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UNITED STATES DISTRICT COURT

DISTRICT OF NEVADA

* * *

VOIP-PAL.COM, INC., a Nevada corporation, Plaintiff, v. VERIZON WIRELESS SERVICES, LLC, a Delaware limited liability corporation; VERIZON COMMUNICATIONS, INC., a Delaware corporation; AT&T, INC., a Delaware corporation; AT&T CORP., a Delaware corporation; and DOES I through X, inclusive, Defendants.	CASE NO.: **CHART 6 TO EXHIBIT E** **ASSERTED CLAIMS AND INFRINGEMENT CONDITIONS AS AGAINST THE VERIZON ENTITIES**

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CHART 6 TO EXHIBIT E

CHART SUPPORTING ASSERTED CLAIMS AND INFRINGEMENT CONTENTIONS CONCERNING U.S. PATENT NO. 9,179,005

Verizon Wireless Services, Inc. and Verizon Communications, Inc. (collectively, "Verizon") support a Wi-Fi based calling platform ("Verizon Wi-Fi Calling") that includes mobile devices, software running on such devices and servers operated by Verizon that allows calls to be placed over

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Wi-Fi networks. Verizon practices directly and/or indirectly certain claims of U.S. Patent 9,179,005 ("the '005 patent") as illustrated in the chart below.

Verizon Wi-Fi Calling allows a mobile device to initiate a call between a caller, or a first participant, and a callee, or a second participant, using a voice over IP ("VoIP") system, and the callee or second participant may be a Verizon subscriber or a non-subscriber. A profile that includes attributes is used as part of the process that classifies the call. As explained in the chart below, the use of attributes is needed for one or more of the following purposes: 1. interpretation of the callee or second participant identifier; 2 handling of inactive, suspended or blocked accounts; 3. handling customer billing authorization.

This chart applies claims 1, 24 – 26, 49, 50, 73 – 79, 83, 84, 88, 89, 92, 94 – 96, 98 and 99 of the '005 Patent to Verizon Wi-Fi Calling.

U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
1. [1p] A process for producing a routing message for routing communications between a caller and a callee in a communication system, the process comprising:	Verizon Wi-Fi Calling produces a routing message for routing communications between a caller and a callee in a communication system. Verizon supports Wi-Fi Calling on mobile devices including Samsung Galaxy S6 smartphones. 1. What is Wi-Fi Calling? Wi-Fi Calling allows you to make and receive calls over a Wi-Fi network if cellular is not available. The benefits of Wi-Fi Calling include: • It's included at no additional charge with your existing voice plan and compatible device. • You can make and receive calls in Wi-Fi using your phone number. • Wi-Fi calls to US numbers are free, even while traveling internationally. • Video Calls no longer require an LTE connection to be initiated in Wi-Fi. 3. Which devices support Wi-Fi Calling? The Samsung Galaxy S® 6 and Samsung Galaxy S® 6 edge with the latest system update support Wi-Fi Calling. This list of devices will grow over time. Verizon Wi-Fi Calling allows Samsung Galaxy S6 smartphones connected to a Wi-Fi network to place calls to other users.

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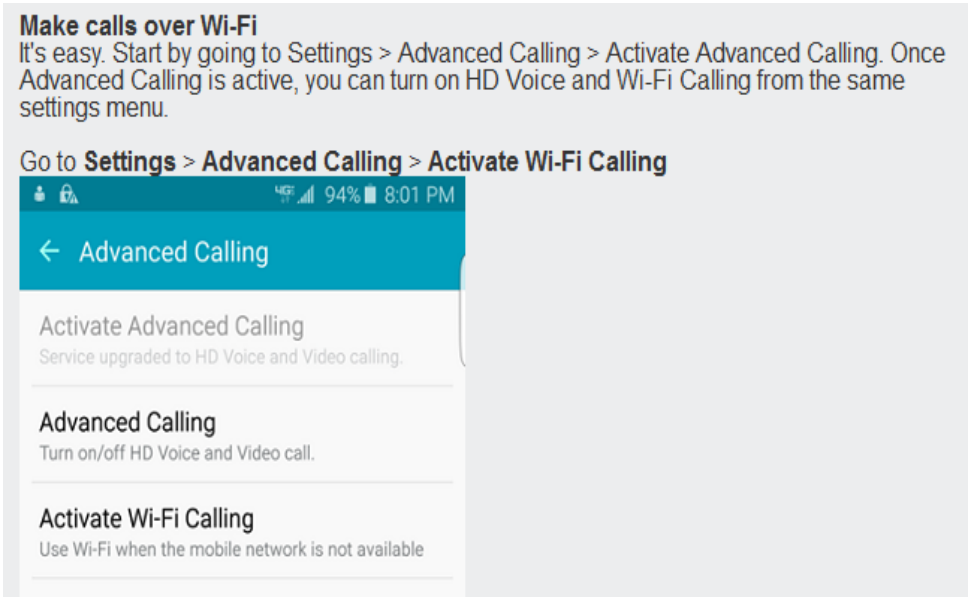
U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
	
[1a] using a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller;	Verizon Wi-Fi Calling uses a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller. The caller identifier includes the phone number of the caller. A call is initiated by the Samsung device beginning with the establishment of communication between the device and a server operated by Verizon. A caller dialing profile including calling attributes includes information used in the classification of a call, such as settings stored on the local device, information stored on Verizon servers, and/or information obtained regarding the connection of the local device to the network.
[1b] when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet private network classification criteria,	Verizon Wi-Fi Calling determines if at least one of the calling attributes and at least a portion of a callee identifier associated with the callee meet private network classification criteria. Verizon Wi-Fi Calling allows calls to be made using Verizon's private network and over the public PSTN network. The callee identifier includes the phone number of the callee. Private network classification criteria represents routing calls over Verizon's private network. Calling attributes are used for a number of different purposes to establish a private network classification criteria. 1. Interpretation of the callee identifier. A private network classification would mean that the call can be sent over Verizon's private network after

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U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
	the callee identifier has been processed according to a caller related interpretation. The callee identifier may need to be interpreted according to the location from which the caller is registered and/or the location from which the caller is currently located, for example to handle international, national and local dialing patterns. Also, abbreviated dialing patterns such as 311, 511 and 811 are handled according to a local calling area. An "Emergency Address" is needed in the case of 911 calls that are handled using Verizon Wi-Fi Calling. 1. Why do I need to set up an address to use Calling on Verizon Messages or Wi-Fi Calling? To offer voice service over the Internet, Verizon is required by the FCC to support 911 calls and collect a registered location to enable it. By registering an address, you are providing information to the Network that determines how your 911 call will route and will be provided to emergency services if you are unable to report your physical location. This address will be used if you call 911 using the Verizon Messages app or if you use Wi-Fi Calling in an area or location where cellular service is not available. This information is not used for billing or other purposes. Whenever possible, use your phone to dial 911 in an emergency and tell the 911 operator where you are. 2. Inactive, suspended or blocked accounts and blocked numbers. A private network classification would mean that the call can be sent over Verizon's private network and the account of the caller is active and/or that the caller's account has not blocked communication with the callee. The caller account could be set up to block certain outgoing calls, such as international calls or toll destinations. The caller account could also be set up to block calls to specific numbers. 3. Billing authorization. A private network classification would mean that call can be sent over Verizon's private network and the caller account has sufficient authorization to process a charge associated with the communication. In cases where a communication involves a charge, the caller account needs to be consulted to validate the customer credit card, to determine if a purchase limit has been reached, and/or to determine if purchases have been blocked altogether.
[1c] producing a private network routing message for receipt by a call controller, said private network routing message identifying an address, on the	Verizon Wi-Fi Calling produces a private network routing message for receipt by a call controller which identifies an address on the private network associated with the callee. The Verizon operated controller routes the call to its own subscriber over its private network.

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U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
private network, associated with the callee; and	
[1d] when at least one of said calling attributes and at least a portion of said callee identifier meet a public network classification criterion,	Verizon Wi-Fi Calling determines if at least one of the calling attributes and at least a portion of the callee identifier meet public network classification criteria. Verizon Wi-Fi Calling allows calls to be made using Verizon's private network and over the public PSTN network. Public network classification criteria represents routing calls over the PSTN network. Calling attributes are used for a number of different purposes to establish a public network classification criteria. <u>1. Interpretation of the callee identifier.</u> A public network classification would mean that the call can be sent over the PSTN network after the callee identifier has been processed according to a caller related interpretation. The callee identifier may need to be interpreted according to the location from which the caller is registered and/or the location from which the caller is currently located, for example to handle international, national and local dialing patterns. Also, abbreviated dialing patterns such as 311, 511 and 811 are handled according to a local calling area. An "Emergency Address" is needed in the case of 911 calls that are handled using Verizon Wi-Fi Calling. 1. Why do I need to set up an address to use Calling on Verizon Messages or Wi-Fi Calling? To offer voice service over the Internet, Verizon is required by the FCC to support 911 calls and collect a registered location to enable it. By registering an address, you are providing information to the Network that determines how your 911 call will route and will be provided to emergency services if you are unable to report your physical location. This address will be used if you call 911 using the Verizon Messages app or if you use Wi-Fi Calling in an area or location where cellular service is not available. This information is not used for billing or other purposes. Whenever possible, use your phone to dial 911 in an emergency and tell the 911 operator where you are. <u>2. Inactive, suspended or blocked accounts.</u> A public network classification would mean that the call can be sent over the PSTN network and the account of the caller is active and/or that the caller's account has not blocked communication with the callee. The caller account could be set up to block certain outgoing calls, such as international calls or toll destinations. The caller account could also be set up to block calls to specific numbers. <u>3. Customer billing authorization.</u> A public network classification would

U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
	mean that call can be sent over the PSTN network and the caller account has sufficient authorization to process a charge associated with the communication. In cases where a communication involves a charge, the caller account needs to be consulted to validate the customer credit card, to determine if a purchase limit has been reached, and/or to determine if purchases have been blocked altogether.
[1e] producing a public network routing message for receipt by the call controller, said public network routing message identifying a gateway to the public network.	Verizon Wi-Fi Calling produces a public network routing message for receipt by a call controller which identifies a gateway to the public network. If a call is made over the PSTN network, a PSTN gateway is identified to route the call.
24. The process of claim 1, further comprising causing the private network routing message or the public network routing message to be communicated to a call controller to effect routing of the call.	Verizon Wi-Fi Calling causes the private network routing message or the public network routing message to be communicated to a call controller to effect routing of the call. Verizon Wi-Fi Calling uses a call routing controller apparatus that comprises the Samsung device and Verizon operated equipment.
25. A non-transitory computer readable medium encoded with codes for directing a processor to execute the method of claim	Verizon Wi-Fi Calling includes a non-transitory computer readable medium encoded with codes for directing a processor to execute the method of claim 1. Verizon Wi-Fi Calling uses processors with instructions in the Samsung device and Verizon operated equipment. See claim elements [1p], [1a], [1b], [1c], [1d] and [1e].

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U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
1.	
26. [26p] A call routing controller apparatus for producing a routing message for routing communications between a caller and a callee in a communication system, the apparatus comprising:	Verizon Wi-Fi Calling include a call routing controller apparatus for producing a routing message for routing communications between a caller and a callee in a communication system. Verizon Wi-Fi Calling uses a call routing controller apparatus that comprises the Samsung device and Verizon operated equipment. See claim element [1p].
[26a] at least one processor operably configured to:	Verizon Wi-Fi Calling includes at least one processor. Verizon Wi-Fi Calling uses processors with instruction in the Samsung device and Verizon operated equipment.
[26b] use a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller;	See claim element [1a].
[26c] when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet private network	See claim element [1b].

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U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
classification criteria,	
[26d] produce a private network routing message for receipt by a call controller, said private network routing message identifying an address, on the private network, associated with the callee; and	See claim element [1c].
[26e] when at least one of said calling attributes and at least a portion of said callee identifier meet a public network classification criterion,	See claim element [1d].
[26f] produce a public network routing message for receipt by the call controller, said public network routing message identifying a gateway to the public network.	See claim element [1e].
49. The apparatus of claim 26, wherein said at	Verizon Wi-Fi Calling causes the private network routing message or the public network routing message to be communicated to a call controller to effect routing of the call.

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U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
least one processor is further operably configured to cause the private network routing message or the public network routing message to be communicated to a call controller to effect routing of the call.	Verizon Wi-Fi Calling uses a call controller that comprises the Samsung device and Verizon operated equipment.
50. [50p] A call routing controller apparatus for producing a routing message for routing communications between a caller and a callee in a communication system, the apparatus comprising:	Verizon Wi-Fi Calling includes a call routing controller apparatus for producing a routing message for routing communications between a caller and a callee in a communication system. Verizon Wi-Fi Calling uses a call routing controller apparatus that comprises the Samsung device and Verizon operated equipment. See claim element [1p].
[50a] means for using a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller; and	See claim element [1a].
[50b] means for,	See claim element [1b].

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U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
when at least one of said calling attributes and at least a portion of a callee identifier associated with the callee meet private network classification criteria,	
[50c] producing a private network routing message for receipt by a call controller, said private network routing message identifying an address, on the private network, associated with the callee; and	See claim element [1c].
[50d] means for, when at least one of said calling attributes and at least a portion of said callee identifier meet a public network classification criterion,	See claim element [1d].
[50e] producing a public network routing message for receipt by the call controller, said public network routing message	See claim element [1e].

U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
identifying a gateway to the public network.	
73. The apparatus of claim 50, further comprising means for causing the private network routing message or the public network routing message to be communicated to a call controller to effect routing of the call.	See claim element [49].
74. [74p] A method of routing communications in a packet switched network in which a first participant identifier is associated with a first participant and a second participant identifier is associated with a second participant in a communication, the method comprising:	Verizon Wi-Fi Calling routes communications in a packet switched network in which a first participant identifier is associated with a first participant and a second participant identifier is associated with a second participant in a communication. Verizon supports Wi-Fi Calling on mobile devices including Samsung Galaxy S6 devices. 1. What is Wi-Fi Calling? Wi-Fi Calling allows you to make and receive calls over a Wi-Fi network if cellular is not The benefits of Wi-Fi Calling include: • It's included at no additional charge with your existing voice plan and compatible de • You can make and receive calls in Wi-Fi using your phone number. • Wi-Fi calls to US numbers are free, even while traveling internationally. • Video Calls no longer require an LTE connection to be initiated in Wi-Fi. 3. Which devices support Wi-Fi Calling? The Samsung Galaxy S® 6 and Samsung Galaxy S® 6 edge with the latest system updat Wi-Fi Calling. This list of devices will grow over time. Verizon Wi-Fi Calling allows mobile devices including Samsung Galaxy

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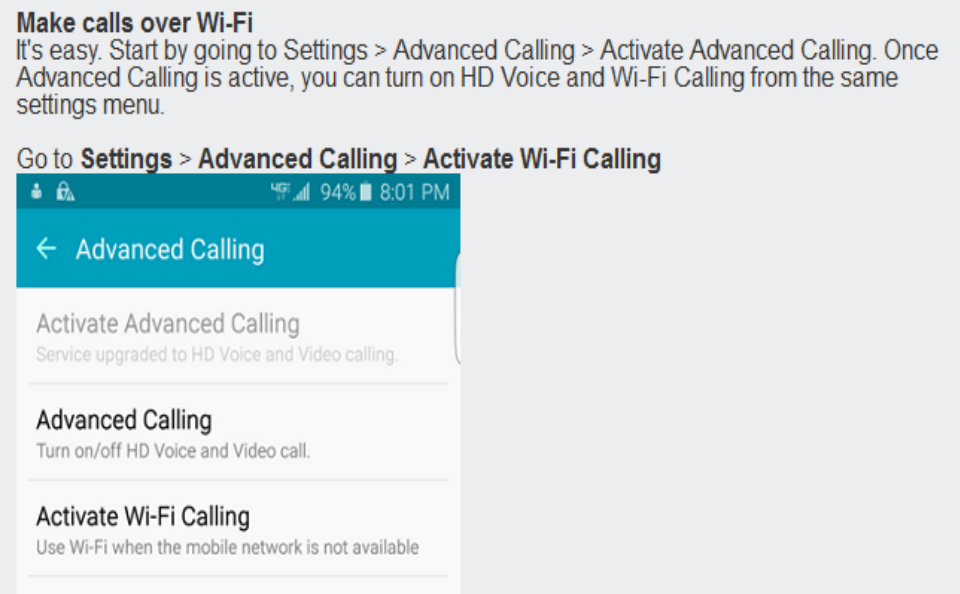
U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
	S6 smartphones connected to a Wi-Fi network to place calls to other users.  Verizon Wi-Fi Calling communicates over a packet switched network. The first participant identifier includes the phone number of the first participant. The second participant identifier includes the phone number of the second participant.
[74a] after the first participant has accessed the packet switched network to initiate the communication, using the first participant identifier to locate a first participant profile comprising a plurality of attributes associated with the first participant;	Verizon Wi-Fi Calling, after the first participant has accessed the packet switched network to initiate the communication, uses the first participant identifier to locate a first participant profile comprising a plurality of attributes associated with the first participant. A call is initiated by the Samsung device beginning with the establishment of communication between the device and a server operated by Verizon. A first participant profile including attributes includes information used in the classification of a call, such as settings stored on the local device, information stored on the Verizon servers, and/or information obtained regarding the connection of the local device to the network.

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U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
[74b] when at least one of the first participant attributes and at least a portion of the second participant identifier meet a first network classification criterion,	Verizon Wi-Fi Calling determines if at least one of the first participant attributes and at least a portion of the second participant identifier meet a first network classification criterion. Verizon Wi-Fi Calling allows calls to be made using Verizon's private network and over the public PSTN network. First network classification criteria represents routing calls over Verizon's private network. Attributes are used for a number of different purposes to establish a first network classification criteria. 1. Interpretation of the second participant identifier. A first network classification would mean that the call can be sent over Verizon's private network after the second participant identifier has been processed according to a first participant related interpretation. The second participant identifier may need to be interpreted according to the location from which the first participant is registered and/or the location from which the first participant is currently located, for example to handle international, national and local dialing patterns. Also, abbreviated dialing patterns such as 311, 511 and 811 are handled according to a local calling area. An "Emergency Address" is needed in the case of 911 calls that are handled using Verizon Wi-Fi Calling. 1. Why do I need to set up an address to use Calling on Verizon Messages or Wi-Fi Calling? To offer voice service over the Internet, Verizon is required by the FCC to support 911 calls and collect a registered location to enable it. By registering an address, you are providing information to the Network that determines how your 911 call will route and will be provided to emergency services if you are unable to report your physical location. This address will be used if you call 911 using the Verizon Messages app or if you use Wi-Fi Calling in an area or location where cellular service is not available. This information is not used for billing or other purposes. Whenever possible, use your phone to dial 911 in an emergency and tell the 911 operator where you are. 2. Inactive, suspended or blocked accounts and blocked numbers. A first network classification would mean that the call can be sent over Verizon's private network and the account of the first participant is active and/or that the first participant's account has not blocked communication with the second participant. The first participant account could be set up to block certain outgoing calls, such as international calls or toll destinations. The first participant account could also be set up to block calls to specific numbers. 3. Billing authorization. A first network classification would mean that call can be sent over Verizon's private network and the first participant

U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
	account has sufficient authorization to process a charge associated with the communication. In cases where a communication involves a charge, the first participant account needs to be consulted to validate the customer credit card, to determine if a purchase limit has been reached, and/or to determine if purchases have been blocked altogether.
[74c] producing a first network routing message for receipt by a controller, the first network routing message identifying an address in a first portion of the packet switched network, the address being associated with the second participant, the first portion being controlled by an entity; and	Verizon Wi-Fi Calling produces a first network routing message for receipt by a controller which identifies an address, associated with the second participant, in a first portion of the packet switched network, which is controlled by an entity. The Verizon operated controller routes the call to its own subscriber over its private network.
[74d] when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion,	Verizon Wi-Fi Calling determines if at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion. Verizon Wi-Fi Calling allows calls to be sent using Verizon's private network and over the public PSTN network. Second network classification criteria represents routing calls over the PSTN network. Calling attributes are used for a number of different purposes to establish a second network classification criteria. <u>1. Interpretation of the second participant identifier.</u> A second network classification would mean that the call can be sent over the PSTN network after the second participant identifier has been processed according to a first participant related interpretation. The second participant identifier may need to be interpreted according to the location from which the first participant is registered and/or the location from which the first participant is currently located, for example to handle international, national and local

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U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
	dialing patterns. Also, abbreviated dialing patterns such as 311, 511 and 811 are handled according to a local calling area. An "Emergency Address" is needed in the case of 911 calls that are handled using Verizon Wi-Fi Calling. 1. Why do I need to set up an address to use Calling on Verizon Messages or Wi-Fi Calling? To offer voice service over the Internet, Verizon is required by the FCC to support 911 calls and collect a registered location to enable it. By registering an address, you are providing information to the Network that determines how your 911 call will route and will be provided to emergency services if you are unable to report your physical location. This address will be used if you call 911 using the Verizon Messages app or if you use Wi-Fi Calling in an area or location where cellular service is not available. This information is not used for billing or other purposes. Whenever possible, use your phone to dial 911 in an emergency and tell the 911 operator where you are. 2. Inactive, suspended or blocked accounts. A second network classification would mean that the call can be sent over the PSTN network and the account of the first participant is active and/or that the first participant's account has not blocked communication with the second participant. The first participant account could be set up to block certain outgoing calls, such as international calls or toll destinations. The first participant account could also be set up to block calls to specific numbers. 3. Customer billing authorization. A second network classification would mean that call can be sent over the PSTN network and the caller account has sufficient authorization to process a charge associated with the communication. In cases where a communication involves a charge, the caller account needs to be consulted to validate the customer credit card, to determine if a purchase limit has been reached, and/or to determine if purchases have been blocked altogether.
[74e] producing a second network routing message for receipt by the controller, the second network routing message identifying an address in a second portion of the packet switched network, the second portion	Verizon Wi-Fi Calling produces a second network routing message for receipt by the controller which identifies an address in a second portion of the packet switched network, which is not controlled by the entity. If a call is made over the PSTN network, a PSTN gateway is identified to route the call.

U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
not controlled by the entity.	
75. The method of claim 74, wherein the packet switched network comprises the Internet.	In Verizon Wi-Fi Calling the packet switched network includes the Internet.
76. The method of claim 74, wherein the first participant identifier comprises a first participant telephone number or username.	In Verizon Wi-Fi Calling the first participant identifier comprises a first participant telephone number or username.
77. The method of claim 74, wherein the second participant identifier comprises a second participant telephone number or username.	In Verizon Wi-Fi Calling the second participant identifier comprises a second participant telephone number or username.
78. The method of claim 74, wherein the communication comprises a voice-over-IP communication.	In Verizon Wi-Fi Calling the communication comprises a voice-over-IP communication.
79. The method	In Verizon Wi-Fi Calling the packet switched network is accessed via an

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U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
of claim 74, wherein the packet switched network is accessed via an Internet service provider.	Internet service provider.
83. The method of claim 74, wherein the first network classification criterion is satisfied when an address associated with the first participant and the address associated with the second participant are both in the first portion of the packet switched network.	In Verizon Wi-Fi Calling the first network classification criterion is satisfied when an address associated with the first participant and the address associated with the second participant are both in the first portion of the packet switched network.
84. The method of claim 74, wherein the address in the first portion is accessible through the first participant's Internet service provider.	In Verizon Wi-Fi Calling the address in the first portion is accessible through the first participant's Internet service provider.
88. The method of claim 74, wherein the entity is an entity supplying	In Verizon Wi-Fi Calling the entity is an entity supplying communication services for the first portion.

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U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
communication services for the first portion.	
89. The method of claim 74, wherein the second network classification criterion is satisfied when access to the second participant requires routing through a portion of the packet switched network operated by a communication service supplier.	In Verizon Wi-Fi Calling the second network classification criterion is satisfied when access to the second participant requires routing through a portion of the packet switched network operated by a communication service supplier.
92. The method of claim 74, wherein the address in the second portion of the packet switched network comprises an address accessed by a communication service supplier.	In Verizon Wi-Fi Calling the address in the second portion of the packet switched network comprises an address accessed by a communication service supplier.
94. [94p] A system for routing communications in a packet switched network in which	Verizon Wi-Fi Calling routes communications in a packet switched network in which a first participant in a communication has an associated first participant identifier and a second participant in the communication has an associated second participant identifier. See claim element [74p].

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U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
a first participant in a communication has an associated first participant identifier and a second participant in the communication has an associated second participant identifier, the system comprising:	
[94a] a controller comprising: a processor operably configured to access a memory, wherein the processor is configured to:	Verizon Wi-Fi Calling includes a controller comprising a processor operably configured to access a memory. Verizon Wi-Fi Calling uses a controller with processors, memory and instructions that includes the Samsung device and Verizon operated equipment.
[94b] after the first participant has accessed the packet switched network to initiate the communication, locate a first participant profile in the memory using the first participant identifier, the first participant profile comprising a	See claim element [74a].

U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
plurality of attributes associated with the first participant;	
[94c] produce a first network routing message when at least one of the first participant attributes and at least a portion of the second participant identifier meet a first network classification criterion,	See claim element [74b].
[94d] the first network routing message identifying an address in a first portion of the packet switched network, the address being associated with the second participant, the first portion being controlled by an entity; and	See claim element [74c].
[94e] produce a second network routing message when at least one of the first participant attributes and at	See claim element [74d].

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U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
least a portion of the second participant identifier meet a second network classification criterion,	
[94f] the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by the entity.	See claim element [74e].
95. The system of claim 94, wherein the communication comprises a voice-over-IP communication.	See claim 78.
96. The system of claim 94, wherein the packet switched network is accessed via an Internet service provider.	See claim 79.
98. The system of claim 94, wherein the second network classification criterion is	See claim 89.

U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
satisfied when access to the second participant requires routing through a portion of the packet switched network operated by a communication service supplier.	
99. [99p] A non-transitory computer readable medium comprising instructions that when executed cause a processor to perform a method of routing communications in a packet switched network in which a first participant identifier is associated with a first participant and a second participant identifier is associated with a second participant in a communication, the method comprising:	Verizon Wi-Fi Calling includes a non-transitory computer readable medium comprising instructions that when executed cause a processor to perform a method of routing communications in a packet switched network in which a first participant identifier is associated with a first participant and a second participant identifier is associated with a second participant in a communication Verizon Wi-Fi Calling uses processors with instructions in the Samsung device and Verizon operated equipment. See claim element [74p].
[99a] after the first participant	See claim element [74a].

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Claim	**Accused Device/Instrumentality**
has accessed the packet switched network to initiate the communication, using the first participant identifier to locate a first participant profile comprising a plurality of attributes associated with the first participant;	
[99b] when at least one of the first participant attributes and at least a portion of the second participant identifier meet a first network classification criterion,	See claim element [74b].
[99c] producing a first network routing message for receipt by a controller, the first network routing message identifying an address in a first portion of the packet switched network, the address being associated with	See claim element [74c].

U.S. Patent No. 9,179,005	
Claim	**Accused Device/Instrumentality**
the second participant, the first portion being controlled by an entity; and	
[99d] when at least one of the first participant attributes and at least a portion of the second participant identifier meet a second network classification criterion,	See claim element [74d].
[99e] producing a second network routing message for receipt by the controller, the second network routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by the entity.	See claim element [74e].

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