdf); <i>see also, e.g.</i>, Exhibit 52 [Deco XE75 User Guide] at 11 (https://static.tp-link.com/upload/manual/2022/202210/20221013/1910013233_Deco%20XE75_User%20Guide_REV_2.0.0.pdf), Exhibit 58 (https://community.tp-link.com/en/home/kb/detail/412594). The '179 Accused TP-Link Products, such as TP-Link Deco X90 include “Smart Antennas” to “[e]stablish a stronger backhaul to boost coverage and improve wireless connections.” Exhibit 47 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x90/). The Deco X90 product further “[p]rovides an extra 5 GHz band working exclusively as the strong backhaul, strengthening

Claim Language	Representative TP-Link Products ¹
	the WiFi coverage.” Exhibit 54 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x90/#specifications).
1[c] wherein the forward wireless communication is established using a wireless communication technology using frequency bands selected from the group consisting of: a 2.4 GHz band, and a 5 GHz band, and	The '179 Accused TP-Link Products utilize a forward wireless communication which is established using a wireless communication technology using frequency bands selected from the group consisting of: a 2.4 Ghz band and a 5 Ghz band. For example: As mentioned above, the '179 Accused TP-Link Products utilize channels in the 2.4 Ghz and 5 Ghz frequency bands to establish forward wireless communication.  The diagram illustrates a mesh network topology. At the top left, a cloud icon labeled 'Internet' is connected to a 'Deco Unit' (represented by a circle with three internal lines). This unit is connected to a second 'Deco Unit' (also a circle with three internal lines) located at the bottom left. The connection between the two units is shown as a series of three overlapping, curved arrows pointing from the top unit to the bottom unit. The top arrow is light blue and labeled '5GHz_2 Dedicated Wireless Backhaul'. The middle arrow is yellow and labeled '5GHz_1 Wireless Connection'. The bottom arrow is yellow and labeled '2.4GHz Wireless Connection'. Both the top and bottom units have additional colored lines (pink, green, blue) extending from their right sides, representing wireless coverage areas.

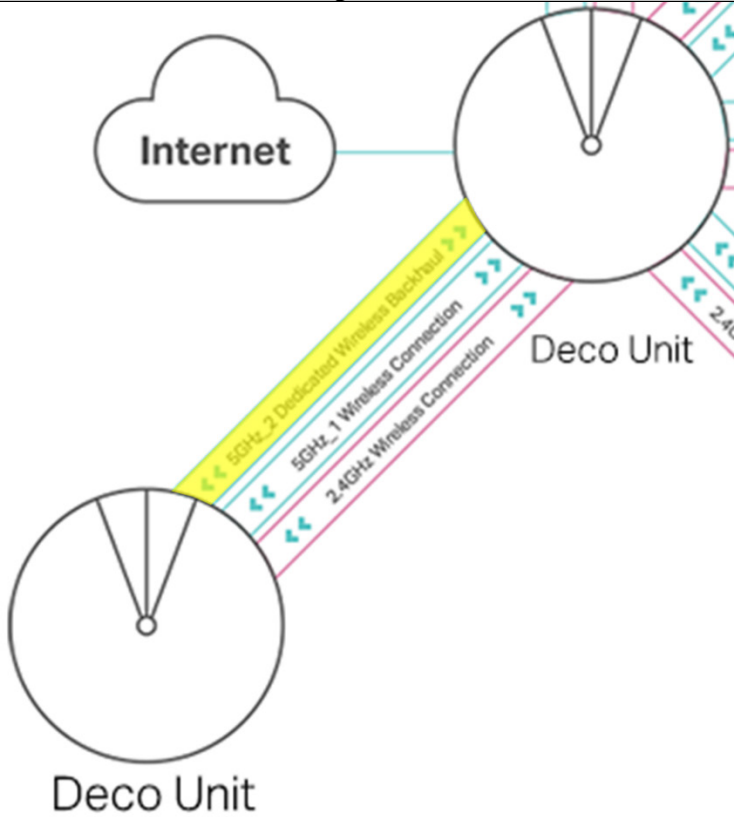
Claim Language	Representative TP-Link Products ¹
	Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/). Furthermore, the TP Link Deco X90 specifies its functionality of using a 2.4 Ghz-1, 5 Ghz-1, and 5 Ghz-2 bands for forward wireless communication speeds of up to 6600 Mbps.  Exhibit 47 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x90/).
1[d] wherein the backhaul communication is established using a communication technology selected from the group consisting of: a power line based communication, a 2.4 GHz or 5 GHz radio frequency (RF) technology using a dedicated radio, and a sub-1GHz RF technology; and	The '179 Accused TP-Link Products establish a backhaul communication using a communication technology selected from the group consisting of: a power line based communication, a 2.4 Ghz or 5 Ghz radio frequency (RF) technology using a dedicated radio, and a sub-1GHz RF technology. For example: The '179 Accused TP-Link Products, such as TP-Link Deco X90, “[p]rovide[] an extra 5 GHz band working exclusively as the strong backhaul, strengthening the WiFi coverage.” Exhibit 54 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x90/#specifications).

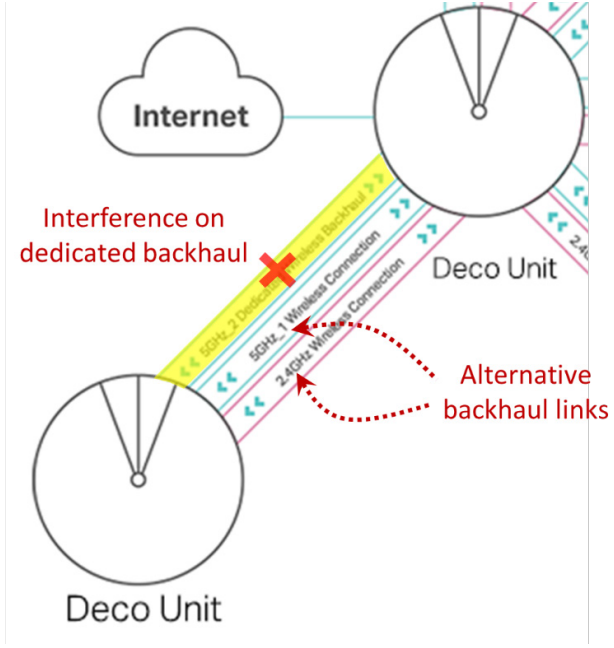
Claim Language	Representative TP-Link Products ¹
	 The diagram illustrates a mesh network topology. At the top left, a cloud icon is labeled "Internet". A line connects it to a "Deco Unit" (represented by a circle with three internal lines) at the top right. Below this unit is another "Deco Unit" (represented by a circle with three internal lines). Three colored lines with arrows connect the two Deco Units: a yellow line labeled "5GHz 2 Dedicated Wireless Backhaul", a light blue line labeled "5GHz 1 Wireless Connection", and a pink line labeled "2.4GHz 1 Wireless Connection". The top right Deco Unit also has several lines radiating from it, with one labeled "2.4GHz". Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/).

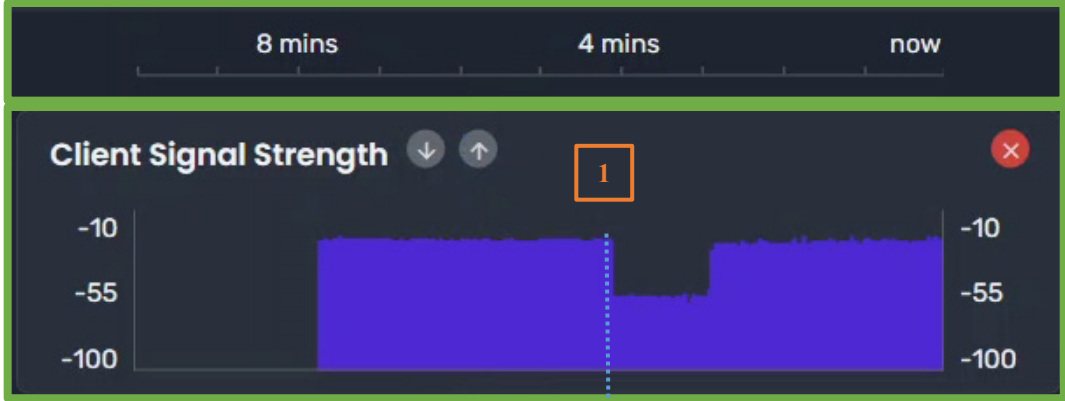
Claim Language	Representative TP-Link Products ¹
	 Exhibit 47 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x90/).
1[e] constructing a list of backhaul candidates, each backhaul candidate having a score indicative of an estimated quality of a potential link between the first mesh point and the second mesh point;	The '179 Accused TP-Link Products construct a list of backhaul candidates, each backhaul candidate having a score indicative of an estimated quality of a potential link between the first mesh point and the second mesh point. For example: As discussed above, the '179 Accused TP-Link Products, such as TP-Link Deco X90, utilize a channel in the 5 Ghz frequency band for default backhaul communications. Testing of the '179 Accused TP-Link Products confirms the behavior of selecting an alternative backhaul channel from the available candidates when the dedicated backhaul experiences interference. Upon detecting the received signal strength is below a threshold, the '179 Accused TP-Link Products will if necessary automatically utilize a different channel for backhaul communications from the list of candidates available to the products. When the signal strength of the 5GHz dedicated backhaul connections falls, indicated with the number 1 below, the '179 Accused TP-Link Products, such as the TP-Link Deco X90, will use an alternative backhaul connection, such as the 2.4GHz backhaul connection, to communicate between mesh access points in response to the reduced signal strength on the 5GHz backhaul connection. The use of this alternative backhaul can be seen based on the increase in airtime usage on the 2.4GHz band in the testing example below.

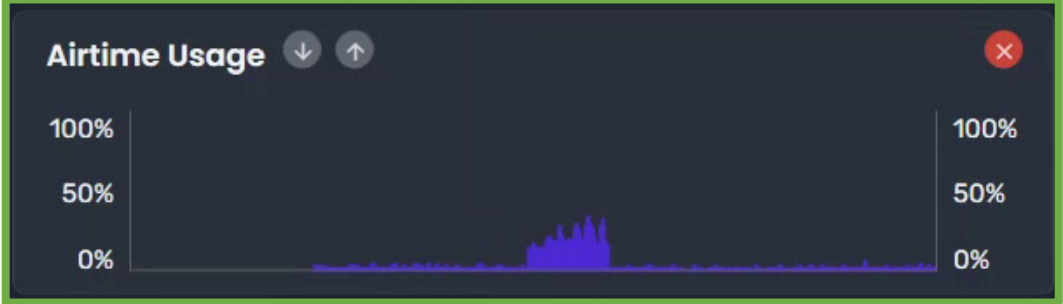
Claim Language	Representative TP-Link Products ¹
	 The screenshot shows a 'Client Signal Strength' graph with a time axis from 8 mins to now. The y-axis ranges from -10 to -100. A blue area represents the signal strength, which drops sharply at the 4-minute mark. A red 'X' icon is in the top right corner. A red box labeled '1' highlights the drop. 5GHz Signal Strength  The screenshot shows a '5GHz Airtime Usage' graph with a time axis from 8 mins to now. The y-axis ranges from 0% to 100%. A blue area represents the airtime usage, which spikes sharply at the 4-minute mark. A red 'X' icon is in the top right corner. 5GHz Airtime Usage  The screenshot shows a '2.4GHz Airtime Usage' graph with a time axis from 8 mins to now. The y-axis ranges from 0% to 100%. A blue area represents the airtime usage, which spikes sharply at the 4-minute mark. A red 'X' icon is in the top right corner. 2.4GHz Airtime Usage

Claim Language	Representative TP-Link Products ¹
	Testing of a TP-Link Deco X90 Mesh System.
1[f] upon determining that a quality of service of the dedicated backhaul has dropped to below a predetermined threshold, establishing an alternative backhaul communication with the second mesh point using a backhaul candidate with the highest score on the list.	The '179 Accused TP-Link Products, upon determining that a quality of service of the dedicated backhaul has dropped to below a predetermined threshold, establish an alternative backhaul communication with the second mesh point using a backhaul candidate with the highest score on the list. For example: As mentioned above, the '179 Accused TP-Link Products, such as Deco X90 utilizes channels in the 5GHz-2 frequency band for backhaul communication.

Claim Language	Representative TP-Link Products ¹
	 The diagram illustrates a TP-Link Deco mesh network. At the top, a cloud labeled 'Internet' is connected to a 'Deco Unit' (represented by a circle with three antenna-like lines). This unit then connects to a second 'Deco Unit' below it. The connection between the two units is shown as three parallel lines with arrows, labeled from top to bottom: '5GHz_2 Dedicated Wireless Backhaul' (yellow), '5GHz_1 Wireless Connection' (blue), and '2.4GHz Wireless Connection' (pink). The second Deco Unit also has three antenna-like lines extending from it. Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/) (annotated). Question: Which 5ghz band is used for backhaul? 1802 mbps or 1201 mbps? Answer: 5GHz 2, the 1201 Mbps is the dedicated backhaul. However, like our other tri-band Deco products if needed the system will use the other bands to send backhaul data as well. By TP-LINK Support Force MANUFACTURER on July 7, 2021

Claim Language	Representative TP-Link Products ¹
	Exhibit 56 (https://www.amazon.com/TP-Link-AX6600-Deco-Tri-Band-X90/dp/B08Z2XXFFW?th=1). Furthermore, TP-Link has stated that the products “will use the other bands to send backhaul data as well.” Exhibit 56 (https://www.amazon.com/TP-Link-AX6600-Deco-Tri-Band-X90/dp/B08Z2XXFFW?th=1). In particular, TP-Link has stated that “Deco units work dynamically to find the least congested band” or to switch away from a backhaul channel that “has interference” to “send the [backhaul] data.” Exhibit 59 (https://community.tp-link.com/us/home/forum/topic/184798). When the dedicated backhaul becomes congested and/or experiences interference, the Accused Deco WiFi 6 Products, such as Deco X90, detect that the received signal strength falls below a threshold, causing the product to dynamically choose the 5GHz-1 band or the 2.4GHz band to communicate backhaul data, as shown below. 

Claim Language	Representative TP-Link Products ¹
	Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/) (annotated). For example, as discussed above, when the signal strength of the 5GHz dedicated backhaul connections falls, indicated with the number 1 below, the '179 Accused TP-Link Products, such as the TP-Link Deco X90, will use an alternative backhaul connection, such as the 2.4GHz backhaul connection, to communicate between mesh access points in response to the reduced signal strength on the 5GHz backhaul connection. The use of this alternative backhaul can be seen based on the increase in airtime usage on the 2.4GHz band in the testing example below. Other than the 5GHz-high frequency band, the Deco products could utilize either the 5GHz-low band or the 2.4GHz band for communicating backhaul data. However, because the 5GHz-low band was used by the wireless client devices, the Deco nodes selected the 2.4GHz band as it was not as congested as the 5GHz-low band. In other words, the 2.4GHz band had the highest score among the backhaul candidates.  5GHz Signal Strength

Claim Language	Representative TP-Link Products ¹
	 5GHz Airtime Usage  2.4GHz Airtime Usage Testing of a TP-Link Deco X90 Mesh System.
[11pre] A computing device comprising: one or more processors, that implements a mesh point in a wireless mesh network formed with a plurality of mesh points, the computing device being configured to perform a method comprising:	To the extent the preamble is limiting, the '179 Accused TP-Link Products are computing devices that implement a mesh point in a wireless mesh networks formed with a plurality of mesh points. For example: As demonstrated above with respect to claim element 1[pre], '179 Accused TP-Link Products comprise a computing device that implements a mesh point in a wireless mesh network formed with a plurality of mesh points. The '179 Accused TP-Link Products, such as the TP-Link Deco X90, contain a processor that implements a mesh point in the wireless mesh network. For example, the Deco X90 product

Claim Language	Representative TP-Link Products ¹
	contain a network controller to execute various software functions, including implementing a mesh network between a plurality of mesh access points. Software · Working Mode: Router, Access Point · WAN Type: Dynamic IP/Static IP/PPPoE/L2TP/PPTP · DHCP: Server · Protocols: Supports IPv4 and IPv6 · Guest Network: 2.4 GHz Guest Network×1, 5 GHz Guest Network×1 · Features: TP-Link HomeShield, AI-Driven Mesh, BSS Color, OFDMA, 1024-QAM, MU-MIMO, Optional Ethernet Backhaul, Assisted Setup, Address Reservation, Port Forwarding, TP-Link DDNS, IPTV, IPv6, Firewall Rules, LED Control · Management: Local Management; Remote Management; Multi-Managers Exhibit 49 at 4 (https://static.tp-link.com/2020/202010/20201021/Deco%20X90%201.0_Datasheet.pdf); <i>see also, e.g.</i>, Exhibit 51 at 4 (https://static.tp-link.com/upload/product-overview/2022/202211/20221104/Deco%20XE75(EU&US)_2.0.pdf).
[11a] establishing a forward wireless communication with a second mesh point;	See discussion regarding claim element [1a].
[11b] establishing a backhaul communication, separate from the forward wireless communication,	See discussion regarding claim element [1b].

Claim Language	Representative TP-Link Products ¹
with the second mesh point,	
[11c] wherein the forward wireless communication is established using a wireless communication technology using frequency bands selected from the group consisting of: a 2.4 GHz band, and a 5 GHz band, and	<i>See discussion regarding claim element [1c].</i>
[11d] wherein the backhaul communication is established using a communication technology selected from the group consisting of: a power line based communication, a 2.4 GHz or 5 GHz radio frequency (RF) technology using a dedicated radio, and a sub-1GHz RF technology; and	<i>See discussion regarding claim element [1d].</i>
[11e] constructing a list of backhaul candidates, each backhaul candidate having a score indicative of an estimated quality of a potential link between the first mesh point and the second mesh point;	<i>See discussion regarding claim element [1e].</i>

Claim Language	Representative TP-Link Products ¹
[11f] upon determining that a quality of service of the established backhaul has dropped to below a predetermined threshold, establishing an alternative backhaul communication with the second mesh point using a backhaul candidate with the highest score on the list.	<i>See discussion regarding claim element [1f].</i>