

EXHIBIT 23

Infringement Claim Chart for Claims of U.S. Patent No. 9,468,025 Based on TP-Link Deco Products

Netgear contends that at least the following claims of U.S. Patent No. 9,468,025 (the “’025 patent”) identified below are infringed by the ’025 Accused TP-Link Products, which include TP-Link Deco WiFi 6, WiFi 6E, and WiFi 7 products supporting TP-Link’s Deco Mesh feature, and TP-Link Omada products supporting TP-Link’s Mesh feature (collectively herein the “’025 Accused TP-Link Products”). The ’025 Accused TP-Link Products include, but are not limited to, TP-Link Deco BE95, Deco BE65, Deco BE85, Deco E3, Deco M3W, Deco M4, Deco M5, Deco M9 Plus, Deco PX50, Deco P9, Deco W2400, Deco W3600, Deco W6000, Deco W7200, Deco X20, Deco XE200, Deco XE75, Deco XE75 Pro, Deco XE5300, Deco X60, Deco X25, Deco X90, Deco X5700, Deco X68, Deco X5400 Pro, Deco X4300 Pro, Deco X3600, Deco X50-Outdoor, Deco X50-PoE, Deco X55, Deco S4, Deco X80-5G; and TP-Link Omada EAP690E HD, Omada EAP670, Omada EAP660, Omada EAP653, Omada EAP650, Omada EAP620, Omada EAP615, Omada EAP610, Omada EAP265, Omada EAP245, Omada EAP235, Omada EAP225, and Omada EAP115. 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.

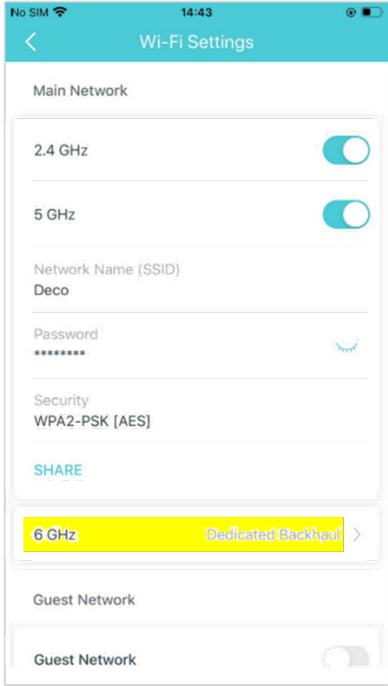
Claim Language	Representative TP-Link Products ¹
1[pre]. A gateway router configured to facilitate wireless connection management in an extended wireless network, comprising:	To the extent the preamble is limiting, the '025 Accused TP-Link Products form a network that includes a gateway router configured to facilitate wireless connection management in an extended wireless network. For example: The '025 Accused TP-Link Products can be configured as gateway routers that facilitate wireless connection management in a mesh network, or an extended wireless network. In the example below, a mesh network is formed with a number of Deco nodes, with the Deco node highlighted in yellow configured as a gateway router.

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 53 (https://www.tp-link.com/us/mesh-wifi/) (annotated). Mesh WiFi works by using two or more devices or “nodes” to create a secure and strong wifi network. These nodes are important in efficiently delivering WiFi, as each node serves as a “daisy chain” for other nodes in the system. Even nodes that are furthest from the router can still deliver a strong signal. Nodes communicate with one another in order to determine the fastest band for your devices, and to reroute traffic in the event that one node fails with its self-healing technology.

Claim Language	Representative TP-Link Products ¹
	Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/). Further, when configured as a mesh network, the '025 Accused TP-Link Products “communicate with each other to generate various signal transmission paths” and “find[] the path with the least interference according to the load status of each router node or the current frequency band,” which “guarantees you’re always getting the fastest possible speeds.” Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/). To maintain optimal connections to the Internet, the '025 Accused TP-Link Products configured as gateway routers facilitate wireless connection management. 2. Adaptive Routing Mesh networks allow router nodes to communicate with each other to generate various signal transmission paths. Adaptive Routing finds the path with the least interference according to the load status of each router node or the current frequency band. This guarantees you're always getting the fastest possible speeds. Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/).
1[a] a network device input connected at least indirectly to an internal network and configured to communicate a plurality of data packets to and from at least one computer system;	The '025 Accused TP-Link Products configured as gateway routers include a network device input connected at least indirectly to an internal network and configured to communicate a plurality of data packets to and from at least one computer system. For example: The annotated figure below shows an exemplary mesh network. The Deco node configured as a gateway router (highlighted in yellow) is connected to the internal network through “2.4GHz Wireless Connection,” “5GHz Wireless Connection,” and “5GHz_2 Dedicated Wireless Backhaul,” each of which is a network device input of the gateway router.

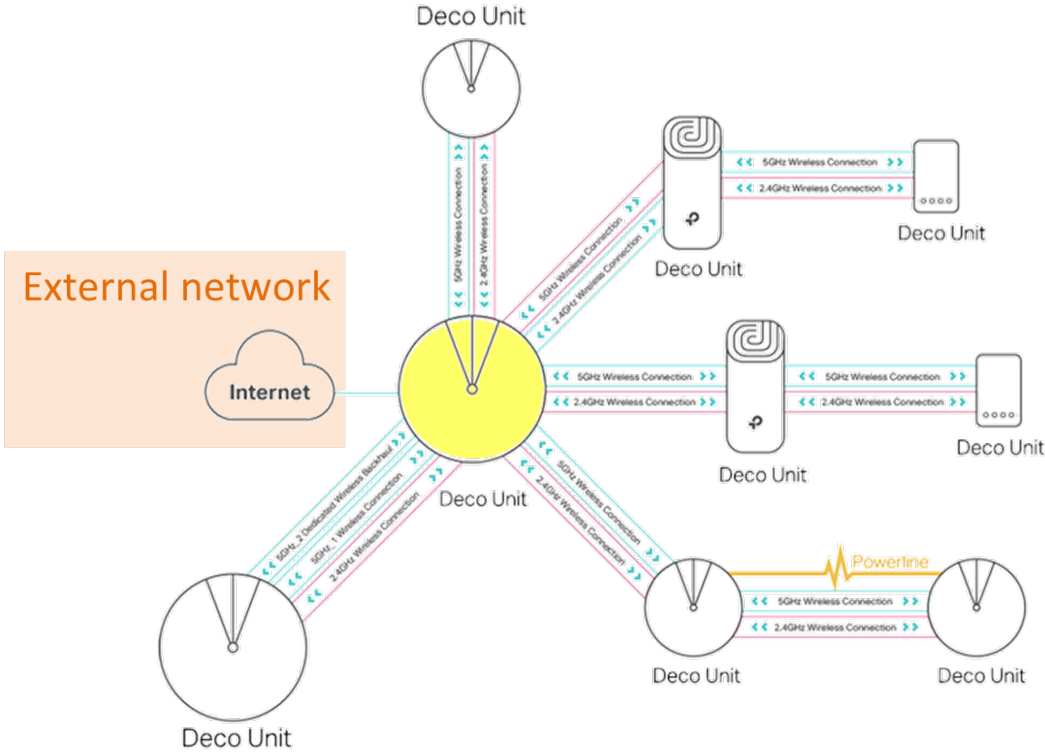
Claim Language	Representative TP-Link Products ¹
	The diagram illustrates a mesh network topology for TP-Link Deco units. A central yellow circle represents the Internet cloud, connected to a central Deco Unit (yellow circle). This central Deco Unit is connected to several other Deco Units (blue circles) via 5GHz and 2.4GHz Wireless Connections. The connections are labeled with '5GHz Wireless Connection' and '2.4GHz Wireless Connection'. One Deco Unit is also connected to another Deco Unit via a 'Powerline' connection, indicated by a red lightning bolt. The entire network is labeled 'Internal network' in blue text at the bottom right. Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/) (annotated). In addition, the '025 Accused TP-Link Products, such as the Deco XE75, include a 6 GHz Dedicated Wireless Backhaul, Ethernet, and Powerline communication as network device inputs for connecting to an internal network. 6 GHz Wi-Fi is used for dedicated backhaul by default.

Claim Language	Representative TP-Link Products ¹
	Exhibit 52 at 30 (https://static.tp-link.com/upload/manual/2022/202210/20221013/1910013233_Deco%20XE75_User%20Guide_REV2.0.0.pdf).  Exhibit 52 at 29 (https://static.tp-link.com/upload/manual/2022/202210/20221013/1910013233_Deco%20XE75_User%20Guide_REV2.0.0.pdf) (annotated). TP-Link Mesh Technology Optional Ethernet backhaul work together to link Deco units to provide seamless coverage

Claim Language	Representative TP-Link Products ¹
	Exhibit 62 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-xe75/#specifications).  Ethernet Ports: For connecting Deco to your modem, the Ethernet outlet, or for other internet services in Wireless Router mode. Power Slot: For connecting Deco to the power socket via the provided power adapter. Exhibit 52 at 2 (https://static.tp-link.com/upload/manual/2022/202210/20221013/1910013233_Deco%20XE75_User%20Guide_REV2.0.0.pdf). Powerline Technology Uses your home's electrical wiring to create stronger connections between Deco units, reducing the impact of walls or other obstacles on signal Exhibit 63 (https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-px50/v1%20(3-pack)/#specifications).

Claim Language	Representative TP-Link Products ¹
	 Reset Button: Press for 1 second and release to reset Deco to factory default settings. The light changing from pulsing yellow to solid yellow indicates a successful reset. Ethernet Ports: For connecting Deco to your modem, the Ethernet outlet, or for other internet services. Power Slot: For connecting Deco to the power socket via the provided power cord. Exhibit 64 at 2 (https://static.tp-link.com/upload/manual/2022/202212/20221209/1910013260_Deco%20PX50%201.0_User%20Guide_Deco%203.0app_REV1.0.0.pdf). The Deco node configured as the gateway router includes a network device input that is configured to communicate a plurality of data packets to and from at least one computer system. In the example below, a device or computer system named TP-Link-Iphone communicates data packets with a Deco node in the living room, which can be configured as a gateway router that includes a network device input for communicating the data packets. Alternatively, the Deco node can be configured as an intermediate node that relays data packets to the network device input of the network gateway router.

Claim Language	Representative TP-Link Products ¹
	Exhibit 52 at 14 (https://static.tp-link.com/upload/manual/2022/202210/20221013/1910013233_Deco%20XE75_User%20Guide_REV2.0.0.pdf).
1[b] a network device output connected at least indirectly to an external network and configured to communicate the plurality of data packets to and from	The '025 Accused TP-Link Products configured as gateway routers include a network device output connected at least indirectly to an external network and configured to communicate the plurality of data packets to and from at least one computer system. For example: The annotated figure below shows an exemplary mesh network. The Deco node configured as a gateway router (highlighted in yellow) is connected to the Internet, an external network.

Claim Language	Representative TP-Link Products ¹
at least one computer system; and	 Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/) (annotated). The '025 Accused TP-Link Products configured as gateway routers operate as a router or a main access point to provide internet access to the other devices in the mesh network. In particular, the Ethernet port of the '025 Accused TP-Link Products is a network device output connected at least indirectly to the Internet.

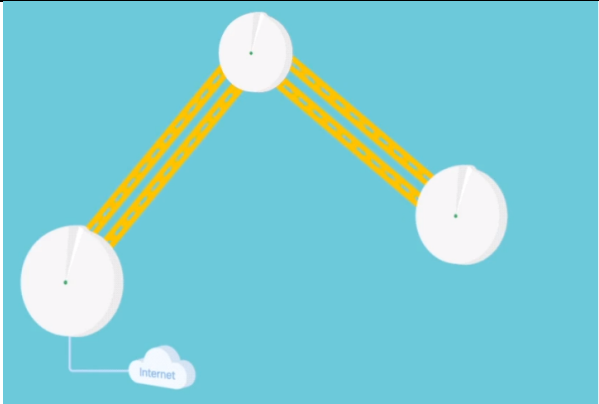
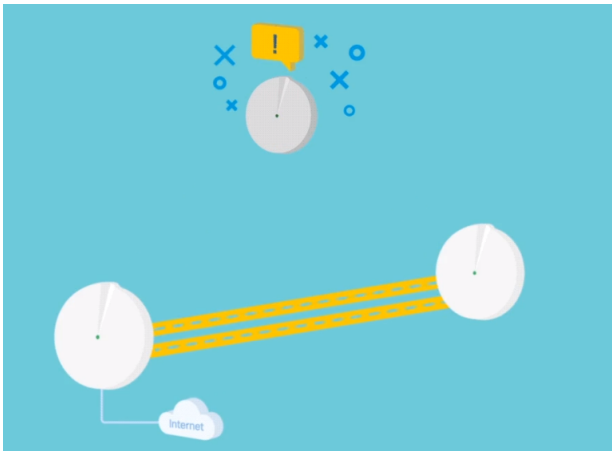
Claim Language	Representative TP-Link Products ¹
	 Ethernet Ports: For connecting Deco to your modem, the Ethernet outlet, or for other internet services in Wireless Router mode. Power Slot: For connecting Deco to the power socket via the provided power adapter. Exhibit 52 at 2 (https://static.tp-link.com/upload/manual/2022/202210/20221013/1910013233_Deco%20XE75_User%20Guide_REV2.0.0.pdf). The '025 Accused TP-Link Products configured as gateway routers include a network device output configured to communicate the plurality of data packets to and from at least one remote computer server, or computer system. For example, the screenshots below shows that the main Deco node, or gateway router, is downloading at 98 Kbps from at least one remote computer and uploading at 96 Kbps to at least one remote computer.

Claim Language	Representative TP-Link Products ¹
	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).
1[d] receiving packets from a wireless device,	The '025 Accused TP-Link Products receive packets from a wireless device. For example: As discussed regarding claim limitation [1b], data packets transmitted by a wireless device, such as a smartphone, are received by the network device input. In order to properly route the data packets to their destinations, the data packets are received and processed by the processors discussed regarding claim limitation [1c].
1[e] identifying the wireless device within a table of wireless devices connected to a wireless	The '025 Accused TP-Link Products identifies the wireless device within a table of wireless devices connected to a wireless access device in an extended wireless network. For example:

Claim Language	Representative TP-Link Products ¹
wireless device specific to the wireless access device, the wireless connection quality information including wireless connection quality information for at least one indirect communication path having at least one network extender device to establish the communication path between the gateway router and the wireless access device.	one network extender device to establish the communication path between the gateway router and the wireless access device. For example: The '025 Accused TP-Link Products support TP-Link Mesh Technology that includes features such as adaptive routing, seamless roaming, self-healing, and AI-Driven Mesh. With TP-Link Mesh Technology, the mesh network formed by the '025 Accused TP-Link Products “chooses the best route and band for your data, guaranteeing a fast connection no matter where you are in your home.” Exhibit 65 (https://www.tp-link.com/us/mesh/).  Exhibit 65 (https://www.tp-link.com/us/mesh/). TP-Link Mesh Technology chooses the best route and band for your data, guaranteeing a fast connection no matter where you are in your home Exhibit 65 (https://www.tp-link.com/us/mesh/). For example, to support the seamless roaming feature, the Deco nodes configured as gateway routers generate wireless connection quality information for the client devices specific to the satellite Deco nodes. To provide seamless roaming, each satellite Deco node monitors and measures the quality of

Claim Language	Representative TP-Link Products ¹
	the wireless connection to nearby client devices in order to reach a roaming decision, where client devices “automatically connect[] to the fastest Deco as you move through your home.” Exhibit [65] (https://www.tp-link.com/us/mesh/). Because the “Deco units work together to form one unified network,” the Deco nodes configured as the gateway routers also receive and generate wireless connection quality information for each client device to keep track of the best route for the client device. <i>Id.</i> True Seamless Roaming Deco units work together to form one unified network. Your phone or tablet automatically connects to the fastest Deco as you move through your home, creating a truly seamless online experience. Support for IEEE 802.11r as well as 802.11k/v mean switching from one Deco to another is so smooth it's unnoticeable - even during streaming. Exhibit 65 (https://www.tp-link.com/us/mesh/). Furthermore, to support the adaptive routing feature, the Deco nodes configured as gateway routers generate wireless connection quality information for the client devices specific to the satellite Deco nodes. Equipped with the adaptive routing feature of the '025 Accused TP-Link Products, the Deco mesh network “will automatically reroute data via the other devices to make sure you stay online.” Exhibit 66 (https://partner.tp-link.com/nl/news-detail.html?id=4825). In particular, the mesh network formed by the '025 Accused TP-Link Products “allow[s] router nodes to communicate with each other to generate various signal transmission paths,” where “Adaptive Routing finds the path with the least interference according to the load status of each router node or the current frequency band,” resulting in optimal connections for connected devices. Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router/). Since adaptive routing changes the communication paths to and from client devices, the Deco nodes configured as the gateway routers receive and generate wireless connection quality information for each client device to ensure that data can be routed properly.

Claim Language	Representative TP-Link Products ¹
	2) Adaptive Routing Working as a unified WIFI system, your phone or tablet automatically connects to the fastest mesh device as you move through your home. If one mesh node has an issue, the system will automatically reroute data via the other devices to make sure you stay online. Exhibit 66 (https://partner.tp-link.com/nl/news-detail.html?id=4825). 2. Adaptive Routing Mesh networks allow router nodes to communicate with each other to generate various signal transmission paths. Adaptive Routing finds the path with the least interference according to the load status of each router node or the current frequency band. This guarantees you're always getting the fastest possible speeds. Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/). In addition, to support the self-healing feature, the Deco nodes configured as gateway routers generate wireless connection quality information for the client devices specific to the satellite Deco nodes. In particular, “[i]f one Deco has an issue,” the self-healing feature allows the mesh network to “automatically reroute data via the other Decos to make sure you stay online.” Exhibit 65 (https://www.tp-link.com/us/mesh/). Moreover, because the Deco nodes “can function as the main or satellite nodes,” the mesh network can be “automatically diagnose[d] and repair[ed],” keeping devices connected to the Internet. Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/). Since the self-healing feature changes the communicate paths to and from client devices, the Deco nodes configured as the gateway routers receive and generate wireless connection quality information for each client device to ensure that data can be routed properly.

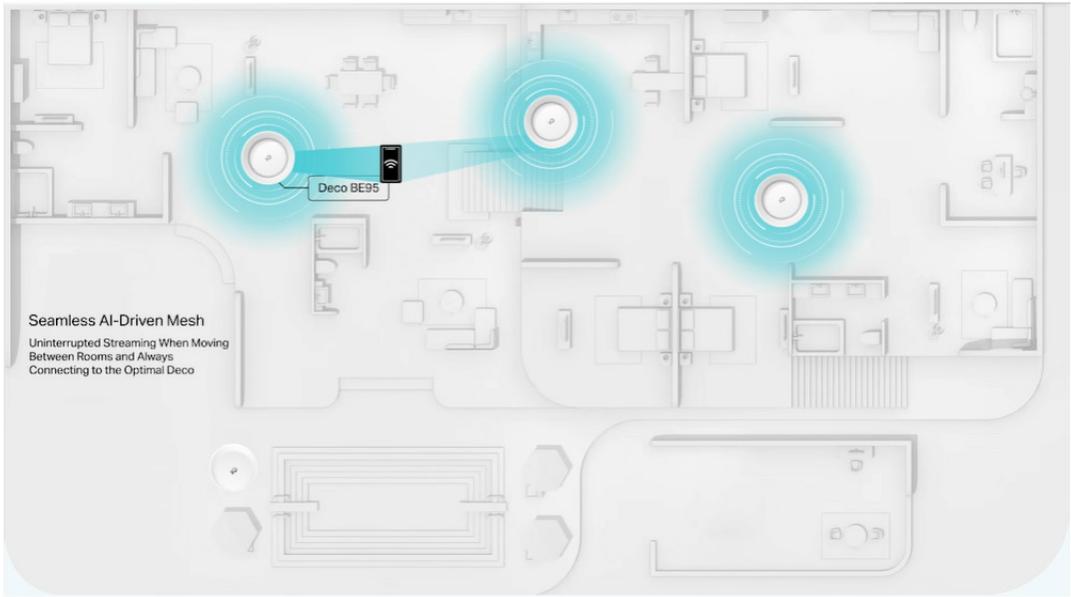
Claim Language	Representative TP-Link Products ¹
	 Self-Healing If one Deco has an issue, the system will automatically reroute data via the other Decos to make sure you stay online. Exhibit 65 (https://www.tp-link.com/us/mesh/) (showing the original mesh network).  Self-Healing If one Deco has an issue, the system will automatically reroute data via the other Decos to make sure you stay online. Exhibit 65 (https://www.tp-link.com/us/mesh/) (showing the self-healed mesh network after a node failure).

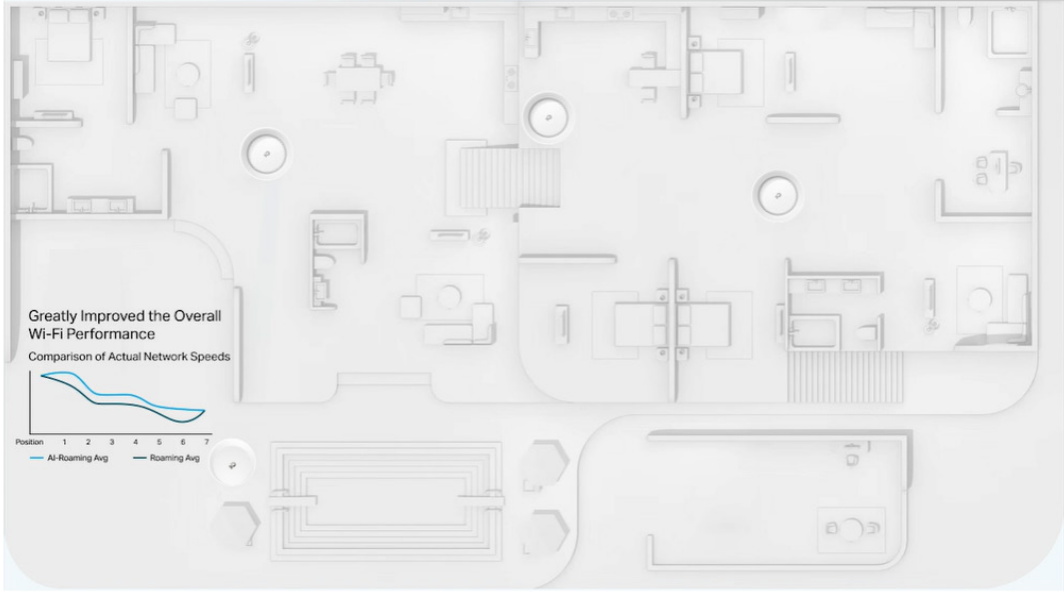
Claim Language	Representative TP-Link Products ¹
	Self-Healing In the event that one of your mesh WiFi nodes goes down, your Mesh WiFi network will automatically reroute data to make sure you stay online. Exhibit 67 (https://www.tp-link.com/hu/mesh-wifi/). 3. Self-Healing Since router nodes can communicate with each other in a mesh network, if one of your mesh WiFi nodes goes down, your Mesh WiFi network will automatically reroute data to make sure you stay online. Some systems can even assist in diagnosing and troubleshooting. TP-Link's Deco series products, for example, any one of the Decos can function as the main or satellite nodes. When one of the Deco nodes fails, it will notify the user through the Deco app and automatically diagnose and repair it. Other brand routers, on the contrary, distinguish between main and satellite nodes. When one of the router nodes goes down, another one that plays the same role (main/satellite) must be purchased to repair the network, making these types of systems inflexible as a whole. Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/).

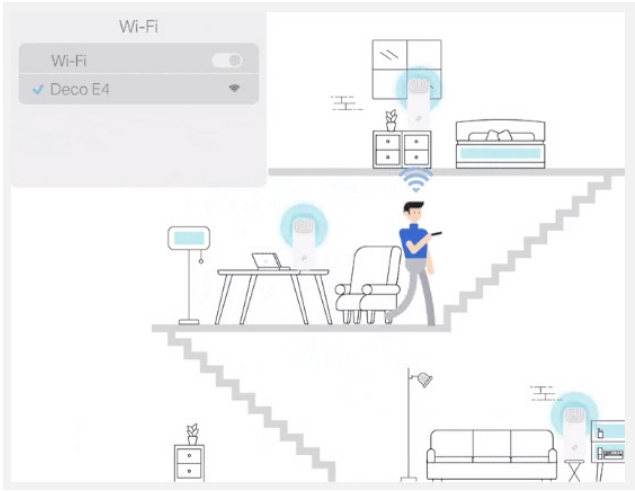
Claim Language	Representative TP-Link Products ¹
	Speed and reliability Working as a unified WiFi system, a mesh network dynamically chooses the network node and band with the strongest signal for your data, guaranteeing a fast connection no matter where you are in your home. If one mesh device has an issue, the system will automatically reroute data via the other devices to make sure you stay online. Exhibit 68 (https://www.tp-link.com/us/blog/54/). As another example, to support the AI-Driven Mesh feature, the Deco nodes configured as gateway routers generate wireless connection quality information for the client devices specific to the satellite Deco nodes. According to TP-Link, the AI-Driven Mesh feature allows the '025 Accused TP-Link Products to “keep[] a close watch on the signal strength of your devices” to “constantly create optimal connections,” “[a]fter self-learning the actual network conditions influencing your Wi-Fi performance.” Exhibit 69 (https://www.tp-link.com/en/mesh/ai-driven-mesh/). In particular, “AI-Roaming guides your device connections to the optimal Deco according to the loading conditions of each node to efficiently utilize your network bandwidth.” <i>Id.</i> Because the AI-Driven Mesh feature changes the communicate paths to and from client devices, the Deco nodes configured as the gateway routers receive and generate wireless connection quality information for each client device to ensure that data can be routed properly. AI-Roaming: Always Learning As a smart upgrade to common roaming, AI-Roaming keeps a close watch on the signal strength of your devices. After self-learning the actual network conditions influencing your Wi-Fi performance, AI-Roaming helps your devices seamlessly switch to another source when necessary to constantly create optimal connections. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/).

Claim Language	Representative TP-Link Products ¹
	Ideal Wi-Fi Unique to Your Home Traditional mesh provides an uninterrupted streaming experience as you move throughout your signal coverage area. However, your network conditions can still be undermined by many other factors in a real environment, such as your router's placement, some thick walls, or even a microwave. Armed with AI-Driven Mesh Technology, Deco automatically learns the network environment, client quality, and user behaviors in your home. With sophisticated, multifactored algorithms, Deco customizes an ideal mesh Wi-Fi solution unique to your home. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). Connect to the Optimal Deco AI-Roaming guides your device connections to the optimal Deco according to the loading conditions of each node to efficiently utilize your network bandwidth. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). A Customized Mesh Solution How a mesh network is internally bridged directly affects your Wi-Fi performance. AI-Driven Mesh comprehensively weighs factors that influence your Wi-Fi, all while establishing a mesh network. These factors include the number of your mesh nodes, their product types, and how they connect with each other. After analyzing all of these, AI-Driven Mesh custom creates the ideal mesh Wi-Fi solution for you. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). Furthermore, the “Self-Learning Capability” of the AI-Driven Mesh feature allows the '025 Accused TP-Link Products to “[i]ntelligently learn[] the network environment, client quality, and user behaviors to custom create the optimal Wi-Fi network.” Exhibit 70 (https://www.tp-link.com/us/support/faq/1427/). The AI-Driven Mesh feature allows “Deco units work together to form one unified network with seamless roaming, adaptive path selection, and self-healing,” such that devices “automatically connect[] to the fastest Deco as you move through your home, creating a truly

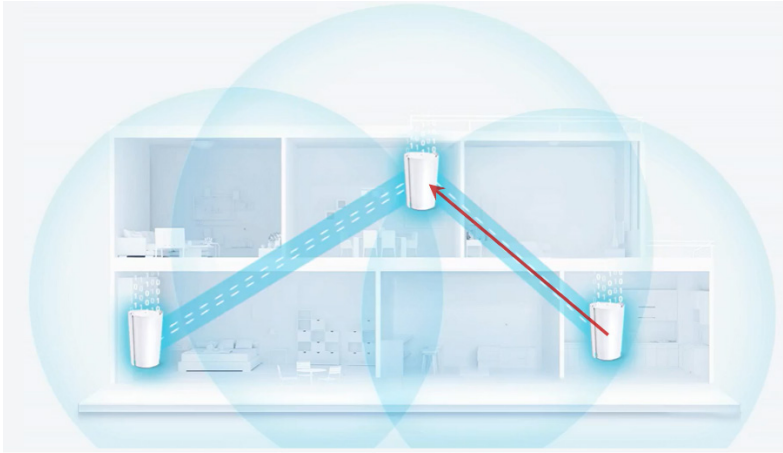
Claim Language	Representative TP-Link Products ¹
	seamless WiFi experience.” Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/). In other words, the '025 Accused TP-Link Products in a mesh network are actively monitoring the network conditions with respect to all connected client devices. This in turn allows the Deco products configured as gateway router to generate wireless quality information for all connected client devices to ensure optimal connections. AI-Driven Mesh Armed with AI Mesh technology, Deco automatically learns and improves itself from experience. This provides the ideal mesh Wi-Fi unique to your home and network environment. Walkthrough your home and enjoy seamless streaming at the fastest possible speeds. Advanced Algorithms: Automatically adjusts channel settings and transmission power levels of neighboring APs on the same network to provide strong wireless coverage while minimizing wireless interference. Self-Learning Capability: Intelligently learns the network environment, client quality, and user behaviors to custom create the optimal Wi-Fi network. Exhibit 70 (https://www.tp-link.com/us/support/faq/1427/). Seamless AI-Driven Mesh Armed with TP-Link Mesh Technology, Deco units work together to form one unified network with seamless roaming, adaptive path selection, and self-healing. Your phone or tablet automatically connects to the fastest Deco as you move through your home, creating a truly seamless WiFi experience. When a user walks between Deco units, Deco is always learning. Without AI Roaming technology, the network speeds are not always the best. But with the optimization of the AI algorithm, the roaming experience is much smoother, and the overall WiFi performance is greatly improved. Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/).

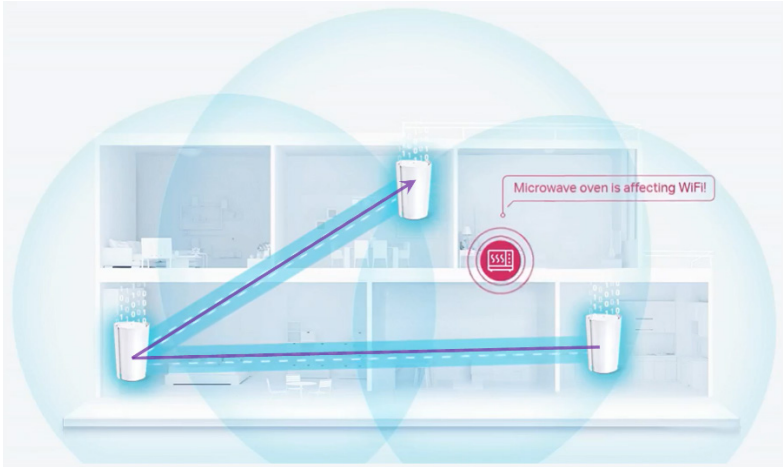
Claim Language	Representative TP-Link Products ¹
	 The diagram shows a top-down view of a house with three Deco BE95 units. Each unit is represented by a white circle with concentric blue rings indicating signal coverage. A blue line connects the three units, representing the mesh network. The text 'Seamless AI-Driven Mesh' is displayed on the left side of the diagram, followed by the sub-points: 'Uninterrupted Streaming When Moving Between Rooms and Always Connecting to the Optimal Deco'. Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/).

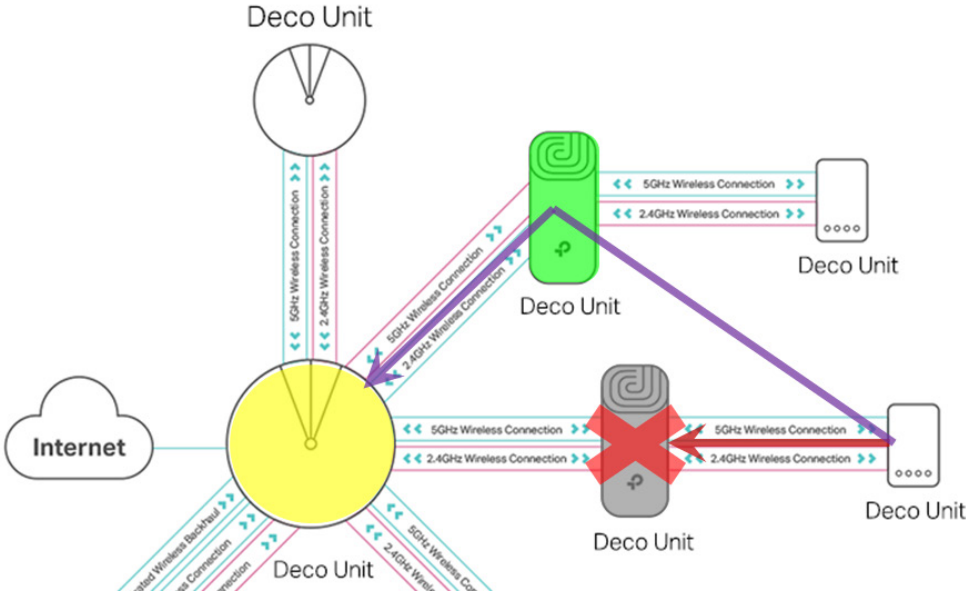
Claim Language	Representative TP-Link Products ¹
	 Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/). The '025 Accused TP-Link Products generate wireless connection quality information for at least one indirect communication path having at least one network extender device to establish the communication path between the gateway router and the wireless access device. For example: With TP-Link Mesh Technology, the mesh network made up of the '025 Accused TP-Link Products “chooses the best route and band for your data, guaranteeing a fast connection no matter where you are in your home.” Exhibit 65 (https://www.tp-link.com/us/mesh/). To select the best routes for client devices within the mesh network, the '025 Accused TP-Link Products generate wireless connection quality information for each client device that includes the possible routes for the client device, where at least one route includes an indirect path that includes an intermediate Deco node between the Deco gateway router and the Deco access point node for the client device.

Claim Language	Representative TP-Link Products ¹
	For example, with seamless roaming, the mesh network formed with the '025 Accused TP-Link Products directs client devices to “automatically connect[] to the fastest Deco as you move through your home.” Exhibit 65 (https://www.tp-link.com/us/mesh).  Exhibit 32 (https://www.tp-link.com/us/deco-mesh-wifi/) (showing a client device moving away from the Deco node on the 2nd floor and towards another Deco node on the 3rd floor). In the example below, the seamless roaming feature would drive a client device to roam from the Deco node highlighted in blue to the Deco node highlighted in green if the mesh network determines that the communication path highlighted in green is faster. The Deco node configured as the gateway router (highlighted in yellow) has wireless connection quality information on both paths in order to determine that the path highlighted in green is faster, where the path includes an intermediate Deco node (or network extender) to establish a connection between the gateway router and the Deco node in green.

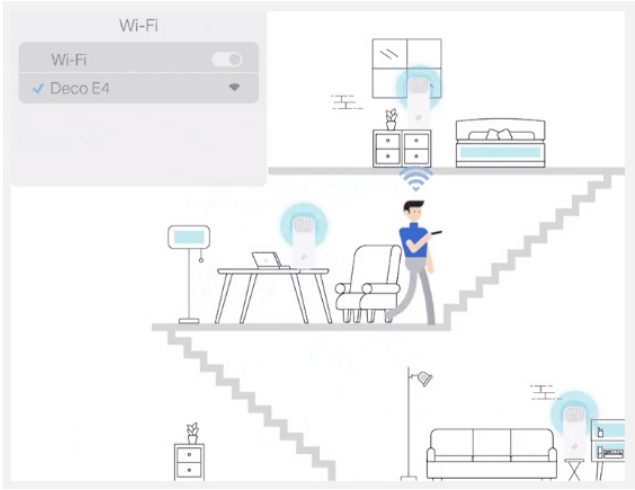
Claim Language	Representative TP-Link Products ¹
	Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/) (annotated). Furthermore, with adaptive routing, the Deco nodes “communicate with each other to generate various signal transmission paths” and “find[] the path with the least interference according to the load status of each router node or the current frequency band,” which “guarantees you’re always getting the fastest possible speeds.” Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/). With the AI-Driven feature, each Deco node in the mesh network “automatically learns and improves itself from experience” to “provide[] the ideal mesh Wi-Fi unique to your home and network environment.” Exhibit 70 (https://www.tp-link.com/us/support/faq/1427/). 2. Adaptive Routing Mesh networks allow router nodes to communicate with each other to generate various signal transmission paths. Adaptive Routing finds the path with the least interference according to the load status of each router node or the current frequency band. This guarantees you’re always getting the fastest possible speeds.

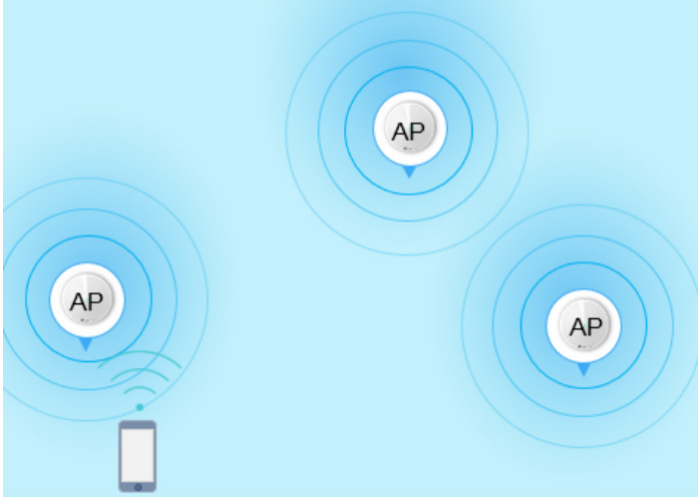
Claim Language	Representative TP-Link Products ¹
	Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/). AI-Driven Mesh Armed with AI Mesh technology, Deco automatically learns and improves itself from experience. This provides the ideal mesh Wi-Fi unique to your home and network environment. Walkthrough your home and enjoy seamless streaming at the fastest possible speeds. Advanced Algorithms: Automatically adjusts channel settings and transmission power levels of neighboring APs on the same network to provide strong wireless coverage while minimizing wireless interference. Self-Learning Capability: Intelligently learns the network environment, client quality, and user behaviors to custom create the optimal Wi-Fi network. Exhibit 70 (https://www.tp-link.com/us/support/faq/1427/). In the example below, the two Deco nodes on the right initially communicate directly, as indicated by the red arrow.  Exhibit 69 (https://www.tp-link.com/en/mesh/ai-driven-mesh/) (annotated).

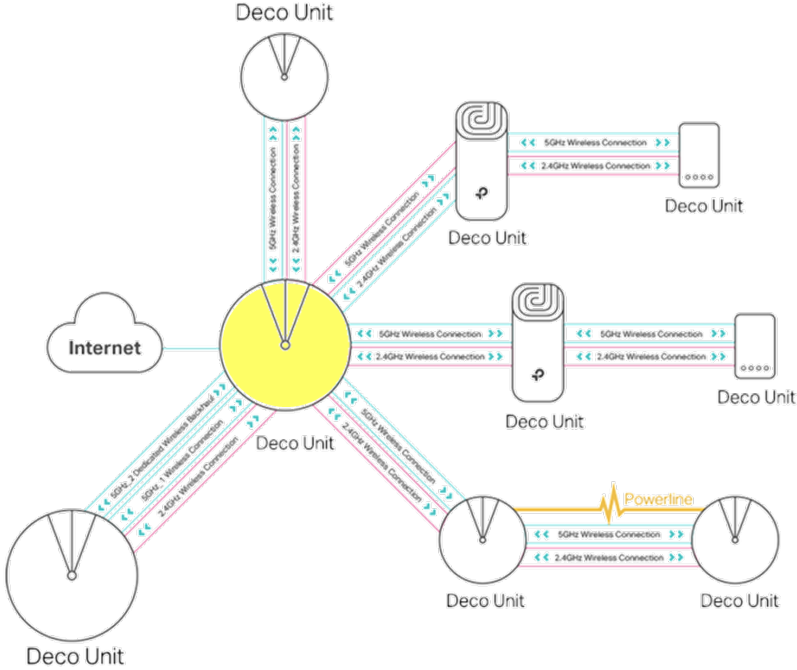
Claim Language	Representative TP-Link Products ¹
	However, with interference from the microwave oven, the adaptive routing feature and/or the AI-Driven Mesh feature drive the two Deco nodes to communicate, indirectly, via the Deco on the left, as indicated by the purple arrow. As a result, the Deco node configured as a gateway router receives wireless connection quality information from the Deco node on the right and determines that the best path to communicate with client devices connected to the Deco node on the right is an indirect path through the Deco on the left, a network extender.  Exhibit 69 (https://www.tp-link.com/en/mesh/ai-driven-mesh/) (annotated). In addition, with the self-healing feature, “[i]f one Deco has an issue,” the self-healing feature allows the mesh network to “automatically reroute data via the other Decos to make sure you stay online.” Exhibit 65 (https://www.tp-link.com/us/mesh/). In the example below, the Deco node highlighted in gray failed and the Deco node on the far right could no longer connect to the Deco node configured as the gateway router via the grayed-out Deco node (red arrow). In response, the mesh network reroutes the connection through the Deco node highlighted in green, as indicated by the purple arrow. As a result, the Deco node configured as a gateway router receives wireless connection quality information from the Deco nodes in the network and determines that the best path to communicate with client

Claim Language	Representative TP-Link Products ¹
	devices connected to the Deco node on the far right is an indirect path through the Deco node highlighted in green, a network extender.  Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/) (annotated).
7[pre]. An extended network configured to implement an extended management function to identify a wireless access device providing a highest quality wireless connection to a wireless device, comprising:	To the extent the preamble is limiting, the '025 Accused TP-Link Products form an extended network configured to implement an extended management function to identify a wireless access device providing a highest quality wireless connection to a wireless device. For example: The '025 Accused TP-Link Products can be configured as an extended network. In the example below, an extended network is formed with a number of Deco nodes.

Claim Language	Representative TP-Link Products ¹
	Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/) (annotated). Mesh WiFi works by using two or more devices or “nodes” to create a secure and strong wifi network. These nodes are important in efficiently delivering WiFi, as each node serves as a “daisy chain” for other nodes in the system. Even nodes that are furthest from the router can still deliver a strong signal. Nodes communicate with one another in order to determine the fastest band for your devices, and to reroute traffic in the event that one node fails with its self-healing technology.

Claim Language	Representative TP-Link Products ¹
	Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/). Further, when configured as a mesh network, the '025 Accused TP-Link Products implement an extended management function to identify a wireless access device providing the highest quality wireless connection to a wireless device. For example, TP-Link Deco products “communicate with each other to generate various signal transmission paths” and “find[] the path with the least interference according to the load status of each router node or the current frequency band,” which “guarantees you’re always getting the fastest possible speeds.” Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/). For example, with seamless roaming, the mesh network formed with the '025 Accused TP-Link Products directs client devices to “automatically connect[] to the fastest Deco as you move through your home.” Exhibit 65 (https://www.tp-link.com/us/mesh). 

Claim Language	Representative TP-Link Products ¹
	Exhibit 32 (https://www.tp-link.com/us/deco-mesh-wifi/) (showing a client device moving away from the Deco node on the 2nd floor and towards another Deco node on the 3rd floor). The roaming feature of TP-Link’s Deco networks is done through “AP Steering,” where the “client roams to the AP(Access Point) with a stronger signal.” AP Steering A client roams to the AP(Access Point) with a stronger signal.  Exhibit 70 (https://www.tp-link.com/us/support/faq/1427/).
7[a] a gateway device configured to enable communication between the extended network and an external network;	See discussion regarding claim limitations [1a] and [1b].

Claim Language	Representative TP-Link Products ¹
7[b] at least two wireless access devices in the extended network; and	The '025 Accused TP-Link Products can be configured to include at least two wireless access devices in the extended network. For example: TP-Link's website provides an example of an extended network with more than two number of Deco nodes.  Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/) (annotated). The '025 Accused TP-Link Products are often sold in packages that include at least two wireless access devices.

Claim Language	Representative TP-Link Products ¹
	Deco X55 Hot Buys AX3000 Whole Home Mesh WiFi 6 System • AX3000 Dual Band WiFi - Super-fast WiFi 6 with speeds up to 3.0 Gbps • 4 Streams, Less Lag - 2x2/HE160 2402 Mbps + 2x2 574 Mbps • Gigabit Wired Speed - 3x Gigabit ports provide sufficient connectivity • Boosted Seamless Coverage - Seamless mesh WiFi coverage up to 6,500 ft² (3-pack) • AI-Driven Mesh - Intelligently learns the network environment to provide ideal WiFi unique to your home • TP-Link HomeShield - Provides comprehensive network protection, robust parental controls, and real-time IoT protection • Setup Made Easier Than Ever - The Deco app walks you through the setup step-by-step 1-pack 2-pack 3-pack

Exhibit 72 ([https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x55/v1%20\(3-pack\)/](https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-x55/v1%20(3-pack)/)).

Deco XE75

AXE5400 Tri-Band Mesh Wi-Fi 6E System

- **Whole Home WiFi 6E** – Cover up to 7,200 ft² with next-gen seamless WiFi and make dead zones and buffering a thing of the past^{††}
- **Brand-New 6 GHz Band** – Experience the latest frequency of WiFi, eliminating interference from all legacy devices. The 6 GHz band also delivers a powerful dedicated backhaul to further streamline the WiFi performance of non-6E devices^Δ
- **True Tri-Band Speed** – All three WiFi bands work together to unleash your network's total speeds up to 5,400 Mbps for 200 devices[†]
- **AI-Driven Mesh** – Unites your home under one name and password while delivering the best connections as you move room to room^{*}
- **TP-Link HomeShield** – Keeps your home network safe with cutting-edge features for network and IoT protection[§]
- **Setup Made Easier Than Ever** – The Deco app walks you through setup step-by-step
- **Universal Compatibility** – Backward compatible with all WiFi generations and works with any internet service provider (ISP) and modem

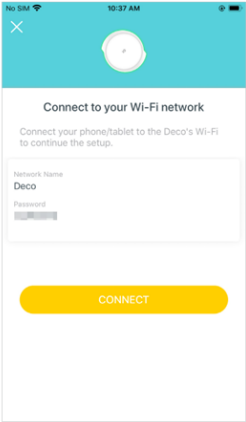
3-pack

2-pack

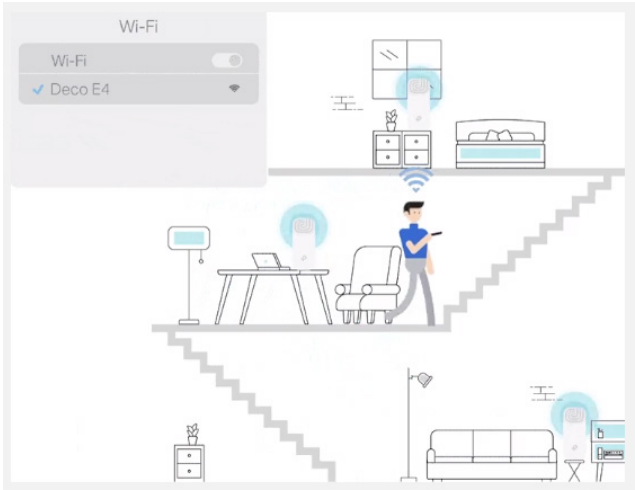
Exhibit 73 ([https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-xe75/v1%20\(3-pack\)/](https://www.tp-link.com/us/deco-mesh-wifi/product-family/deco-xe75/v1%20(3-pack)/)).

Claim Language	Representative TP-Link Products ¹
	 3 Plans TP-Link Deco Mesh WiFi System(Deco M5) –Up to 5,500 sq. ft. Whole Home Coverage and 100+ Devices,WiFi Router/Extender Replacement, Anitivirus, 3-pack Visit the TP-Link Store ★★★★★ 24,732 ratings 1000+ answered questions -11% \$169⁵⁷ (\$56.52 / Count) List Price: \$189.99 ⓘ FREE Returns ▾ Save ☐ Apply \$30 coupon Terms ▾ Get \$50 off instantly: Pay \$119.57 upon approval for the Amazon Rewards Visa Card. Available at a lower price from other sellers that may not offer free Prime shipping. Style: 3-pack 2-pack \$99.99 (\$50.00 / Count) 3-pack \$169.57 (\$56.52 / Count) Add-on unit \$56.99 alexa WORKS WITH ALEXA Add voice control by combining with an Alexa device  Exhibit 74 (https://www.amazon.com/gp/product/B06WVCB862/ref=as_li_tl?ie=UTF8&tag=bndecom53-pack-20&camp=1789&creative=9325&linkCode=as2&creativeASIN=B06WVCB862&linkId=241dc932e8b62127fcf22fe9967597ec). The '025 Accused TP-Link Products can include additional deco units. Can I add more Deco units to my existing Mesh network? Yes! The great thing about mesh systems is they grow as your home grows or your needs change. All deco units work together regardless of the model and adding new units is as easy as powering on and following the guided steps in the Deco app.

Claim Language	Representative TP-Link Products ¹
	How many Deco units can I have in my home? It is best to connect 10 or fewer Deco units in your home to maintain better performance; however, there is no limit on the number of Deco units you can add to your network. Current 3-packs can cover as much as 7,000 sq. ft., which works for most users. Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/).
7[c] at least one wireless device having a wireless connection to a at least one of the wireless access devices,	The '025 Accused TP-Link Products can be configured to include at least one wireless device having a wireless connection to a at least one of the wireless access devices. For example: The purpose of the '025 Accused TP-Link Products is to provide a wireless connection to a wireless device. The connection is formed by wireless access devices. Coverage. Exhibit 32 (https://www.tp-link.com/us/deco-mesh-wifi/).

Claim Language	Representative TP-Link Products ¹
	User manuals for the '025 Accused TP-Link Products include instructions on how to create a wireless connection between a wireless device and the TP-Link Deco network. For example: 7. Connect to your Wi-Fi network Connect your devices to the Deco's Wi-Fi to continue the setup.  8. Setup complete Your Deco network is now up. Connect all devices to the Deco network for better connections.  Exhibit 50 (https://static.tp-link.com/2020/202011/20201126/1910012843_Deco%20X90&Deco%20X5700_UG_V1.pdf) at 5. The '025 Accused TP-Link Products can provide a connection for up to 200 devices. How many devices can be connected to a Deco network? Depending on the Deco Mesh WiFi system you choose, you can connect up to 200 smart home, gaming, and streaming devices. Each Deco Mesh system will provide information on how many devices you can connect based on the pack size. Visit the product page of your favorite Deco for additional details. Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/).
7[d] wherein the gateway device and the wireless	The '025 Accused TP-Link Products gateway device and the wireless access devices include a processor executing the extended management function to identify the wireless access device

Claim Language	Representative TP-Link Products ¹
access devices include a processor executing the extended management function to identify the wireless access device providing the highest quality wireless connection based on wireless connection quality information, the wireless connection quality information including wireless connection quality information for at least one indirect communication path having at least one network extender device to establish the communication path between the gateway device and the wireless access device, exchanged among the wireless access devices and the gateway device.	providing the highest quality wireless connection based on wireless connection quality information, the wireless connection quality information including wireless connection quality information for at least one indirect communication path having at least one network extender device to establish the communication path between the gateway device and the wireless access device, exchanged among the wireless access devices and the gateway device. For example: The '025 Accused TP-Link Products contain a processor to execute various software functions, including the accused functionalities discussed below. For example: 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). The '025 Accused TP-Link Products processors identify the wireless access device providing the highest quality wireless connection based on wireless connection quality information. For example:

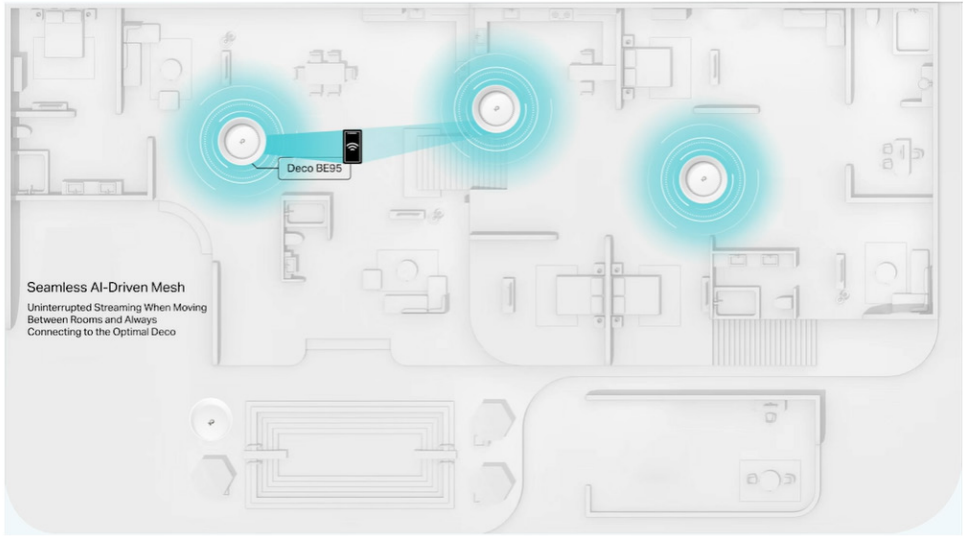
Claim Language	Representative TP-Link Products ¹
	The '025 Accused TP-Link Products support TP-Link Mesh Technology that includes features such as adaptive routing, seamless roaming, self-healing, and AI-Driven Mesh. To execute the '025 Accused TP-Link Products seamless roaming feature, the mesh network formed with the '025 Accused TP-Link Products directs client devices to “automatically connect[] to the fastest Deco as you move through your home.” Exhibit 65 (https://www.tp-link.com/us/mesh/). Because the “Deco units work together to form one unified network,” to identify the wireless access device providing the highest quality wireless connection based on wireless connection quality information, the '025 Accused TP-Link Products must keep track of the best route for the client device. Exhibit 65 (https://www.tp-link.com/us/mesh/).  Exhibit 32 (https://www.tp-link.com/us/deco-mesh-wifi/) (showing a client device moving away from the Deco node on the 2nd floor and towards another Deco node on the 3rd floor).

Claim Language	Representative TP-Link Products ¹
	True Seamless Roaming Deco units work together to form one unified network. Your phone or tablet automatically connects to the fastest Deco as you move through your home, creating a truly seamless online experience. Support for IEEE 802.11r as well as 802.11k/v mean switching from one Deco to another is so smooth it's unnoticeable - even during streaming. Exhibit 65 (https://www.tp-link.com/us/mesh/). Furthermore, the Deco mesh network's adaptive routing feature "allow[s] router nodes to communicate with each other to generate various signal transmission paths," where "Adaptive Routing finds the path with the least interference according to the load status of each router node or the current frequency band," resulting in optimal connections for connected devices and "guarantee[ing] you're always getting the fastest possible speeds." Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/). Since adaptive routing changes the communication paths to and from client devices, to perform this function, The '025 Accused TP-Link Products must identify the wireless access device providing the highest quality wireless connection based on wireless connection quality information, to ensure that data can be routed properly. Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/). 2) Adaptive Routing Working as a unified WiFi system, your phone or tablet automatically connects to the fastest mesh device as you move through your home. If one mesh node has an issue, the system will automatically reroute data via the other devices to make sure you stay online. Exhibit 66 (https://partner.tp-link.com/nl/news-detail.html?id=4825).

Claim Language	Representative TP-Link Products ¹
	2. Adaptive Routing Mesh networks allow router nodes to communicate with each other to generate various signal transmission paths. Adaptive Routing finds the path with the least interference according to the load status of each router node or the current frequency band. This guarantees you're always getting the fastest possible speeds. Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/). Speed and reliability Working as a unified WiFi system, a mesh network dynamically chooses the network node and band with the strongest signal for your data, guaranteeing a fast connection no matter where you are in your home. If one mesh device has an issue, the system will automatically reroute data via the other devices to make sure you stay online. Exhibit 68 (https://www.tp-link.com/us/blog/54/). As another example, to support the Deco mesh network's AI-Driven Mesh feature, The '025 Accused TP-Link Products must identify the wireless access device providing the highest quality wireless connection based on wireless connection quality information for a client device connection specific to each satellite Deco nodes. According to TP-Link, the AI-Driven Mesh feature allows the '025 Accused TP-Link Products to "keep[] a close watch on the signal strength of your devices" to "constantly create optimal connections," "[a]fter self-learning the actual network conditions influencing your Wi-Fi performance." Exhibit 69 (https://www.tp-link.com/en/mesh/ai-driven-mesh/). In particular, "AI-Roaming guides your device connections to the optimal Deco according to the loading conditions of each node to efficiently utilize your network bandwidth." <i>Id.</i> Because the AI-Driven Mesh feature changes the communicate paths to and from client devices, Deco products must identify the wireless access device providing the highest quality wireless connection based on wireless connection quality information for a client device to ensure that data can be routed properly.

Claim Language	Representative TP-Link Products ¹
	AI-Roaming: Always Learning As a smart upgrade to common roaming, AI-Roaming keeps a close watch on the signal strength of your devices. After self-learning the actual network conditions influencing your Wi-Fi performance, AI-Roaming helps your devices seamlessly switch to another source when necessary to constantly create optimal connections. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). Ideal Wi-Fi Unique to Your Home Traditional mesh provides an uninterrupted streaming experience as you move throughout your signal coverage area. However, your network conditions can still be undermined by many other factors in a real environment, such as your router's placement, some thick walls, or even a microwave. Armed with AI-Driven Mesh Technology, Deco automatically learns the network environment, client quality, and user behaviors in your home. With sophisticated, multifactored algorithms, Deco customizes an ideal mesh Wi-Fi solution unique to your home. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). Connect to the Optimal Deco AI-Roaming guides your device connections to the optimal Deco according to the loading conditions of each node to efficiently utilize your network bandwidth. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). A Customized Mesh Solution How a mesh network is internally bridged directly affects your Wi-Fi performance. AI-Driven Mesh comprehensively weighs factors that influence your Wi-Fi, all while establishing a mesh network. These factors include the number of your mesh nodes, their product types, and how they connect with each other. After analyzing all of these, AI-Driven Mesh custom creates the ideal mesh Wi-Fi solution for you.

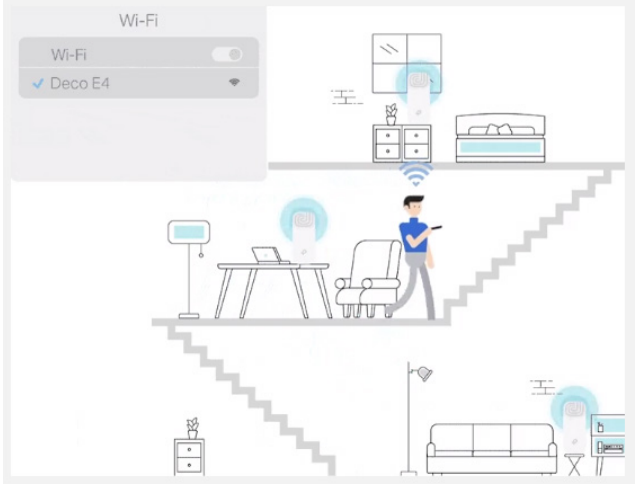
Claim Language	Representative TP-Link Products ¹
	Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). Furthermore, the “Self-Learning Capability” of the AI-Driven Mesh feature allows the ’025 Accused TP-Link Products to “[i]ntelligently learn[] the network environment, client quality, and user behaviors to custom create the optimal Wi-Fi network.” Exhibit 70 (https://www.tp-link.com/us/support/faq/1427/). The AI-Driven Mesh feature allows “Deco units work together to form one unified network with seamless roaming, adaptive path selection, and self-healing,” such that devices “automatically connect[] to the fastest Deco as you move through your home, creating a truly seamless WiFi experience.” Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/). In other words, the ’025 Accused TP-Link Products in a mesh network are actively monitoring the network conditions with respect to all connected client devices. This in turn allows the Deco products to identify the wireless access device providing the highest quality wireless connection based on wireless connection quality information. AI-Driven Mesh Armed with AI Mesh technology, Deco automatically learns and improves itself from experience. This provides the ideal mesh Wi-Fi unique to your home and network environment. Walkthrough your home and enjoy seamless streaming at the fastest possible speeds. Advanced Algorithms: Automatically adjusts channel settings and transmission power levels of neighboring APs on the same network to provide strong wireless coverage while minimizing wireless interference. Self-Learning Capability: Intelligently learns the network environment, client quality, and user behaviors to custom create the optimal Wi-Fi network. Exhibit 70 (https://www.tp-link.com/us/support/faq/1427/). Seamless AI-Driven Mesh Armed with TP-Link Mesh Technology, Deco units work together to form one unified network with seamless roaming, adaptive path selection, and self-healing. Your phone or tablet automatically connects to the fastest Deco as you move through your home, creating a truly seamless WiFi experience. When a user walks between Deco units, Deco is always learning. Without AI Roaming technology, the network speeds are not always the best. But with the optimization of the AI algorithm, the roaming experience is much smoother, and the overall WiFi performance is greatly improved. Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/).

Claim Language	Representative TP-Link Products ¹
	 The diagram illustrates a mesh network setup in a house. Three Deco BE95 units are shown, each with a blue circular signal range. The units are connected to each other, forming a mesh. The text 'Seamless AI-Driven Mesh' is displayed, along with the subtext 'Uninterrupted Streaming When Moving Between Rooms and Always Connecting to the Optimal Deco'. Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/).

Claim Language	Representative TP-Link Products ¹
	Greatly Improved the Overall Wi-Fi Performance Comparison of Actual Network Speeds Position 1 2 3 4 5 6 7 — AI Roaming Avg — Roaming Avg Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/). For information regarding indirect communication paths, <i>see</i> discussion regarding claim limitation [1f]. The '025 Accused TP-Link Products exchange wireless connection quality information among the wireless access devices and the gateway device. For example: To support the seamless roaming feature, the Deco nodes exchange wireless connection quality information for the client devices specific to the satellite Deco nodes. Each satellite Deco node must monitor and measure the quality of the wireless connection to nearby client devices in order to reach a roaming decision, so that client devices can “automatically connect[] to the fastest Deco as you move through your home.” Exhibit 65 (https://www.tp-link.com/us/mesh/). Because the “Deco units work together to form one unified network,” the Deco nodes exchange wireless connection quality information for each client device to keep track of the best route for the client device. <i>Id.</i>

Claim Language	Representative TP-Link Products ¹
	True Seamless Roaming Deco units work together to form one unified network. Your phone or tablet automatically connects to the fastest Deco as you move through your home, creating a truly seamless online experience. Support for IEEE 802.11r as well as 802.11k/v mean switching from one Deco to another is so smooth it's unnoticeable - even during streaming. Exhibit 65 (https://www.tp-link.com/us/mesh/). Furthermore, to support the adaptive routing feature, the Deco nodes (including both the gateway device and wireless access devices, or satellite Deco nodes) exchange wireless connection quality information for the client devices specific to the satellite Deco nodes. Equipped with the adaptive routing feature of the '025 Accused TP-Link Products, the Deco mesh network “will automatically reroute data via the other devices to make sure you stay online.” Exhibit 66 (https://partner.tp-link.com/nl/news-detail.html?id=4825). In particular, the mesh network formed by the '025 Accused TP-Link Products “<i>allow[s] router nodes to communicate with each other</i>” to generate various signal transmission paths,” where “Adaptive Routing finds the path with the least interference according to the load status of each router node or the current frequency band,” resulting in optimal connections for connected devices. Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/) (emphasis added). Since adaptive routing changes the communication paths to and from client devices, the Deco nodes exchange wireless connection quality information for each client device to ensure that data can be routed properly. 2) Adaptive Routing Working as a unified WiFi system, your phone or tablet automatically connects to the fastest mesh device as you move through your home. If one mesh node has an issue, the system will automatically reroute data via the other devices to make sure you stay online. Exhibit 66 (https://partner.tp-link.com/nl/news-detail.html?id=4825).

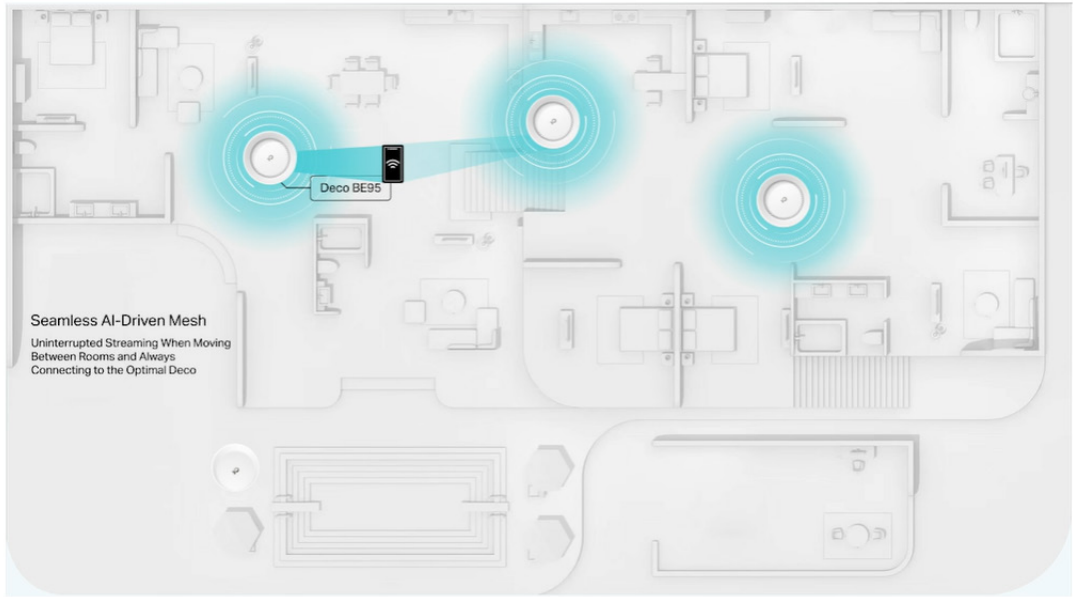
Claim Language	Representative TP-Link Products ¹
	2. Adaptive Routing Mesh networks allow router nodes to communicate with each other to generate various signal transmission paths. Adaptive Routing finds the path with the least interference according to the load status of each router node or the current frequency band. This guarantees you're always getting the fastest possible speeds. Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/).
16[pre]. A computer implemented method for identifying a wireless access device providing a highest quality wireless connection to a wireless device, comprising	To the extent the preamble is limiting, the '025 Accused TP-Link Products are configured to perform computer implemented method for identifying a wireless access device providing a highest quality wireless connection to a wireless device. For example: Nodes communicate with one another in order to determine the fastest band for your devices, and to reroute traffic in the event that one node fails with its self-healing technology. Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/). Further, TP-Link Deco products “communicate with each other to generate various signal transmission paths” and “find[] the path with the least interference according to the load status of each router node or the current frequency band,” which “guarantees you’re always getting the fastest possible speeds.” Exhibit 61 (https://www.tp-link.com/uk/blog/332/what-is-mesh-wifi-what-does-it-do-and-how-to-choose-a-mesh-wifi-router-/). With seamless roaming, the mesh network formed with the '025 Accused TP-Link Products directs client devices to “automatically connect[] to the fastest Deco as you move through your home.” Exhibit 53 (https://www.tp-link.com/us/mesh).

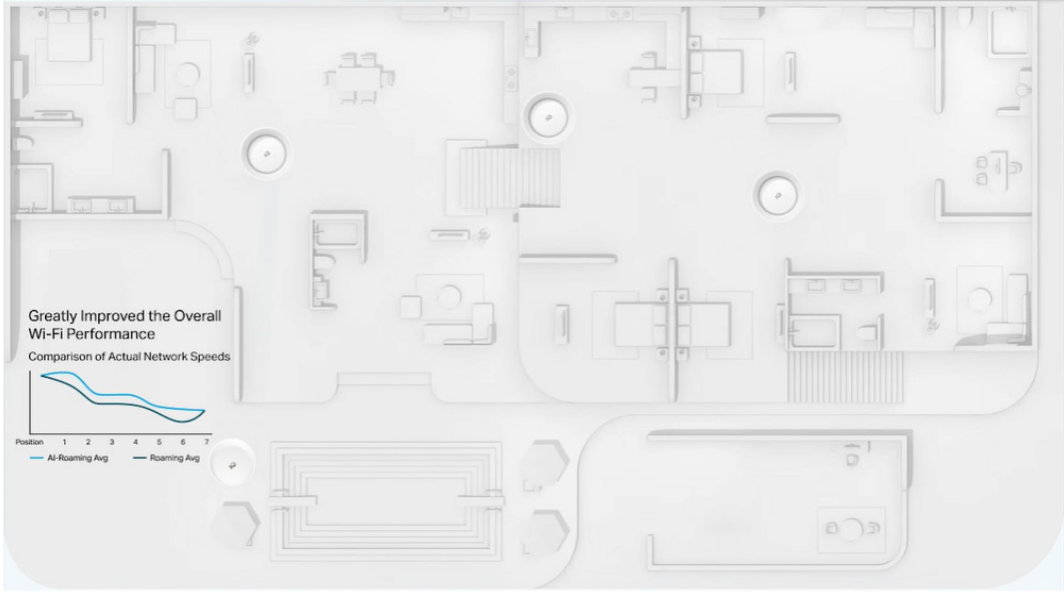
Claim Language	Representative TP-Link Products ¹
	 Exhibit 32 (https://www.tp-link.com/us/deco-mesh-wifi/) (showing a client device moving away from the Deco node on the 2nd floor and towards another Deco node on the 3rd floor).
16[a] receiving data at a plurality of wireless access devices in an extended network from a wireless device having a current wireless connection to a current wireless access device amongst the plurality of wireless access devices; and	The '025 Accused TP-Link Products receive data at a plurality of wireless access devices in an extended network from a wireless device having a current wireless connection to a current wireless access device amongst the plurality of wireless access devices. For example: The '025 Accused TP-Link Products support TP-Link Mesh Technology that includes features such as adaptive routing, seamless roaming, self-healing, and AI-Driven Mesh. To support the seamless roaming feature, the Deco nodes receive data from a wireless device having a current connection to a current wireless access device. Each satellite Deco node monitors and measures the quality of the wireless connection to nearby client devices in order to reach a roaming decision, where client devices “automatically connect[] to the fastest Deco as you move through your home.” Exhibit 65 (https://www.tp-link.com/us/mesh/). To do so, each Deco node must receive data from a wireless device having a current connection.

Claim Language	Representative TP-Link Products ¹
	True Seamless Roaming Deco units work together to form one unified network. Your phone or tablet automatically connects to the fastest Deco as you move through your home, creating a truly seamless online experience. Support for IEEE 802.11r as well as 802.11k/v mean switching from one Deco to another is so smooth it's unnoticeable - even during streaming. Exhibit 65 (https://www.tp-link.com/us/mesh/). To support the AI-Driven Mesh feature, according to TP-Link, the '025 Accused TP-Link Products to “keep[] a close watch on the signal strength of your devices” to “constantly create optimal connections,” “[a]fter self-learning the actual network conditions influencing your Wi-Fi performance.” Exhibit 69 (https://www.tp-link.com/en/mesh/ai-driven-mesh/). In particular, “AI-Roaming guides your device connections to the optimal Deco according to the loading conditions of each node to efficiently utilize your network bandwidth.” <i>Id.</i> To do so, each Deco node must receive data from a wireless device having a current connection. AI-Roaming: Always Learning As a smart upgrade to common roaming, AI-Roaming keeps a close watch on the signal strength of your devices. After self-learning the actual network conditions influencing your Wi-Fi performance, AI-Roaming helps your devices seamlessly switch to another source when necessary to constantly create optimal connections. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). Ideal Wi-Fi Unique to Your Home Traditional mesh provides an uninterrupted streaming experience as you move throughout your signal coverage area. However, your network conditions can still be undermined by many other factors in a real environment, such as your router's placement, some thick walls, or even a microwave. Armed with AI-Driven Mesh Technology, Deco automatically learns the network environment, client quality, and user behaviors in your home. With sophisticated, multifactor algorithms, Deco customizes an ideal mesh Wi-Fi solution unique to your home. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/).

Claim Language	Representative TP-Link Products ¹
	Connect to the Optimal Deco AI-Roaming guides your device connections to the optimal Deco according to the loading conditions of each node to efficiently utilize your network bandwidth. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). A Customized Mesh Solution How a mesh network is internally bridged directly affects your Wi-Fi performance. AI-Driven Mesh comprehensively weighs factors that influence your Wi-Fi, all while establishing a mesh network. These factors include the number of your mesh nodes, their product types, and how they connect with each other. After analyzing all of these, AI-Driven Mesh custom creates the ideal mesh Wi-Fi solution for you. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). Furthermore, the “Self-Learning Capability” of the AI-Driven Mesh feature allows the ’025 Accused TP-Link Products to “[i]ntelligently learn[] the network environment, client quality, and user behaviors to custom create the optimal Wi-Fi network.” Exhibit 70 (https://www.tp-link.com/us/support/faq/1427/). The AI-Driven Mesh feature allows “Deco units work together to form one unified network with seamless roaming, adaptive path selection, and self-healing,” such that devices “automatically connect[] to the fastest Deco as you move through your home, creating a truly seamless WiFi experience.” Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/). In other words, the ’025 Accused TP-Link Products in a mesh network are actively monitoring the network conditions with respect to all connected client devices. To do so requires that each Deco node must receive data from a wireless device having a current connection.

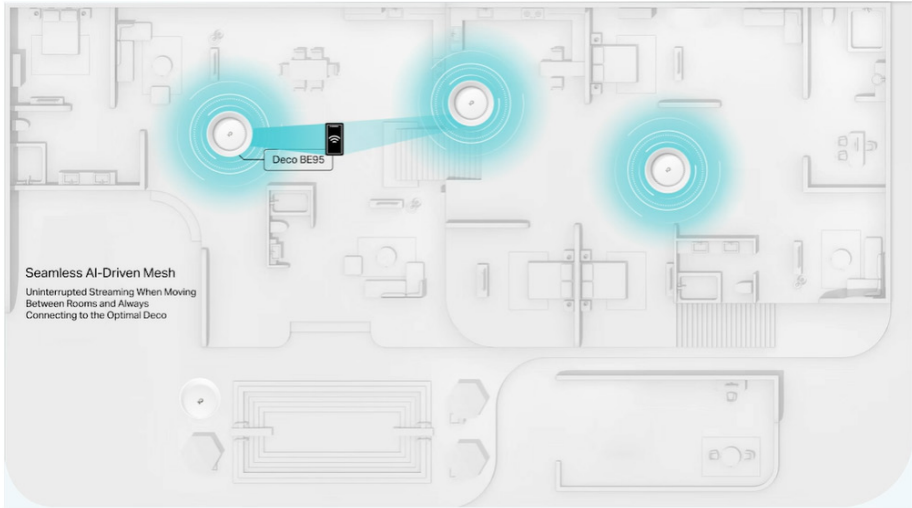
Claim Language	Representative TP-Link Products ¹
	AI-Driven Mesh Armed with AI Mesh technology, Deco automatically learns and improves itself from experience. This provides the ideal mesh Wi-Fi unique to your home and network environment. Walkthrough your home and enjoy seamless streaming at the fastest possible speeds. Advanced Algorithms: Automatically adjusts channel settings and transmission power levels of neighboring APs on the same network to provide strong wireless coverage while minimizing wireless interference. Self-Learning Capability: Intelligently learns the network environment, client quality, and user behaviors to custom create the optimal Wi-Fi network. Exhibit 70 (https://www.tp-link.com/us/support/faq/1427/). Seamless AI-Driven Mesh Armed with TP-Link Mesh Technology, Deco units work together to form one unified network with seamless roaming, adaptive path selection, and self-healing. Your phone or tablet automatically connects to the fastest Deco as you move through your home, creating a truly seamless WiFi experience. When a user walks between Deco units, Deco is always learning. Without AI Roaming technology, the network speeds are not always the best. But with the optimization of the AI algorithm, the roaming experience is much smoother, and the overall WiFi performance is greatly improved. Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/).

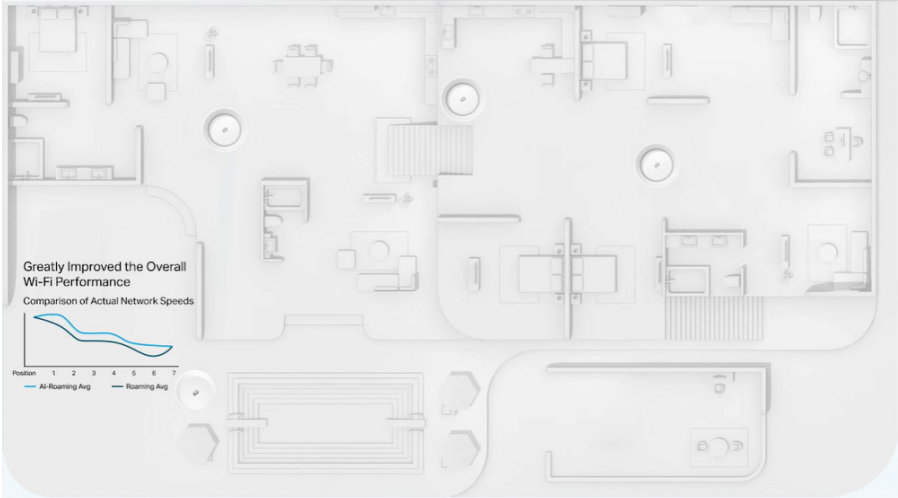
Claim Language	Representative TP-Link Products ¹
	 The diagram shows a top-down view of a house layout. Three Deco BE95 mesh nodes are positioned in different rooms: a living area on the left, a central hallway, and a kitchen area on the right. Each node is represented by a white circular device with concentric blue circles radiating from it, indicating the range of the mesh network. A blue line connects the nodes, showing the mesh topology. Text on the left side of the diagram reads: "Seamless AI-Driven Mesh", "Uninterrupted Streaming When Moving", "Between Rooms and Always", "Connecting to the Optimal Deco". Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/).

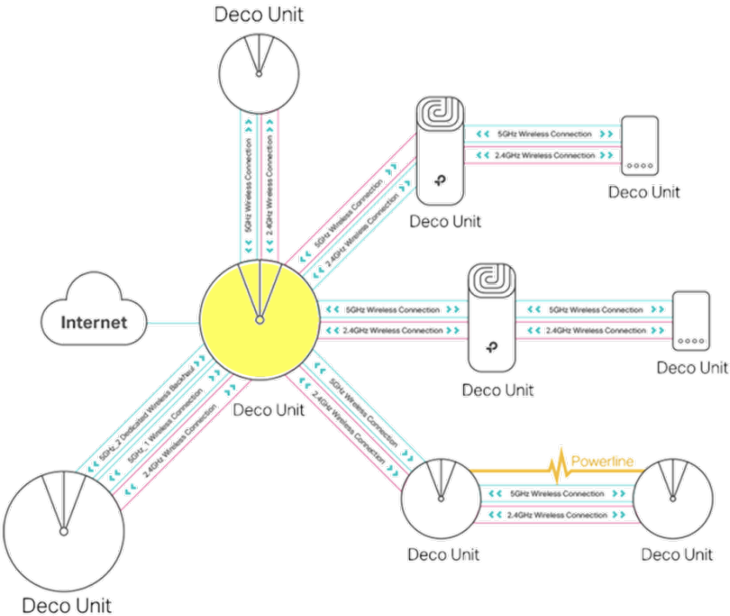
Claim Language	Representative TP-Link Products ¹
	 Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/).
16[b] generating wireless connection quality information at each wireless access device in the plurality of wireless access devices describing the quality of a wireless connection between the wireless device and the wireless access device generating the quality information;	The '025 Accused TP-Link Products generate wireless connection quality information at each wireless access device in the plurality of wireless access devices describing the quality of a wireless connection between the wireless device and the wireless access device generating the quality information. For example: The '025 Accused TP-Link Products support TP-Link Mesh Technology that includes features such as adaptive routing, seamless roaming, self-healing, and AI-Driven Mesh. To support the seamless roaming feature, the Deco nodes generate wireless connection quality information describing the quality of a wireless connection between the wireless device and the Deco node generating the quality information. Each satellite Deco node monitors and measures the quality of the wireless connection to nearby client devices in order to reach a roaming decision, where client devices “automatically connect[] to the fastest Deco as you move through your home.” Exhibit 65

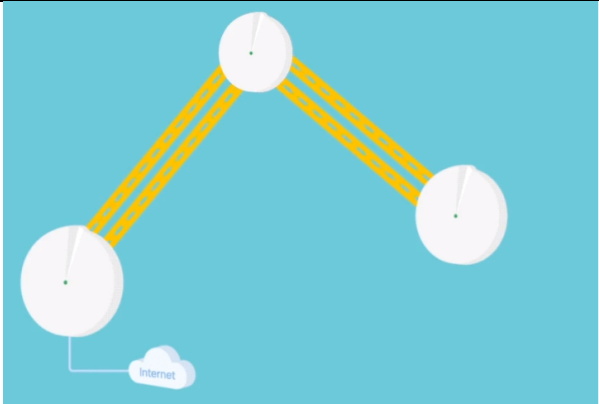
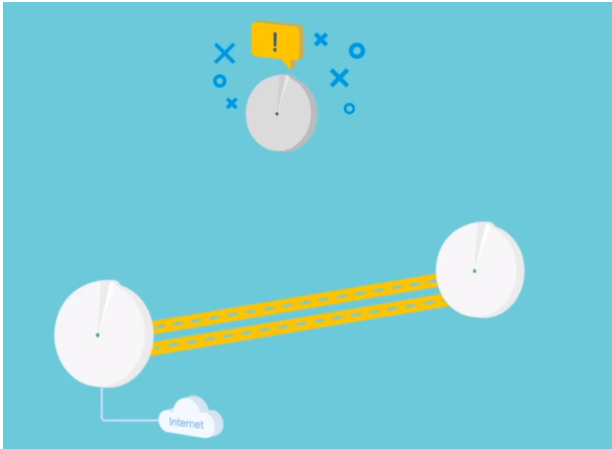
Claim Language	Representative TP-Link Products ¹
	(https://www.tp-link.com/us/mesh/). To do so, each Deco node must generate wireless connection quality information. True Seamless Roaming Deco units work together to form one unified network. Your phone or tablet automatically connects to the fastest Deco as you move through your home, creating a truly seamless online experience. Support for IEEE 802.11r as well as 802.11k/v mean switching from one Deco to another is so smooth it's unnoticeable - even during streaming. Exhibit 65 (https://www.tp-link.com/us/mesh/). To support the AI-Driven Mesh feature, according to TP-Link, the '025 Accused TP-Link Products to “keep[] a close watch on the signal strength of your devices” to “constantly create optimal connections,” “[a]fter self-learning the actual network conditions influencing your Wi-Fi performance.” Exhibit 69 (https://www.tp-link.com/en/mesh/ai-driven-mesh/). In particular, “AI-Roaming guides your device connections to the optimal Deco according to the loading conditions of each node to efficiently utilize your network bandwidth.” <i>Id.</i> To do so, each Deco node must generate wireless connection quality information. AI-Roaming: Always Learning As a smart upgrade to common roaming, AI-Roaming keeps a close watch on the signal strength of your devices. After self-learning the actual network conditions influencing your Wi-Fi performance, AI-Roaming helps your devices seamlessly switch to another source when necessary to constantly create optimal connections. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). Ideal Wi-Fi Unique to Your Home Traditional mesh provides an uninterrupted streaming experience as you move throughout your signal coverage area. However, your network conditions can still be undermined by many other factors in a real environment, such as your router's placement, some thick walls, or even a microwave. Armed with AI-Driven Mesh Technology, Deco automatically learns the network environment, client quality, and user behaviors in your home. With sophisticated, multifactored algorithms, Deco customizes an ideal mesh Wi-Fi solution unique to your home.

Claim Language	Representative TP-Link Products ¹
	Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). Connect to the Optimal Deco AI-Roaming guides your device connections to the optimal Deco according to the loading conditions of each node to efficiently utilize your network bandwidth. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). A Customized Mesh Solution How a mesh network is internally bridged directly affects your Wi-Fi performance. AI-Driven Mesh comprehensively weighs factors that influence your Wi-Fi, all while establishing a mesh network. These factors include the number of your mesh nodes, their product types, and how they connect with each other. After analyzing all of these, AI-Driven Mesh custom creates the ideal mesh Wi-Fi solution for you. Exhibit 69 (https://www.tp-link.com/us/mesh/ai-driven-mesh/). Furthermore, the “Self-Learning Capability” of the AI-Driven Mesh feature allows the ’025 Accused TP-Link Products to “[i]ntelligently learn[] the network environment, client quality, and user behaviors to custom create the optimal Wi-Fi network.” Exhibit 70 (https://www.tp-link.com/us/support/faq/1427/). The AI-Driven Mesh feature allows “Deco units work together to form one unified network with seamless roaming, adaptive path selection, and self-healing,” such that devices “automatically connect[] to the fastest Deco as you move through your home, creating a truly seamless WiFi experience.” Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/). In other words, the ’025 Accused TP-Link Products in a mesh network are actively monitoring the network conditions with respect to all connected client devices. To do so requires that each Deco node generate wireless connection quality information.

Claim Language	Representative TP-Link Products ¹
	AI-Driven Mesh Armed with AI Mesh technology, Deco automatically learns and improves itself from experience. This provides the ideal mesh Wi-Fi unique to your home and network environment. Walkthrough your home and enjoy seamless streaming at the fastest possible speeds. Advanced Algorithms: Automatically adjusts channel settings and transmission power levels of neighboring APs on the same network to provide strong wireless coverage while minimizing wireless interference. Self-Learning Capability: Intelligently learns the network environment, client quality, and user behaviors to custom create the optimal Wi-Fi network. Exhibit 70 (https://www.tp-link.com/us/support/faq/1427/). Seamless AI-Driven Mesh Armed with TP-Link Mesh Technology, Deco units work together to form one unified network with seamless roaming, adaptive path selection, and self-healing. Your phone or tablet automatically connects to the fastest Deco as you move through your home, creating a truly seamless WiFi experience. When a user walks between Deco units, Deco is always learning. Without AI Roaming technology, the network speeds are not always the best. But with the optimization of the AI algorithm, the roaming experience is much smoother, and the overall WiFi performance is greatly improved. Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/). 

Claim Language	Representative TP-Link Products ¹
	Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/).  Exhibit 71 (https://www.tp-link.com/us/exhibition/ces/deco-sandbox/).
16[c] transmitting the wireless connection quality information from the wireless access device to at least a gateway router communicating indirectly using a network extender device to establish the communication path with the wireless access device and communicating with a network external to the extended network.	The '025 Accused TP-Link Products transmit wireless connection quality information from the wireless access device to at least a gateway router communicating indirectly using a network extender device to establish the communication path with the wireless access device and communicating with a network external to the extended network. For example: For information regarding the transmission of wireless connection quality information, <i>see</i> discussion regarding claim limitation [7d]. The '025 Accused TP-Link Products communicate indirectly using a network extender device to establish the communication path with the wireless access device. For example: TP-Link's website provides an example of an extended network with an indirect method of communication. In the following example, communication paths can be created within the mesh

Claim Language	Representative TP-Link Products ¹
	network by using one or more Deco Units between the gateway router Deco node highlighted in yellow, and a client device.  Exhibit 53 (https://www.tp-link.com/us/mesh-wifi/) (annotated). In addition, the TP-Link self-healing feature illustrates that direct or indirect communication paths are possible within the mesh network.

Claim Language	Representative TP-Link Products ¹
	 Self-Healing If one Deco has an issue, the system will automatically reroute data via the other Decos to make sure you stay online. Exhibit 65 (https://www.tp-link.com/us/mesh/) (showing the original mesh network).  Self-Healing If one Deco has an issue, the system will automatically reroute data via the other Decos to make sure you stay online. Exhibit 65 (https://www.tp-link.com/us/mesh/) (showing the self-healed mesh network after a node failure).

Claim Language	Representative TP-Link Products ¹
	For information regarding communication with a network external to the extended network, <i>see</i> discussion regarding claim limitation [1b].