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12 UNITED STATES DISTRICT COURT

13 DISTRICT OF NEVADA

14 \* \* \*

15 VOIP-PAL.COM, INC., a Nevada corporation,

CASE NO.:

16 Plaintiff,

17 v.

**CHART 4 TO EXHIBIT F**

18 VERIZON WIRELESS SERVICES, LLC, a  
19 Delaware limited liability corporation;  
20 VERIZON COMMUNICATIONS, INC., a  
21 Delaware corporation; AT&T, INC., a  
22 Delaware corporation; AT&T CORP., a  
23 Delaware corporation; and DOES I through X,  
24 inclusive,

**ASSERTED CLAIMS AND  
INFRINGEMENT CONDITIONS AS  
AGAINST THE AT&T ENTITIES**

25 Defendants.

**CHART 4 TO EXHIBIT F**

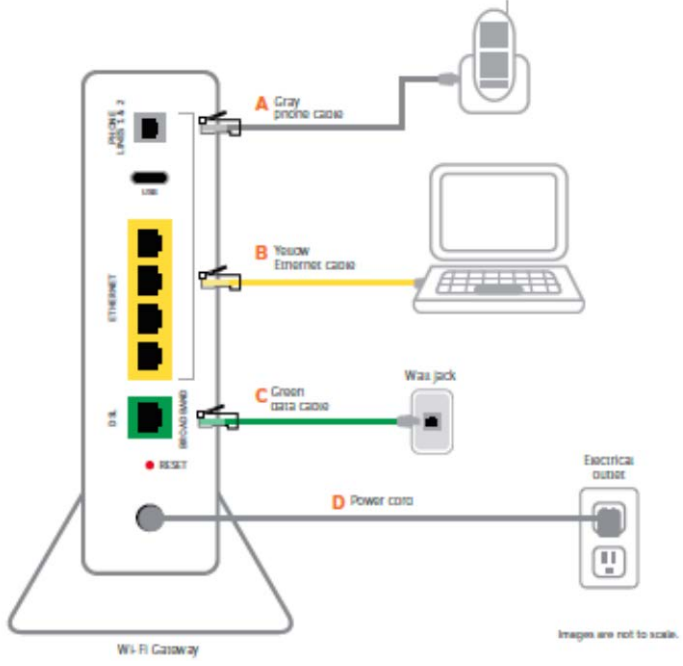
**CHART SUPPORTING ASSERTED CLAIMS AND INFRINGEMENT CONTENTIONS  
CONCERNING U.S. PATENT NO. 9,179,005**

26 AT&T, Inc. and AT&T Corp. (collectively, "AT&T") offer Voice over IP products and  
27 services ("AT&T VoIP") utilizing equipment at the customer or business premises and a collection  
28 of servers and gateways. AT&T practices certain claims of U.S. Patent 9,179,005 ("the '005  
Patent") as illustrated in the chart below.

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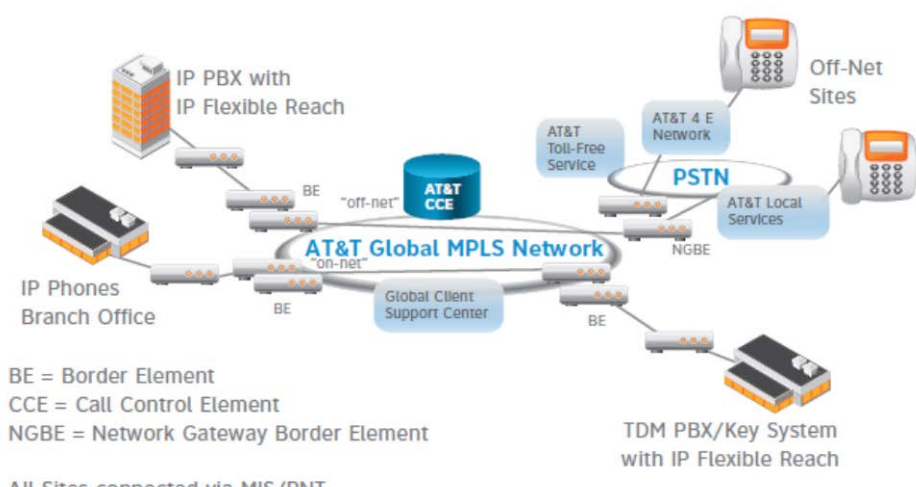
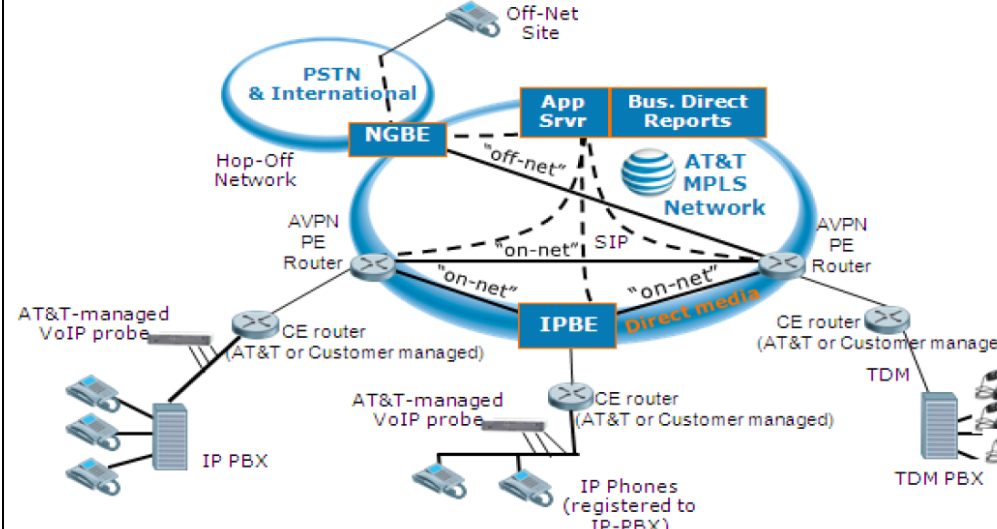
AT&T on-premises equipment initiates a call and identifies a caller, or first participant, and a callee, or second participant. The callee or second participant may be an AT&T subscriber, or a non-subscriber. A profile that includes attributes is used as part of the process that classifies the call.

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 AT&T VoIP.

<b>U.S. Patent No. 9,179,005</b>	
<b>Claim</b>	<b>Accused Device/Instrumentality</b>
<p>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:</p>	<p>AT&amp;T VoIP produces a routing message for routing communications between a caller and a callee in a communication system.</p> <p>AT&amp;T offers VoIP services to home users and business customers via their U-Verse Voice service. AT&amp;T enterprise products and services include AT&amp;T Voice DNA, AT&amp;T IP Flexible Reach, AT&amp;T SIP Trunking, AT&amp;T Hosted VoIP, AT&amp;T Business in a Box and AT&amp;T UC Voice.</p> <p>AT&amp;T's U-Verse Voice service uses a VDSL gateway at the customer premises is coupled to a DSL connection to the AT&amp;T network.</p> <div style="text-align: center;">  <p>The diagram shows a Wi-Fi Gateway device with four ports: ADSL2+, VOIP, ETHERNET, and DSL. A gray phone cable (A) connects the VOIP port to a mobile phone. A yellow Ethernet cable (B) connects the ETHERNET port to a laptop. A green data cable (C) connects the DSL port to a wall jack. A power cord (D) connects the bottom of the gateway to an electrical outlet. A 'RESET' button is also visible on the gateway. The text 'Images are not to scale.' is at the bottom right of the diagram.</p> </div> <p>The VDSL gateway is attached to a local phone and allows phone calls to others anywhere in the world, to both AT&amp;T subscribers and to non-</p>

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**U.S. Patent No. 9,179,005**


Claim	Accused Device/Instrumentality
	<p>subscribers.</p> <p>AT&amp;T IP Flexible Reach supports routing calls to callees via gateways such as public switched telephone network (PSTN) gateways. "On-net" calls are routed through AT&amp;T's private network and "off-net" calls are routed over PSTN networks.</p> <p style="text-align: center;"><b>IP Flexible Reach for TDM and IP PBXs</b></p>  <p>BE = Border Element          CCE = Call Control Element          NGBE = Network Gateway Border Element</p> <p>All Sites connected via MIS/PNT</p> <p style="text-align: center;"><b>Service Components, standard and options</b></p> 
<p>[1a] using a caller identifier associated with the caller to locate a caller</p>	<p>AT&amp;T VoIP uses a caller identifier associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller.</p> <p>AT&amp;T equipment and services utilize a SIP or similar protocol for voice</p>

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U.S. Patent No. 9,179,005	
Claim	Accused Device/Instrumentality
<p>dialing profile comprising a plurality of calling attributes associated with the caller;</p>	<p>call initiation. In the SIP protocol an “INVITE” message is used as part of the call setup process, such as is described in RFC 3261. The caller identifier includes information in the “From:” part of the SIP invite message, which includes a phone number of the caller and/or another identification of the caller device. Calling attributes are looked up by on-premises equipment and/or by one or more AT&amp;T servers based on the caller identifier.</p> <p>A caller dialing profile including calling attributes includes information used in the classification of a call, such as settings stored on the on-premises equipment, information stored on AT&amp;T servers, and/or information obtained regarding the connection of the caller device to the network.</p>
<p>[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,</p>	<p>AT&amp;T VoIP 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.</p> <p>AT&amp;T VoIP allows calls to be made using AT&amp;T’s private network and over a public network such as the PSTN. The callee identifier includes a phone number associated with the callee. Private network classification criteria represents routing calls over AT&amp;T’s private network. Calling attributes are used to establish a private network classification criteria.</p> <p>One example of calling attributes being used to establish private network classification criteria is the use of caller related information to interpret the callee identifier. 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, or to interpret local extension numbers within an enterprise. 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 AT&amp;T VoIP. For example, AT&amp;T UC Voice allows a dialing plan to be configured to set up a dialing pattern for individual lines.</p> <p style="color: green;"><b>Configure Dial Plan</b></p> <p>In the examples shown below, four normalization rules created under the Global dial plan are used to normalize enterprise voice calls. The rules normalize 4-digit and 10-digit numbers dialed in Lync to corresponding E.164 numbers, along with calls to international phone numbers and 7-digit numbers used by UC Voice users.</p> <p>Another example of calling attributes being used to establish private network classification criteria is the use of caller account status</p>

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U.S. Patent No. 9,179,005

Claim	Accused Device/Instrumentality
	<p>information. If the account of the caller is active and has not blocked communication with the callee and the callee is an AT&amp;T subscriber, then the call can be made using AT&amp;T's private network. 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.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>Cancel Call Waiting</b>            Allows you to cancel Call Waiting for a specific call, for all calls or during a current call.</p> <ul style="list-style-type: none"> <li>• Per-Call Cancel: *70 + dial number #</li> <li>• To Deactivate for all calls: OFF: *370#</li> <li>• To Reactivate: ON: *371#</li> <li>• Call Waiting Mid-Call Cancel: Flash + *70# + Flash</li> </ul> <p><b>Directory Assistance Blocking</b>            Directory Assistance Blocking allows you to prevent all outgoing calls to Directory Assistance (such as 411 or information).</p> <p><b>Do Not Disturb</b>            Gives you the option to turn off the ringer on your phone. This can be done from either the handset or from here. A busy signal will be heard by the caller when Do Not Disturb is turned on.</p> <ul style="list-style-type: none"> <li>• ON: *78#</li> <li>• OFF: *79#</li> </ul> </div> <div style="width: 45%;"> <p><b>International Call Blocking</b>            International Call Blocking allows you to prevent all outgoing calls to international numbers (when dialing starts with 011 or 010).</p> <p><b>Locate Me</b>            Never miss an incoming call again! Not only will your U-verse Voice number ring, but up to four other numbers will all ring at the same time. Enter numbers on your "Locate Me" list—online at att.com/myatt.</p> <ul style="list-style-type: none"> <li>• ON: Activated Online</li> <li>• OFF: *313#</li> </ul> <p><b>Three-Way Calling</b>            Allows you to add a third party to an existing conversation.</p> <ul style="list-style-type: none"> <li>• Flash + dial number + Flash</li> </ul> </div> </div> <div style="text-align: center; margin-top: 20px;">  <p>Sign up for AT&amp;T U-verse<sup>®</sup>  <b>vacation hold</b></p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;"> <p>Place your U-verse TV, Voice line(s) and High Speed Internet, if applicable*, on hold for \$5 a month each. Vacation Hold can be activated for a minimum period of 2 months and a maximum period of 9 months over a 12 month period. ** To be eligible, your U-verse account must be in good standing and you must have had service for at least 30 days.</p> </div> <p><small>* If you have U-verse TV, Voice and High Speed Internet you will be required to put all three on hold, including all U-verse Voice line(s).</small></p> <p><small>** Each U-verse account is only allowed to place their service on Vacation Hold twice within 12 months. Customer can call AT&amp;T at 1.800.288.2020 to restore any U-verse service(s) placed on hold, if customer does not call and restore, service(s) will be restored on the restoral date selected below.</small></p> <p>AT&amp;T IP Flexible Reach allows control of outbound calling features to permit calling restrictions on a line by line basis.</p>



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U.S. Patent No. 9,179,005	
Claim	Accused Device/Instrumentality
	<p style="text-align: center;"><b>Manage Outbound Call Features</b></p> <p><a href="#">Edit Account Code Status</a>  <a href="#">Edit Dial Restrictions</a></p> <p>As an Enterprise Administrator for the AT&amp;T IP Flexible Reach Customer Portal, you can manage outbound call features, including account codes and dial restrictions.</p> <p>To see and edit a user's outbound features, go to a <a href="#">User Details page</a> and click the <b>Outbound Fe</b> tab.</p> <p style="text-align: center;"><b>About Dial Restrictions</b></p> <p>Dial restrictions are limitations that you can put on a group's outgoing calls. You can also set custom restrictions for individuals.</p> <p>Using dial restrictions, you can block users from making certain types of call, such as calls to international or toll-free numbers. You can also use dial restrictions to require an authorization code for certain types of outgoing calls.</p> <p>Dial restrictions can be used with these types of calls:</p> <ul style="list-style-type: none"> <li>• Intra-enterprise</li> <li>• Domestic</li> <li>• Toll-free</li> <li>• International</li> <li>• Operator Assistance</li> <li>• Directory Assistance</li> </ul> <p>You can view and edit dial restrictions for groups from the <b>Settings</b> tab on a <a href="#">Group Details page</a>.</p> <p>You can view and edit dial restrictions for individual users from the <b>Outbound Features</b> tab of a <a href="#">User Details page</a>.</p> <p>Another example of calling attributes being used to establish private network classification criteria is determining if the caller account has sufficient authorization to process a charge associated with the communication. If a call involves a charge and the caller account can process the charge, and the callee is an AT&amp;T subscriber, then the call can be made using AT&amp;T's private network.</p>
<p>[1c] producing a private network routing message for receipt by a call controller, said private network routing message identifying an</p>	<p>AT&amp;T VoIP produces a private network routing message for receipt by a call controller which identifies an address on the private network associated with the callee.</p> <p>The AT&amp;T operated controller routes the call using a routing message to its own subscriber over its private network.</p>

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U.S. Patent No. 9,179,005	
Claim	Accused Device/Instrumentality
<p>address, on the private network, associated with the callee; and</p>	
<p>[1d] when at least one of said calling attributes and at least a portion of said callee identifier meet a public network classification criterion,</p>	<p>AT&amp;T VoIP determines if at least one of the calling attributes and at least a portion of the callee identifier meet public network classification criteria.</p> <p>AT&amp;T VoIP allows calls to be made using AT&amp;T's private network and over a public network such as the PSTN. Public network classification criteria represents routing calls over a public network such as the PSTN. Calling attributes are used to establish a public network classification criteria.</p> <p>One example of calling attributes being used to establish public network classification criteria is the use of caller related information to interpret the callee identifier. 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, or to interpret local extension numbers within an enterprise. 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 AT&amp;T VoIP. For example, AT&amp;T UC Voice allows a dialing plan to be configured to set up a dialing pattern for individual lines.</p> <p style="color: green;"><b>Configure Dial Plan</b></p> <p>In the examples shown below, four normalization rules created under the Global dial plan are used to normalize enterprise voice calls. The rules normalize 4-digit and 10-digit numbers dialed in Lync to corresponding E.164 numbers, along with calls to international phone numbers and 7-digit numbers for UC Voice users.</p> <p>Another example of calling attributes being used to establish public network classification criteria is the use of caller account status information. If the account of the caller is active and has not blocked communication with the callee and the callee is not an AT&amp;T subscriber, then the call must be made using a public network such as the PSTN. 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.</p>

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U.S. Patent No. 9,179,005

Claim	Accused Device/Instrumentality
	<div data-bbox="568 315 909 420"> <p><b>Cancel Call Waiting</b>            Allows you to cancel Call Waiting for a specific call, for all calls or during a current call.</p> </div> <div data-bbox="568 420 909 630"> <ul style="list-style-type: none"> <li>• Per-Call Cancel: *70 + dial number #</li> <li>• To Deactivate for all calls: OFF: *370#</li> <li>• To Reactivate: ON: *371#</li> <li>• Call Waiting Mid-Call Cancel: Flash + *70# + Flash</li> </ul> </div> <div data-bbox="568 630 909 735"> <p><b>Directory Assistance Blocking</b>            Directory Assistance Blocking allows you to prevent all outgoing calls to Directory Assistance (such as 411 or information).</p> </div> <div data-bbox="568 735 909 945"> <p><b>Do Not Disturb</b>            Gives you the option to turn off the ringer on your phone. This can be done from either the handset or from here. A busy signal will be heard by the caller when Do Not Disturb is turned on.</p> <ul style="list-style-type: none"> <li>• ON: *78#</li> <li>• OFF: *79#</li> </ul> </div> <div data-bbox="974 315 1315 441"> <p><b>International Call Blocking</b>            International Call Blocking allows you to prevent all outgoing calls to international numbers (when dialing starts with 011 or 010).</p> </div> <div data-bbox="974 441 1315 672"> <p><b>Locate Me</b>            Never miss an incoming call again! Not only will your U-verse Voice number ring, but up to four other numbers will all ring at the same time. Enter numbers on your "Locate Me" list—online at att.com/myatt.</p> <ul style="list-style-type: none"> <li>• ON: Activated Online</li> <li>• OFF: *313#</li> </ul> </div> <div data-bbox="974 672 1315 798"> <p><b>Three-Way Calling</b>            Allows you to add a third party to an existing conversation.</p> <ul style="list-style-type: none"> <li>• Flash + dial number + Flash</li> </ul> </div> <div data-bbox="544 1018 1112 1375"> <p>The graphic features the text "Sign up for AT&amp;T U-verse" in a blue script font, with "vacation hold" in a large, bold, white font inside an orange speech bubble. The background consists of several blue circles of varying sizes and a stylized orange leaf-like shape.</p> </div> <div data-bbox="1153 1018 1485 1281"> <p>Place your U-verse TV, Voice line(s) and High Speed Internet, if applicable*, on hold for \$5 a month each. Vacation Hold can be activated for a minimum period of 2 months and a maximum period of 9 months over a 12 month period. ** To be eligible, your U-verse account must be in good standing and you must have had service for at least 30 days.</p> </div> <div data-bbox="1144 1291 1494 1396"> <p><small>* If you have U-verse TV, Voice and High Speed Internet you will be required to put all three on hold, including all U-verse Voice line(s).      ** Each U-verse account is only allowed to place their service on Vacation Hold twice within 12 months. Customer can call AT&amp;T at 1.800.288.2020 to restore any U-verse services(s) placed on hold; if customer does not call and restore, service(s) will be restored on the restore date selected below.</small></p> </div> <div data-bbox="544 1428 1469 1512"> <p>AT&amp;T IP Flexible Reach allows control of outbound calling features to permit calling restrictions on a line by line basis.</p> </div> <div data-bbox="568 1564 1323 1627"> <h2>Manage Outbound Call Features</h2> </div> <div data-bbox="568 1648 828 1711"> <p><a href="#">Edit Account Code Status</a>  <a href="#">Edit Dial Restrictions</a></p> </div> <div data-bbox="568 1722 1534 1785"> <p>As an Enterprise Administrator for the AT&amp;T IP Flexible Reach Customer Portal, you can manage outbound call features, including account codes and dial restrictions.</p> </div> <div data-bbox="568 1795 1534 1858"> <p>To see and edit a user's outbound features, go to a <a href="#">User Details page</a> and click the <b>Outbound Fe</b> tab.</p> </div>



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U.S. Patent No. 9,179,005	
Claim	Accused Device/Instrumentality
	<h2 style="color: #0070C0;">About Dial Restrictions</h2> <p>Dial restrictions are limitations that you can put on a group’s outgoing calls. You can also set custom restrictions for individuals.</p> <p>Using dial restrictions, you can block users from making certain types of call, such as calls to internal or toll-free numbers. You can also use dial restrictions to require an authorization code for certain types of outgoing calls.</p> <p>Dial restrictions can be used with these types of calls:</p> <ul style="list-style-type: none"> <li>• Intra-enterprise</li> <li>• Domestic</li> <li>• Toll-free</li> <li>• International</li> <li>• Operator Assistance</li> <li>• Directory Assistance</li> </ul> <p>You can view and edit dial restrictions for groups from the <b>Settings</b> tab on a <a href="#">Group Details page</a>.</p> <p>You can view and edit dial restrictions for individual users from the <b>Outbound Features</b> tab of a <a href="#">User Details page</a>.</p> <p>Another example of calling attributes being used to establish public network classification criteria is determining if the caller account has sufficient authorization to process a charge associated with the communication. If a call involves a charge and the caller account can process the charge, and the callee is not an AT&amp;T subscriber, then the call must be made using a public network such as the PSTN.</p>
[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.	<p>AT&amp;T VoIP produces a public network routing message for receipt by a call controller which identifies a gateway to the public network.</p> <p>If a call is made over a public network, the AT&amp;T operated controller routes the call using a routing message to a gateway associated with a public network such as the PSTN.</p>
24. The process of claim 1, further comprising causing the private network	<p>AT&amp;T VoIP 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.</p> <p>AT&amp;T VoIP uses a call routing controller apparatus that includes the on-premises equipment and/or AT&amp;T operated equipment.</p>

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U.S. Patent No. 9,179,005	
Claim	Accused Device/Instrumentality
routing message or the public network routing message to be communicated to a call controller to effect routing of the call.	
25. A non-transitory computer readable medium encoded with codes for directing a processor to execute the method of claim 1.	<p>AT&amp;T VoIP includes a non-transitory computer readable medium encoded with codes for directing a processor to execute the method of claim 1.</p> <p>AT&amp;T VoIP uses processors with instructions in the on-premises equipment and/or AT&amp;T operated equipment.</p> <p>See claim elements [1p], [1a], [1b], [1c], [1d] and [1e].</p>
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:	<p>AT&amp;T VoIP include a call routing controller apparatus for producing a routing message for routing communications between a caller and a callee in a communication system.</p> <p>AT&amp;T VoIP uses a call routing controller apparatus that includes the on-premises equipment and/or AT&amp;T operated equipment.</p> <p>See claim element [1p].</p>
[26a] at least one processor operably configured to:	<p>AT&amp;T VoIP includes at least one processor.</p> <p>AT&amp;T VoIP uses processors with instruction in the on-premises equipment and/or AT&amp;T operated equipment.</p>
[26b] use a caller identifier	See claim element [1a].

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U.S. Patent No. 9,179,005	
Claim	Accused Device/Instrumentality
associated with the caller to locate a caller dialing profile comprising a plurality of calling attributes associated with the caller;	
[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 classification criteria,	See claim element [1b].
[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	See claim element [1d].

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U.S. Patent No. 9,179,005	
Claim	Accused Device/Instrumentality
classification criterion,	
[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 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.	<p>AT&amp;T VoIP 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.</p> <p>AT&amp;T VoIP uses a call controller that includes the on-premises equipment and/or AT&amp;T operated equipment.</p>
50. [50p] A call routing controller apparatus for producing a routing message for routing communications between a caller and a callee in a	<p>AT&amp;T VoIP includes a call routing controller apparatus for producing a routing message for routing communications between a caller and a callee in a communication system.</p> <p>AT&amp;T VoIP uses a call routing controller apparatus that includes the on-premises equipment and/or AT&amp;T operated equipment.</p> <p>See claim element [1p].</p>

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U.S. Patent No. 9,179,005	
Claim	Accused Device/Instrumentality
communication system, the apparatus comprising:	
[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, 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,	See claim element [1b].
[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].

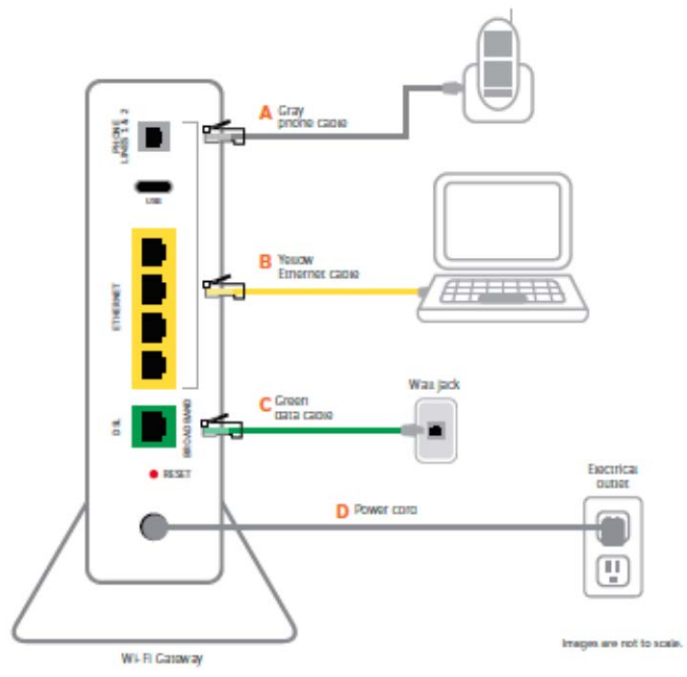


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U.S. Patent No. 9,179,005	
Claim	Accused Device/Instrumentality
[50d] means for, when at least one of said calling attributes and at least a portion of said callee identifier meet a public network classification criterion,	See claim element [1d].
[50e] producing a public network routing message for receipt by the call controller, said public network routing message identifying a gateway to the public network.	See claim element [1e].
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	AT&T VoIP 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.

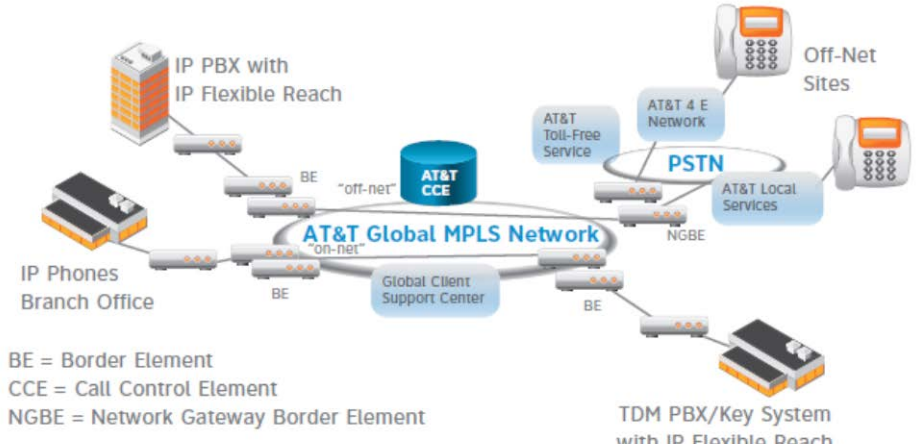
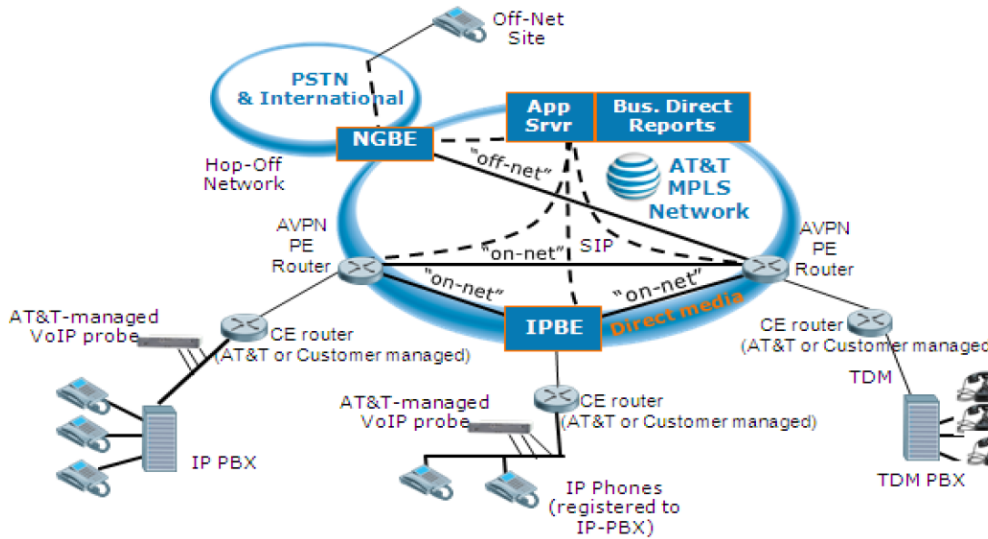
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**U.S. Patent No. 9,179,005**

Claim	Accused Device/Instrumentality
<p>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:</p>	<p>AT&amp;T offers VoIP services to home users and business customers via their U-Verse Voice service. AT&amp;T enterprise products and services include AT&amp;T Voice DNA, AT&amp;T IP Flexible Reach, AT&amp;T SIP Trunking, AT&amp;T Hosted VoIP, AT&amp;T Business in a Box and AT&amp;T UC Voice.</p> <p>AT&amp;T's U-Verse Voice service uses a VSDL gateway at the customer premises is coupled to a DSL connection to the AT&amp;T network.</p>  <p>The VDSL gateway is attached to a local phone and allows phone calls to others anywhere in the world, to both AT&amp;T subscribers and to non-subscribers.</p> <p>AT&amp;T IP Flexible Reach supports routing calls to callees via gateways such as public switched telephone network gateways (PSTN gateways). “On-net” calls are routed through AT&amp;T’s private network and “off-net” calls are routed over PSTN networks.</p>

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U.S. Patent No. 9,179,005

Claim	Accused Device/Instrumentality
	<p data-bbox="584 304 1234 346"><b>IP Flexible Reach for TDM and IP PBXs</b></p>  <p data-bbox="584 724 1006 808">BE = Border Element              CCE = Call Control Element              NGBE = Network Gateway Border Element</p> <p data-bbox="584 829 909 861">All Sites connected via MIS/PNT</p> <p data-bbox="560 892 1112 934"><b>Service Components, standard and options</b></p>  <p data-bbox="544 1522 1323 1564">AT&amp;T VoIP communicates over a packet switched network.</p> <p data-bbox="544 1596 1518 1753">The first participant identifier includes a phone number of the first participant, and/or another identification of the first participant device. The second participant identifier includes a phone number associated with the second participant.</p>
<p data-bbox="292 1785 527 1932">[74a] after the first participant has accessed the packet switched</p>	<p data-bbox="544 1785 1526 1932">AT&amp;T VoIP, 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.</p>

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U.S. Patent No. 9,179,005	
Claim	Accused Device/Instrumentality
<p>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;</p>	<p>AT&amp;T equipment and services utilize a SIP or similar protocol for voice call initiation. In the SIP protocol an “INVITE” message is used as part of the call setup process, such as is described in RFC 3261. The first participant identifier includes information in the “From:” part of the SIP invite message, which includes a phone number of the first participant and/or another identification of the first participant device. Attributes are looked up by on-premises equipment or by one or more AT&amp;T servers based on the first participant identifier.</p> <p>A call is initiated by the on-premises equipment beginning with the establishment of communication between the device and a server operated by AT&amp;T. A first participant profile including attributes includes information used in the classification of a call, such as settings stored on the on-premises device, information stored on the AT&amp;T servers, and/or information obtained regarding the connection of the first participant device to the network.</p>
<p>[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,</p>	<p>AT&amp;T VoIP 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.</p> <p>AT&amp;T VoIP allows calls to be made using AT&amp;T’s private network and over a public network such as the PSTN. First network classification criteria represents routing calls over AT&amp;T’s private network. First participant attributes are used to establish a first network classification criteria.</p> <p>One example of first participant attributes being used to establish first network classification criteria is the use of first participant related information to interpret the second participant identifier. 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, or to interpret local extension numbers within an enterprise. 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 AT&amp;T VoIP. For example, AT&amp;T UC Voice allows a dialing plan to be configured to set up a dialing pattern for individual lines.</p>

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U.S. Patent No. 9,179,005

Claim	Accused Device/Instrumentality		
	<p><b>Configure Dial Plan</b></p> <p>In the examples shown below, four normalization rules created under the Global dial plan are used to normalize enterprise voice calls. The rules normalize 4-digit and 10-digit numbers dialed in Lync to corresponding E.164 numbers, along with calls to international phone numbers and 7-digit numbers for UC Voice users.</p> <p>Another example of first participant attributes being used to establish first network classification criteria is the use of first participant account status information. If the account of the first participant is active and has not blocked communication with the second participant, and the second participant is an AT&amp;T subscriber, then the call can be made using AT&amp;T's private network. 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.</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> <p><b>Cancel Call Waiting</b></p> <p>Allows you to cancel Call Waiting for a specific call, for all calls or during a current call.</p> <ul style="list-style-type: none"> <li>• Per-Call Cancel: *70 + dial number #</li> <li>• To Deactivate for all calls: OFF: *370#</li> <li>• To Reactivate: ON: *371#</li> <li>• Call Waiting Mid-Call Cancel: Flash + *70# + Flash</li> </ul> <p><b>Directory Assistance Blocking</b></p> <p>Directory Assistance Blocking allows you to prevent all outgoing calls to Directory Assistance (such as 411 or Information).</p> <p><b>Do Not Disturb</b></p> <p>Gives you the option to turn off the ringer on your phone. This can be done from either the handset or from here. A busy signal will be heard by the caller when Do Not Disturb is turned on.</p> <ul style="list-style-type: none"> <li>• ON: *78#</li> <li>• OFF: *79#</li> </ul> </td> <td style="vertical-align: top; width: 50%;"> <p><b>International Call Blocking</b></p> <p>International Call Blocking allows you to prevent all outgoing calls to international numbers (when dialing starts with 011 or 010).</p> <p><b>Locate Me</b></p> <p>Never miss an incoming call again! Not only will your U-verse Voice number ring, but up to four other numbers will all ring at the same time. Enter numbers on your "Locate Me" list—online at att.com/myatt.</p> <ul style="list-style-type: none"> <li>• ON: Activated Online</li> <li>• OFF: *313#</li> </ul> <p><b>Three-Way Calling</b></p> <p>Allows you to add a third party to an existing conversation.</p> <ul style="list-style-type: none"> <li>• Flash + dial number + Flash</li> </ul> </td> </tr> </table>	<p><b>Cancel Call Waiting</b></p> <p>Allows you to cancel Call Waiting for a specific call, for all calls or during a current call.</p> <ul style="list-style-type: none"> <li>• Per-Call Cancel: *70 + dial number #</li> <li>• To Deactivate for all calls: OFF: *370#</li> <li>• To Reactivate: ON: *371#</li> <li>• Call Waiting Mid-Call Cancel: Flash + *70# + Flash</li> </ul> <p><b>Directory Assistance Blocking</b></p> <p>Directory Assistance Blocking allows you to prevent all outgoing calls to Directory Assistance (such as 411 or Information).</p> <p><b>Do Not Disturb</b></p> <p>Gives you the option to turn off the ringer on your phone. This can be done from either the handset or from here. A busy signal will be heard by the caller when Do Not Disturb is turned on.</p> <ul style="list-style-type: none"> <li>• ON: *78#</li> <li>• OFF: *79#</li> </ul>	<p><b>International Call Blocking</b></p> <p>International Call Blocking allows you to prevent all outgoing calls to international numbers (when dialing starts with 011 or 010).</p> <p><b>Locate Me</b></p> <p>Never miss an incoming call again! Not only will your U-verse Voice number ring, but up to four other numbers will all ring at the same time. Enter numbers on your "Locate Me" list—online at att.com/myatt.</p> <ul style="list-style-type: none"> <li>• ON: Activated Online</li> <li>• OFF: *313#</li> </ul> <p><b>Three-Way Calling</b></p> <p>Allows you to add a third party to an existing conversation.</p> <ul style="list-style-type: none"> <li>• Flash + dial number + Flash</li> </ul>
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U.S. Patent No. 9,179,005

Claim	Accused Device/Instrumentality
	 <p data-bbox="1153 319 1490 571">Place your U-verse TV, Voice line(s) and High Speed Internet, if applicable*, on hold for \$5 a month each. Vacation Hold can be activated for a minimum period of 2 months and a maximum period of 9 months over a 12 month period. ** To be eligible, your U-verse account must be in good standing and you must have had service for at least 30 days.</p> <p data-bbox="1153 583 1490 613">* If you have U-verse TV, Voice and High Speed Internet you will be required to put all three on hold, including all U-verse Voice line(s).</p> <p data-bbox="1153 619 1490 682">** Each U-verse account is only allowed to place their service on Vacation Hold twice within 12 months. Customer can call AT&amp;T at 1.800.288.2020 to restore any U-verse service(s) placed on hold; if customer does not call and restore, service(s) will be restored on the restoral date selected below.</p> <p data-bbox="548 724 1461 798">AT&amp;T IP Flexible Reach allows control of outbound calling features to permit calling restrictions on a line by line basis.</p> <h2 data-bbox="576 856 1323 913">Manage Outbound Call Features</h2> <p data-bbox="576 945 828 997"><a href="#">Edit Account Code Status</a>  <a href="#">Edit Dial Restrictions</a></p> <p data-bbox="576 1018 1526 1071">As an Enterprise Administrator for the AT&amp;T IP Flexible Reach Customer Portal, you can manage outbound call features, including account codes and dial restrictions.</p> <p data-bbox="576 1092 1526 1144">To see and edit a user's outbound features, go to a <a href="#">User Details page</a> and click the <b>Outbound Fe</b> tab.</p> <h2 data-bbox="576 1197 1096 1249">About Dial Restrictions</h2> <p data-bbox="576 1281 1526 1333">Dial restrictions are limitations that you can put on a group's outgoing calls. You can also set custom restrictions for individuals.</p> <p data-bbox="576 1354 1526 1438">Using dial restrictions, you can block users from making certain types of call, such as calls to interna or toll-free numbers. You can also use dial restrictions to require an authorization code for certain t of outgoing calls.</p> <p data-bbox="576 1459 1096 1480">Dial restrictions can be used with these types of calls:</p> <ul data-bbox="617 1501 860 1743" style="list-style-type: none"> <li>• Intra-enterprise</li> <li>• Domestic</li> <li>• Toll-free</li> <li>• International</li> <li>• Operator Assistance</li> <li>• Directory Assistance</li> </ul> <p data-bbox="576 1753 1502 1785">You can view and edit dial restrictions for groups from the <b>Settings</b> tab on a <a href="#">Group Details page</a>.</p> <p data-bbox="576 1795 1526 1858">You can view and edit dial restrictions for individual users from the <b>Outbound Features</b> tab of a <a href="#">Use Details page</a>.</p> <p data-bbox="548 1900 1494 1932">Another example of first participant attributes being used to establish first</p>

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U.S. Patent No. 9,179,005	
Claim	Accused Device/Instrumentality
	network classification criteria is determining if the first participant account has sufficient authorization to process a charge associated with the communication. If a call involves a charge and the first participant account can process the charge, and the second participant is an AT&T subscriber, then the call can be made using AT&T's private network.
[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	<p>AT&amp;T VoIP 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.</p> <p>The AT&amp;T operated controller routes the call using a routing message to its own subscriber over its private network.</p>
[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,	<p>AT&amp;T VoIP 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.</p> <p>AT&amp;T VoIP allows calls to be made using AT&amp;T's private network and over a public network such as the PSTN. Second network classification criteria represents routing calls over a public network such as the PSTN. First participant attributes are used to establish a second network classification criteria.</p> <p>One example of first participant attributes being used to establish second network classification criteria is the use of first participant related information to interpret the second participant identifier. 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, or to interpret local extension numbers within an enterprise. Also, abbreviated dialing patterns</p>

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U.S. Patent No. 9,179,005			
Claim	Accused Device/Instrumentality		
	<p>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 AT&amp;T VoIP. For example, AT&amp;T UC Voice allows a dialing plan to be configured to set up a dialing pattern for individual lines.</p> <p style="color: green;"><b>Configure Dial Plan</b></p> <p>In the examples shown below, four normalization rules created under the Global dial plan are used to normalize enterprise voice calls. The rules normalize 4-digit and 10-digit numbers dialed in Lync to corresponding E.164 numbers, along with calls to international phone numbers and 7-digit numbers used by UC Voice users.</p> <p>Another example of first participant attributes being used to establish second network classification criteria is the use of first participant account status information. If the account of the first participant is active and has not blocked communication with the second participant, and the second participant is not an AT&amp;T subscriber, then the call must be made using a public network such as the PSTN. 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.</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> <p><b>Cancel Call Waiting</b></p> <p>Allows you to cancel Call Waiting for a specific call, for all calls or during a current call.</p> <ul style="list-style-type: none"> <li>• Per-Call Cancel: *70 + dial number #</li> <li>• To Deactivate for all calls: OFF: *370#</li> <li>• To Reactivate: ON: *371#</li> <li>• Call Waiting Mid-Call Cancel: Flash + *70# + Flash</li> </ul> <p><b>Directory Assistance Blocking</b></p> <p>Directory Assistance Blocking allows you to prevent all outgoing calls to Directory Assistance (such as 411 or information).</p> <p><b>Do Not Disturb</b></p> <p>Gives you the option to turn off the ringer on your phone. This can be done from either the handset or from here. A busy signal will be heard by the caller when Do Not Disturb is turned on.</p> <ul style="list-style-type: none"> <li>• ON: *78#</li> <li>• OFF: *79#</li> </ul> </td> <td style="vertical-align: top; width: 50%;"> <p><b>International Call Blocking</b></p> <p>International Call Blocking allows you to prevent all outgoing calls to international numbers (when dialing starts with 011 or 010).</p> <p><b>Locate Me</b></p> <p>Never miss an incoming call again! Not only will your U-verse Voice number ring, but up to four other numbers will all ring at the same time. Enter numbers on your "Locate Me" list—online at att.com/myatt.</p> <ul style="list-style-type: none"> <li>• ON: Activated Online</li> <li>• OFF: *313#</li> </ul> <p><b>Three-Way Calling</b></p> <p>Allows you to add a third party to an existing conversation.</p> <ul style="list-style-type: none"> <li>• Flash + dial number + Flash</li> </ul> </td> </tr> </table>	<p><b>Cancel Call Waiting</b></p> <p>Allows you to cancel Call Waiting for a specific call, for all calls or during a current call.</p> <ul style="list-style-type: none"> <li>• Per-Call Cancel: *70 + dial number #</li> <li>• To Deactivate for all calls: OFF: *370#</li> <li>• To Reactivate: ON: *371#</li> <li>• Call Waiting Mid-Call Cancel: Flash + *70# + Flash</li> </ul> <p><b>Directory Assistance Blocking</b></p> <p>Directory Assistance Blocking allows you to prevent all outgoing calls to Directory Assistance (such as 411 or information).</p> <p><b>Do Not Disturb</b></p> <p>Gives you the option to turn off the ringer on your phone. This can be done from either the handset or from here. A busy signal will be heard by the caller when Do Not Disturb is turned on.</p> <ul style="list-style-type: none"> <li>• ON: *78#</li> <li>• OFF: *79#</li> </ul>	<p><b>International Call Blocking</b></p> <p>International Call Blocking allows you to prevent all outgoing calls to international numbers (when dialing starts with 011 or 010).</p> <p><b>Locate Me</b></p> <p>Never miss an incoming call again! Not only will your U-verse Voice number ring, but up to four other numbers will all ring at the same time. Enter numbers on your "Locate Me" list—online at att.com/myatt.</p> <ul style="list-style-type: none"> <li>• ON: Activated Online</li> <li>• OFF: *313#</li> </ul> <p><b>Three-Way Calling</b></p> <p>Allows you to add a third party to an existing conversation.</p> <ul style="list-style-type: none"> <li>• Flash + dial number + Flash</li> </ul>
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U.S. Patent No. 9,179,005

Claim	Accused Device/Instrumentality
	 <p data-bbox="1153 315 1477 567">Place your U-verse TV, Voice line(s) and High Speed Internet, if applicable*, on hold for \$5 a month each. Vacation Hold can be activated for a minimum period of 2 months and a maximum period of 9 months over a 12 month period. ** To be eligible, your U-verse account must be in good standing and you must have had service for at least 30 days.</p> <p data-bbox="1153 577 1477 609"><small>* If you have U-verse TV, Voice and High Speed Internet you will be required to put all three on hold, including all U-verse Voice line(s).</small></p> <p data-bbox="1153 619 1477 682"><small>** Each U-verse account is only allowed to place their service on Vacation Hold twice within 12 months. Customer can call AT&amp;T at 1.800.288.2020 to restore any U-verse service(s) placed on hold; if customer does not call and restore, service(s) will be restored on the restoral date selected below.</small></p> <p data-bbox="552 724 1461 798">AT&amp;T IP Flexible Reach allows control of outbound calling features to permit calling restrictions on a line by line basis.</p> <h2 data-bbox="576 850 1323 913">Manage Outbound Call Features</h2> <p data-bbox="576 934 828 997"><a href="#">Edit Account Code Status</a> <a href="#">Edit Dial Restrictions</a></p> <p data-bbox="576 1018 1526 1081">As an Enterprise Administrator for the AT&amp;T IP Flexible Reach Customer Portal, you can manage outbound call features, including account codes and dial restrictions.</p> <p data-bbox="576 1092 1526 1155">To see and edit a user's outbound features, go to a <a href="#">User Details page</a> and click the <b>Outbound Fe</b> tab.</p> <h2 data-bbox="576 1165 1096 1218">About Dial Restrictions</h2> <p data-bbox="576 1249 1526 1312">Dial restrictions are limitations that you can put on a group's outgoing calls. You can also set custom restrictions for individuals.</p> <p data-bbox="576 1323 1526 1407">Using dial restrictions, you can block users from making certain types of call, such as calls to interna or toll-free numbers. You can also use dial restrictions to require an authorization code for certain t of outgoing calls.</p> <p data-bbox="576 1417 1096 1449">Dial restrictions can be used with these types of calls:</p> <ul data-bbox="617 1459 860 1711" style="list-style-type: none"><li>• Intra-enterprise</li><li>• Domestic</li><li>• Toll-free</li><li>• International</li><li>• Operator Assistance</li><li>• Directory Assistance</li></ul> <p data-bbox="576 1722 1502 1753">You can view and edit dial restrictions for groups from the <b>Settings</b> tab on a <a href="#">Group Details page</a>.</p> <p data-bbox="576 1764 1526 1816">You can view and edit dial restrictions for individual users from the <b>Outbound Features</b> tab of a <a href="#">Use Details page</a>.</p> <p data-bbox="552 1869 1502 1942">Another example of first participant attributes being used to establish second network classification criteria is determining if the first participant</p>

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	account has sufficient authorization to process a charge associated with the communication. If a call involves a charge and the first participant account can process the charge, and the second participant is not an AT&T subscriber, then the call must be made using a public network such as the PSTN.
[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 not controlled by the entity.	<p>AT&amp;T VoIP 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.</p> <p>If a call is made over a public network, the AT&amp;T operated controller routes the call using a routing message to a gateway associated with a public network such as the PSTN.</p>
75. The method of claim 74, wherein the packet switched network comprises the Internet.	In AT&T VoIP 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 AT&T VoIP the first participant identifier comprises a first participant telephone number or username.
77. The method of claim 74,	In AT&T VoIP the second participant identifier comprises a second participant telephone number or username.



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wherein 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 AT&T VoIP the communication comprises a voice-over-IP communication.
79. The method of claim 74, wherein the packet switched network is accessed via an Internet service provider.	In AT&T VoIP the packet switched network is accessed via an 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	In AT&T VoIP 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.

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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 AT&T VoIP 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 communication services for the first portion.	In AT&T VoIP the entity is an entity supplying 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 AT&T VoIP 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	In AT&T VoIP the address in the second portion of the packet switched

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Claim	Accused Device/Instrumentality
of claim 74, wherein the address in the second portion of the packet switched network comprises an address accessed by a communication service supplier.	network comprises an address accessed by a communication service supplier.
94. [94p] A system for routing 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, the system comprising:	AT&T VoIP 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].
[94a] a controller comprising: a processor operably configured to access a memory, wherein the	AT&T VoIP includes a controller comprising a processor operably configured to access a memory.  AT&T VoIP uses a controller with processors, memory and instructions that includes the on-premises equipment and/or AT&T operated equipment.

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processor is configured to:	
[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 plurality of attributes associated with the first participant;	See claim element [74a].
[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	See claim element [74c].

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<p>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</p>	
<p>[94e] produce a second network routing message 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,</p>	<p>See claim element [74d].</p>
<p>[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.</p>	<p>See claim element [74e].</p>
<p>95. The system of claim 94, wherein the</p>	<p>See claim 78.</p>

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communication comprises a voice-over-IP communication.	
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 satisfied when access to the second participant requires routing through a portion of the packet switched network operated by a communication service supplier.	See claim 89.
99. [99p] A non-transitory computer readable medium comprising instructions that when executed cause a processor to perform a method of routing	<p>AT&amp;T VoIP 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</p> <p>AT&amp;T VoIP uses processors with instructions in the on-premises equipment and/or AT&amp;T operated equipment.</p> <p>See claim element [74p].</p>



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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:	
[99a] 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;	See claim element [74a].
[99b] when at least one of the first participant attributes and at least a portion of the second	See claim element [74b].

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participant identifier meet a first network classification criterion,	
[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 the second participant, the first portion being controlled by an entity; and	See claim element [74c].
[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	See claim element [74e].

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routing message identifying an address in a second portion of the packet switched network, the second portion not controlled by the entity.	