

## 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>
MIN LUO	04/28/2015
JUNJIE ZHANG	07/22/2015
KANG XI	04/24/2015
HUNG-HSIANG CHAO	04/24/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FUTUREWEI TECHNOLOGIES, INC.
<b>Street Address:</b>	5340 LEGACY DRIVE
<b>Internal Address:</b>	SUITE 175
<b>City:</b>	PLANO
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	75024
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14695832
<b>CORRESPONDENCE DATA</b>	
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<b>Phone:</b>	408-938-9060
<b>Email:</b>	swarren@mhbpatents.com
<b>Correspondent Name:</b>	MURABITO, HAO & BARNES LLP
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<b>Address Line 4:</b>	SAN JOSE, CALIFORNIA 95113
<b>ATTORNEY DOCKET NUMBER:</b>	HW-91013177US02
<b>NAME OF SUBMITTER:</b>	JAMES P. HAO
<b>SIGNATURE:</b>	/James P. Hao/
<b>DATE SIGNED:</b>	07/24/2015
<b>Total Attachments: 5</b>	

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## ASSIGNMENT

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WHEREAS, I/We, the undersigned inventor(s) (or one of the undersigned joint inventors), of residence as listed below, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

WHEREAS, Futurewei Technologies, Inc. ("Assignee"), a corporation organized and existing under the laws of Texas, with its principal office at 5340 Legacy Drive, Suite 175, Plano, TX 75024 is desirous of acquiring my/our entire right, title and interest in the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/we will assign, and hereby assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive right, title and interest in and to the invention in the United States and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisional, reissues, reexaminations, National Phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and I/we do hereby authorize and request the Commissioner for Patents to issue U.S. patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the Assignee agreeably with the terms of this assignment document.

I also hereby agree to sell and to assign, and sell and assign to Assignee, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to Assignee, or its successors, assigns, and legal representative, any facts know to me respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid such Futurewei, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

# ASSIGNMENT

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

Title of Invention	<b>APPARATUS AND METHOD FOR DYNAMIC HYBRID ROUTING IN SDN NETWORKS TO AVOID CONGESTION AND BALANCE LOADS UNDER CHANGING TRAFFIC LOAD</b>	
	Appl. No. <b>14/695,832</b>	Filing Date: <b>04/24/2015</b>

Signature of Inventor:

*Min Luo*

Inventor Name:

**Min LUO**

Date

**4/28/2015**

Residence (City/State):

**San Jose, CA**

Signature of Inventor:

Inventor Name:

**Junjie ZHANG**

Date

Residence (City/State):

**Brooklyn, NY**

Signature of Inventor:

Inventor Name:

**Kang XI**

Date

Residence (City/State):

**Morganville, NJ**

Signature of Inventor:

Inventor Name:

**Hung-Hsiang CHAO**

Date

Residence (City/State):

**Holmdel, NJ**

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	Appl. No. <b>14/695,832</b>	Filing Date: <b>04/24/2015</b>

Signature of Inventor:

Inventor Name: Min LUO Date \_\_\_\_\_  
Residence (City/State): San Jose, CA

Signature of Inventor:

Inventor Name: Junjie ZHANG Date July 22, 2015  
Residence (City/State): Brooklyn, NY

Signature of Inventor:

Inventor Name: Kang XI Date \_\_\_\_\_  
Residence (City/State): Morganville, NJ

Signature of Inventor:

Inventor Name: Hung-Hsiang CHAO Date \_\_\_\_\_  
Residence (City/State): Holmdel, NJ

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Inventor Name: **Min LUO** Date \_\_\_\_\_  
 Residence (City/State): San Jose, CA

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 Residence (City/State): Brooklyn, NY

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Inventor Name: **Kang XI** Date **4/24/2015**  
 Residence (City/State): Morganville, NJ

Signature of Inventor:

Inventor Name: **Hung-Hsiang CHAO** Date \_\_\_\_\_  
 Residence (City/State): Holmdel, NJ

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patent protection for said invention in all countries.

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**Kang XI**

Date

Residence (City/State):

**Morganville, NJ**

Signature of Inventor:

Inventor Name:

**Hung-Hsiang CHAO**

Date

Residence (City/State):

**Holmdel, NJ**

Futurewei Technologies, Inc.  
Patent Reference No. 91013177US02

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