

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
AT&T DELAWARE INTELLECTUAL PROPERTY, INC.	03/31/2016
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<b>Property Type</b>	<b>Number</b>
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<b>SIGNATURE:</b>	/Diane V. Lane/
<b>DATE SIGNED:</b>	01/02/2018
<b>Total Attachments: 2</b>	
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RECORDABLE PATENT ASSIGNMENT

This Recordable Patent Assignment is between AT&T Delaware Intellectual Property, Inc. ("AT&T Delaware IP"), a Delaware corporation, and AT&T Intellectual Property I, L.P. ("AT&T IP I"), a Nevada limited partnership.

Effective on June 30, 2008, for good and adequate consideration, the receipt and sufficiency of which has been and hereby is acknowledged, AT&T Delaware IP hereby assigns, transfers, and conveys and/or has assigned, transferred, and conveyed to AT&T IP I all of AT&T Delaware IP's right, title and interest in and to the patents and pending patent applications identified on Attachment A (the "Patents"), with respect to which and to the extent to which AT&T Delaware IP has or previously had the right to so assign, transfer and convey such rights, including all claims for past infringement, and all divisions, reexaminations, reissues, substitutions, continuations, continuations-in-part and extensions thereof, including the right to file applications and obtain patents, utility models, industrial models and designs for said inventions in its own name throughout the world including all rights of priority, all rights to public cautionary notices reserving ownership of said inventions and all rights to claim and register said inventions in appropriate registries. AT&T Delaware IP has further agreed to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in AT&T IP I, its successors, assigns and legal representatives.

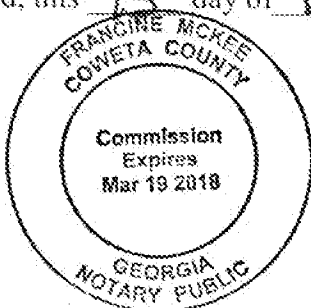
IN WITNESS WHEREOF, AT&T Delaware IP has caused this Recordable Patent Assignment to be executed by its duly authorized representative.

AT&T INTELLECTUAL PROPERTY  
MARKETING, L.L.C.  
As successor in interest to AT&T DELAWARE  
INTELLECTUAL PROPERTY, INC.

By: Jeanette Napp  
Jeanette Napp  
Assistant Secretary

STATE OF GEORGIA     )  
  ) ss:  
COUNTY OF COWETA    )

Before me personally appeared the person described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, this 15 day of December, 2017.



Francine McKee  
Notary Public

Docket#	Country	Relationship	#	Application Date	Application#	Patent#	Patent Title
01061	Patent Cooperation Treaty	Original Filing		10/25/2002	PCT/US02/33667		Methods And Systems For Routing Travel Between Origin And Destination Service Locations Using Global Satellite Positioning
01061	United States	Continuation	1	05/28/2004	10/856441	7103476	Methods And Systems For Routing Travel Between Origin And Destination Service Locations Using Global Satellite Positioning
01061	United States	Continuation	2	09/05/2006	11/516016	7295924	Methods And Systems For Routing Travel Between Origin And Destination Service Locations Using Global Satellite Positioning
01061	United States	Division	1	10/30/2007	11/928688		Methods And Systems For Routing Travel Between Origin And Destination Service Locations Using Global Satellite Positioning
01061	United States	Continuation	3	11/13/2007	11/939167	7599793	Methods And Systems For Routing Travel Between Origin And Destination Service Locations Using Global Satellite Positioning
01062	Patent Cooperation Treaty	Original Filing		10/22/2002	PCT/US02/33755		Methods And Systems For Determining A Telecommunications Service Location Using Global Satellite Positioning
01062	United States	Continuation	1	05/27/2003	10/445861	7188027	Methods And Systems For Determining A Telecommunications Service Location Using Global Satellite Positioning
01062	United States	Continuation	2	12/12/2006	11/637659	7292939	Methods And Systems For Determining A Telecommunications Service Location Using Global Satellite Positioning
01062	United States	Continuation	3	11/06/2007	11/935749	7647172	Methods And Systems For Determining A Telecommunications Service Location Using Global Satellite Positioning
01062	United States	Continuation	4	12/29/2009	12/649166	8135540	Methods And Systems For Determining A Telecommunications Service Location Using Global Satellite Positioning