# 506333423 11/02/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6380174

UBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY D	ΔΤΑ	·		
		Name Executio	n Date	
VIKRAM SEENAPPA		11/14/2018	8	
HENRY DECCIO	11/21/2018	8		
SRIKANTH TIRUMALA	11/20/2018	8		
VIVEK MHATRE		11/19/2018	8	
RECEIVING PARTY D	ΑΤΑ			
Name:		AT&T INTELLECTUAL PROPERTY I, L.P.		
Street Address:	754 PE	754 PEACHTREE STREET		
Internal Address:	SUITE	7C		
City:	ATLAN	ITA		
State/Country:	GEORGIA			
		30308		
Postal Code: PROPERTY NUMBER:				
PROPERTY NUMBER	S Total: 1			
PROPERTY NUMBER	S Total: 1	<b>Number</b> 17086841		
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number:	S Total: 1	Number 17086841 (215)568-3439	sent	
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if	S Total: 1 DATA	Number   17086841   (215)568-3439   o the e-mail address first; if that is unsuccessful, it will be sent via US Mail.	sent	
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will I</i> <i>using a fax number, if</i> Phone:	S Total: 1 DATA	Number   17086841   (215)568-3439   o the e-mail address first; if that is unsuccessful, it will be sent via US Mail.   2155683100	sent	
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if Phone: Email:	S Total: 1 DATA	Number   17086841   (215)568-3439   o the e-mail address first; if that is unsuccessful, it will be sent via US Mail.   2155683100   patents@bakerlaw.com	sent	
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if Phone: Email: Correspondent Name:	S Total: 1	Number   17086841   (215)568-3439   o the e-mail address first; if that is unsuccessful, it will be set via US Mail.   2155683100   patents@bakerlaw.com   BAKERHOSTETLER	sent	
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if Phone: Email: Correspondent Names Address Line 1:	S Total: 1	Number   17086841   (215)568-3439   o the e-mail address first; if that is unsuccessful, it will be sent via US Mail.   2155683100   patents@bakerlaw.com	sent	
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	S Total: 1	Number   17086841   (215)568-3439   o the e-mail address first; if that is unsuccessful, it will be set via US Mail.   2155683100   patents@bakerlaw.com   BAKERHOSTETLER   2929 ARCH STREET, 12TH FLOOR	sent	
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will	S Total: 1	Number   17086841   (215)568-3439 <i>o</i> the e-mail address first; if that is unsuccessful, it will be set via US Mail.   2155683100   patents@bakerlaw.com   BAKERHOSTETLER   2929 ARCH STREET, 12TH FLOOR   CIRA CENTRE   PHILADELPHIA, PENNSYLVANIA 19104	sent	
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if Phone: Email: Correspondent Names Address Line 1: Address Line 2: Address Line 4:	S Total: 1	Number   17086841   (215)568-3439 <i>o</i> the e-mail address first; if that is unsuccessful, it will be set via US Mail.   2155683100   patents@bakerlaw.com   BAKERHOSTETLER   2929 ARCH STREET, 12TH FLOOR   CIRA CENTRE   PHILADELPHIA, PENNSYLVANIA 19104	sent	
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	S Total: 1	Number   17086841   (215)568-3439   o the e-mail address first; if that is unsuccessful, it will be set that is unsuccessful, it will be sent via US Mail.   2155683100   patents@bakerlaw.com   BAKERHOSTETLER   2929 ARCH STREET, 12TH FLOOR   CIRA CENTRE   PHILADELPHIA, PENNSYLVANIA 19104   2018-0692CON/101900002414	sent	

**Total Attachments: 8** 

source=101900_002414_Fully_Executed_Assignment#page1.tif
source=101900_002414_Fully_Executed_Assignment#page2.tif
source=101900_002414_Fully_Executed_Assignment#page3.tif
source=101900_002414_Fully_Executed_Assignment#page4.tif
source=101900_002414_Fully_Executed_Assignment#page5.tif
source=101900_002414_Fully_Executed_Assignment#page6.tif
source=101900_002414_Fully_Executed_Assignment#page7.tif
source=101900_002414_Fully_Executed_Assignment#page8.tif

### ASSIGNMENT

WHEREAS I, Vikram Scenappa residing at 1723 229<sup>th</sup> Pl., S.E., Sammamish, Washington 98075 hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "VIRTUAL NETWORK MANAGER SYSTEM," having AT&T Docket No. 2018-0692, the patent application to be filed in the United States Patent & Trademark Office; and

WHEREAS, AT&T Intellectual Property I, L.P., a partnership organized and existing under the laws of Nevada and having an address at 675 West Peachtree Street, NW, Atlanta, Georgia 30308 (hereinafter referred to as Assignee), desires to acquire the entire right, title and interest for the United States of America and elsewhere throughout the world in and to said invention and the patent application identified above, including any and all divisions and continuations thereof and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereto;

NOW THEREFORE, be it known that for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assigner, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention and this non-provisional application, and all divisions, substitutions, and continuations thereof; and all Letters Patent of the United States which may be granted thereon, and all reexaminations and reissues thereof; and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application; and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, including certificates of inventions, utility models, industrial design protection, design patent protection, and other governmental grants or issuances; and all extensions, rehewals, prolongations, and reissues thereof; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full

AND, I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any assignment, sale, license, agreement, or encumbrance in conflict with this Assignment;

AND, I HEREBY further covenant and agree, for the Assignor and the Assignor's legal representatives, that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention; assist the Assignee in the prosecution of the patent application identified above; assist in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; testify in any interference, litigation, or other legal proceeding; sign all lawful papers when called upon to do so; execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns; execute all divisional, continuation, and reissue applications; make all rightful oaths and generally do everything possible to aid Assignee, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee; and hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without compensation, but at the expense of Assignee or its representatives.

AND, I HEREBY consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of **AT&T Intellectual Property I**, **L.P.** to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

This Assignment may be executed in any number of counterparts, each of which when so executed and delivered shall be deemed an original, and such counterparts together shall constitute one and the same instrument. A facsimile copy of this Assignment, or any form of an electronic copy of this Assignment, including the signature pages hereto, shall be deemed to be an original.

IN TESTIMONY WHEREOF, I have hereunto set my hand this | 4th day of Nov., 2018.

Vikram Seenappa

State of Washington ) County of King )

On this 14<sup>th</sup> day of November \_\_\_\_\_, 2018, before me a Notary Public in and for the above County and State, personally appeared Vikram Scenappa and acknowledged the execution of the foregoing assignment as his/her free act and deed for the purpose herein set forth.

3112020 8282888888888888888888888 My Commission Expires: Notary Public **BONNIE FRUIK** NOTARY PUBLIC STATE OF WASHINGTON COMMISSION EXPIRES MARCH 1, 2020 22222222222222222222222222222

1

#### ASSIGNMENT

WHEREAS I, Henry Deccio residing at 4003 140<sup>th</sup> Avenue, S.E., Bellevue, Washington 98006 hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "VIRTUAL NETWORK MANAGER SYSTEM," having AT&T Docket No. 2018-0692, the patent application to be filed in the United States Patent & Trademark Office; and

WHEREAS, AT&T Intellectual Property I, L.P., a partnership organized and existing under the laws of Nevada and having an address at 675 West Peachtree Street, NW, Atlanta, Georgia 30308 (hereinafter referred to as Assignee), desires to acquire the entire right, title and interest for the United States of America and elsewhere throughout the world in and to said invention and the patent application identified above, including any and all divisions and continuations thereof and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereto;

NOW THEREFORE, be it known that for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration the receipt of which from Assignce is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention and this non-provisional application, and all divisions, substitutions, and continuations thereof; and all Letters Patent of the United States which may be granted thereon, and all reexaminations and reissues thereof; and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application in any foreign country, including certificates of inventions, utility models, industrial design protection, design patent protection, and other governmental grants or issuances; and all extensions, renewals, prolongations, and reissues thereof; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term and terms for all such patents;

AND, I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any assignment, sale, license, agreement, or encumbrance in conflict with this Assignment;

AND, I HEREBY further covenant and agree, for the Assignor and the Assignor's legal representatives, that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention; assist the Assignee in the prosecution of the patent application identified above; assist in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; testify in any interference, litigation, or other legal proceeding; sign all lawful papers when called upon to do so; execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns; execute all divisional, continuation, and reissue applications; make all rightful oaths and generally do everything possible to aid Assignee, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee; and hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without compensation, but at the expense of Assignee or its representatives.

AND, I HEREBY consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of AT&T Intellectual Property I, L.P. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

This Assignment may be executed in any number of counterparts, each of which when so executed and delivered shall be deemed an original, and such counterparts together shall constitute one and the same instrument. A facsimile copy of this Assignment, or any form of an electronic copy of this Assignment, including the signature pages hereto, shall be deemed to be an original.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 21st day of November 2018. Henry Decci State of )

)

On this <u>Aladay</u> of <u>Aladay</u>, 2018, before me a Notary Public in and for the above County and State, personally appeared Henry Deccio and acknowledged the execution of the foregoing assignment as histher free act and deed for the purpose herein set forth.

152.0

My Commission Expires: Notary Public ALL STATES

County of

#### ASSIGNMENT

WHEREAS I, Srikanth Tirumala residing at 9301 Avondale Road, N.E., Apt. B1006, Redmond, Washington 98052 hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "VIRTUAL NETWORK MANAGER SYSTEM," having AT&T Docket No. 2018-0692, the patent application to be filed in the United States Patent & Trademark Office; and

WHEREAS, AT&T Intellectual Property I, L.P., a partnership organized and existing under the laws of Nevada and having an address at 675 West Peachtree Street, NW, Atlanta, Georgia 30308 (hereinafter referred to as Assignee), desires to acquire the entire right, title and interest for the United States of America and elsewhere throughout the world in and to said invention and the patent application identified above, including any and all divisions and continuations thereof and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereto;

NOW THEREFORE, be it known that for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention and this non-provisional application, and all divisions, substitutions, and continuations thereof; and all Letters Patent of the United States which may be granted thereon, and all reexaminations and reissues thereof; and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of Letters Patent which may be granted on this invention in any foreign country, including certificates of inventions, utility models, industrial design protection, design patent protection, and other governmental grants or issuances; and all extensions, renewals, prolongations, and reissues thereof; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term and terms for all such patents;

AND, I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any assignment, sale, license, agreement, or encumbrance in conflict with this Assignment;

AND, I HEREBY further covenant and agree, for the Assignor and the Assignor's legal representatives, that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention; assist the Assignee in the prosecution of the patent application identified above; assist in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; testify in any interference, litigation, or other legal proceeding; sign all lawful papers when called upon to do so; execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns; execute all divisional, continuation, and reissue applications; make all rightful oaths and generally do everything possible to aid Assignee, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee; and hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without compensation, but at the expense of Assignee or its representatives.

AND, I HEREBY consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of **AT&T** Intellectual Property I, L.P. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

This Assignment may be executed in any number of counterparts, each of which when so executed and delivered shall be deemed an original, and such counterparts together shall constitute one and the same instrument. A facsimile copy of this Assignment, or any form of an electronic copy of this Assignment, including the signature pages hereto, shall be deemed to be an original.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 20th day of November, 2018.

T.L.S. Kon Srikanth Tirumala

State of Washington\_\_\_\_ County of King )

On this <u>act</u> day of <u>NOVEM DEF</u>, 2018, before me a Notary Public in and for the above County and State, personally appeared Srikanth Tirumala and acknowledged the execution of the foregoing assignment as his/her free act and deed for the purpose herein set forth.

0 Fruit Notary Public

My Commission Expires: 3/1/2020



#### ASSIGNMENT

WHEREAS I, Vivek Mhatre residing at 4841 119<sup>th</sup> Avenue, S.E., Bellevue, Washington 98006 hereafter referred to as Assignor, am listed as an inventor on a patent application entitled "VIRTUAL NETWORK MANAGER SYSTEM," having AT&T Docket No. 2018-0692, the patent application to be filed in the United States Patent & Trademark Office; and

WHEREAS, AT&T Intellectual Property I, L.P., a partnership organized and existing under the laws of Nevada and having an address at 675 West Peachtree Street, NW, Atlanta, Georgia 30308 (hereinafter referred to as Assignee), desires to acquire the entire right, title and interest for the United States of America and elsewhere throughout the world in and to said invention and the patent application identified above, including any and all divisions and continuations thereof and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereto;

NOW THEREFORE, be it known that for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention and this non-provisional application, and all divisions, substitutions, and continuations thereof; and all Letters Patent of the United States which may be granted thereon, and all reexaminations and reissues thereof; and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application; and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, including certificates of inventions, utility models, industrial design protection, design patent protection, and other governmental grants or issuances; and all extensions, renewals, prolongations, and reissues thereof; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full

AND, I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any assignment, sale, license, agreement, or encumbrance in conflict with this Assignment;

AND, I HEREBY further covenant and agree, for the Assignor and the Assignor's legal representatives, that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention; assist the Assignee in the prosecution of the patent application identified above; assist in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; testify in any interference, litigation, or other legal proceeding; sign all lawful papers when called upon to do so; execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns; execute all divisional, continuation, and reissue applications; make all rightful oaths and generally do everything possible to aid Assignee, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee; and hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without compensation, but at the expense of Assignee or its representatives.

AND, I HEREBY consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of **AT&T Intellectual Property I**, **L.P.** to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

This Assignment may be executed in any number of counterparts, each of which when so executed and delivered shall be deemed an original, and such counterparts together shall constitute one and the same instrument. A facsimile copy of this Assignment, or any form of an electronic copy of this Assignment, including the signature pages hereto, shall be deemed to be an original.

IN TESTIMONY WHEREOF, I have hereunto set my hand this  $19^{\text{H}}$  day of NOV, 2018.

State of <u>licishing ton</u> County of <u>Ling</u> ) )

On this  $10^{+10}$  day of <u>NOVEM ber</u>, 2018, before me a Notary Public in and for the above County and State, personally appeared **Vivek Mhatre** and acknowledged the execution of the foregoing assignment as his/her free act and deed for the purpose herein set forth.

BOTMUD Jul

My Commission Expires: 3/1/2020

**BONNIE FRUIK** NOTARY PUBLIC STATE OF WASHINGTON COMMISSION EXPIRES MARCH 1, 2020 

PATENT REEL: 054242 FRAME: 0507

**RECORDED: 11/02/2020**