

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3877224

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
QINGHUA LI	12/08/2015
XIAOGANG CHEN	11/17/2015
JEONGHO JEON	11/16/2015
HUANING NIU	11/16/2015
YANG TANG	05/09/2016
YUAN ZHU	11/17/2015
HWAN-JOON KWON	11/13/2015
RECEIVING PARTY DATA	
Name:	INTEL IP CORPORATION
Street Address:	2200 MISSION COLLEGE BOULEVARD
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14579778
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Email:	KIMBERLY.BROWN@SUTHERLAND.COM
Correspondent Name:	SUTHERLAND ASBILL & BRENNAN LLP
Address Line 1:	999 PEACHTREE ST. NE
Address Line 4:	ATLANTA, GEORGIA 30309
ATTORNEY DOCKET NUMBER:	P74589 (31517-0815)
NAME OF SUBMITTER:	NASH M. ZOGAIB
SIGNATURE:	/Nash M. Zogaib/
DATE SIGNED:	05/17/2016
Total Attachments: 7	

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ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned inventor(s):

**QINGHUA LI; XIAOGANG CHEN; JEONGHO JEON; HUANING NIU; YANG TANG;
YUAN ZHU; HWAN-JOON KWON**

hereby sell, assign, and transfer to:

Intel IP Corporation

a corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California, 95054 USA ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all other countries, in and to any and all inventions and improvements that are disclosed in the application for the patent entitled:

SYSTEMS, METHODS, AND DEVICES FOR EXTENDING RANGE OF WIRELESS NETWORKS

(I hereby authorize and request any attorney having appropriate authority from the assignee to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on December 22, 2014 as

US Application Number 14/579,778 and
COUNTRY or International Office

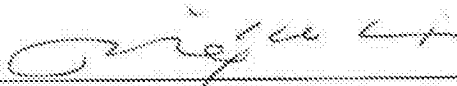
which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

and in and to said application and all Additional Applications, and all other patent applications that have been or shall be filed in the United States and all other countries and international filing offices on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all other countries and international filing offices on said inventions and improvements; and in and to all rights of priority resulting from the filing of said applications; as used herein "Additional Applications" includes but is not limited to design, utility, utility model, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and national phase applications on said inventions and improvements;

and agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all Additional Applications, and all other patent applications on any and all said inventions and improvements; execute all rightful paths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors,

assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

 _____ Qinghua Li	<u>12/08/15</u> _____ Date signed
_____ Xiaogang Chen	_____ Date signed
_____ Jeongho Jeon	_____ Date signed
_____ Huaning Niu	_____ Date signed
_____ Yang Tang	_____ Date signed
_____ Yuan Zhu	_____ Date signed
_____ Hwan-Joon Kwon	_____ Date signed

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_____ Xiaogang Chen	_____ Date signed
_____  Jeongho Jeon	_____ 11/16/2015 Date signed
_____ Huaning Niu	_____ Date signed
_____ Yang Tang	_____ Date signed
_____ Yuan Zhu	_____ Date signed
_____ Hwan-Joon Kwon	_____ Date signed

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_____  Huaning Niu	_____ 11/16/2015 Date signed
_____ Yang Tang	_____ Date signed
_____ Yuan Zhu	_____ Date signed
_____ Hwan-Joon Kwon	_____ Date signed

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_____ Jeongho Jeon	_____ Date signed
_____ Huaning Niu	_____ Date signed
 _____ Yang Tang	 _____ Date signed
_____ Yuan Zhu	_____ Date signed
_____ Hwan-Joon Kwon	_____ Date signed

all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

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_____ Qinghua Li	_____ Date signed
_____ <i>Xiaogang Chen</i> Xiaogang Chen	_____ 2015-11-17 Date signed
_____ Jeongho Jeon	_____ Date signed
_____ Huaning Niu	_____ Date signed
_____ Yang Tang	_____ Date signed
_____ <i>Yuan Zhu</i> Yuan Zhu	_____ Nov 17, 2015 Date signed
_____ Hwan-Joon Kwon	_____ Date signed

assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

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_____ Jeongho Jeon	_____ Date signed
_____ Huaning Niu	_____ Date signed
_____ Yang Tang	_____ Date signed
_____ Yuan Zhu	_____ Date signed
_____  Hwan-Joon Kwon	_____ 11/13/15 Date signed