

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3207484

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
NAGEEN HIMAYAT	01/16/2015
ALEXANDER SIROTKIN	01/20/2015
JING ZHU	01/15/2015
ALEXANDRE STOJANOVSKI	01/01/2015
MO-HAN FONG	01/30/2015
PINGPING ZONG	01/05/2015
VIVEK G. GUPTA	01/05/2015
HUANING NIU	01/05/2015
KONSTANTINOS DIMOU	01/05/2015
SHU-PING YEH	01/05/2015
SHILPA TALWAR	01/05/2015
MUTHAIAH VENKATACHALAM	01/05/2015

**RECEIVING PARTY DATA**

<b>Name:</b>	INTEL CORPORATION
<b>Street Address:</b>	2200 MISSION COLLEGE BOULEVARD
<b>City:</b>	SANTA CLARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95054

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	14583223

**CORRESPONDENCE DATA**

**Fax Number:** (612)677-3572

*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.*

**Email:** INTELDOCS\_DOCKETING@CPAGLOBAL.COM

**Correspondent Name:** LEDELL ANSARI, LLP

**Address Line 1:** C/O CPA GLOBAL

**Address Line 2:** P.O. BOX 52050

**Address Line 4:** MINNEAPOLIS, MINNESOTA 55402

**PATENT**

<b>ATTORNEY DOCKET NUMBER:</b>	P68898
<b>NAME OF SUBMITTER:</b>	BRIAN LEDELL
<b>SIGNATURE:</b>	/Brian Ledell/
<b>DATE SIGNED:</b>	02/02/2015

**Total Attachments: 36**

source=P68898\_Assignments\_ALL#page1.tif  
source=P68898\_Assignments\_ALL#page2.tif  
source=P68898\_Assignments\_ALL#page3.tif  
source=P68898\_Assignments\_ALL#page4.tif  
source=P68898\_Assignments\_ALL#page5.tif  
source=P68898\_Assignments\_ALL#page6.tif  
source=P68898\_Assignments\_ALL#page7.tif  
source=P68898\_Assignments\_ALL#page8.tif  
source=P68898\_Assignments\_ALL#page9.tif  
source=P68898\_Assignments\_ALL#page10.tif  
source=P68898\_Assignments\_ALL#page11.tif  
source=P68898\_Assignments\_ALL#page12.tif  
source=P68898\_Assignments\_ALL#page13.tif  
source=P68898\_Assignments\_ALL#page14.tif  
source=P68898\_Assignments\_ALL#page15.tif  
source=P68898\_Assignments\_ALL#page16.tif  
source=P68898\_Assignments\_ALL#page17.tif  
source=P68898\_Assignments\_ALL#page18.tif  
source=P68898\_Assignments\_ALL#page19.tif  
source=P68898\_Assignments\_ALL#page20.tif  
source=P68898\_Assignments\_ALL#page21.tif  
source=P68898\_Assignments\_ALL#page22.tif  
source=P68898\_Assignments\_ALL#page23.tif  
source=P68898\_Assignments\_ALL#page24.tif  
source=P68898\_Assignments\_ALL#page25.tif  
source=P68898\_Assignments\_ALL#page26.tif  
source=P68898\_Assignments\_ALL#page27.tif  
source=P68898\_Assignments\_ALL#page28.tif  
source=P68898\_Assignments\_ALL#page29.tif  
source=P68898\_Assignments\_ALL#page30.tif  
source=P68898\_Assignments\_ALL#page31.tif  
source=P68898\_Assignments\_ALL#page32.tif  
source=P68898\_Assignments\_ALL#page33.tif  
source=P68898\_Assignments\_ALL#page34.tif  
source=P68898\_Assignments\_ALL#page35.tif  
source=P68898\_Assignments\_ALL#page36.tif

## **ASSIGNMENT**

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

Nageen Himayat; Alexander Sirotkin; Jing Zhu; Alexandre Stojanovski; Mo-han Fong; Pingping Zong; Vivek G. Gupta; Huaning Niu; Konstantinos Dimou; Shu-Ping Yeh; Shilpa Talwar; Muthaiah Venkatachalam

hereby sell, assign, and transfer to:

### **Intel 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:

### **RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR CELL SELECTION AND TRAFFIC STEERING FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES**

**(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 26, 2014 as

US Application Number 14/583,223 and  
COUNTRY or International Office

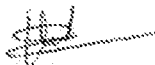
which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

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 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

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.

..... Nageen Himayat	..... Date signed
..... Alexander Sirotkin	..... Date signed
..... Jing Zhu	..... Date signed
..... Alexandre Stojanovski	..... Date signed
..... Mo-han Fong	..... Date signed
..... Pingping Zong	..... Date signed
.....  Vivek G. Gupta	..... 01/05/15 Date signed
..... Huaning Niu	..... Date signed
..... Konstantinos Dimou	..... Date signed

---

Shu-Ping Yeh

---

Date signed

---

Shilpa Talwar

---

Date signed

---

Muthaiah Venkatachalam

---

Date signed

**ASSIGNMENT**

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

Nageen Himayat; Alexander Sirotkin; Jing Zhu; Alexandre Stojanovski; Mo-han Fong; Pingping Zong; Vivek G. Gupta; Huaning Niu; Konstantinos Dimou; Shu-Ping Yeh; Shilpa Talwar; Muthaiah Venkatachalam

hereby sell, assign, and transfer to:

**Intel 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:

**RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR CELL SELECTION AND  
TRAFFIC STEERING FOR INTEGRATED WLAN/3GPP RADIO ACCESS  
TECHNOLOGIES**

(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 26, 2014 as

US Application Number 14/583,223 and  
COUNTRY or International Office

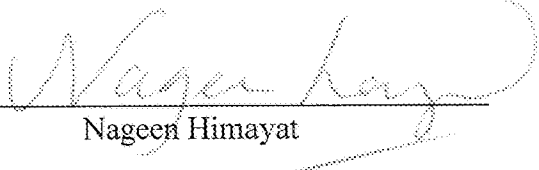
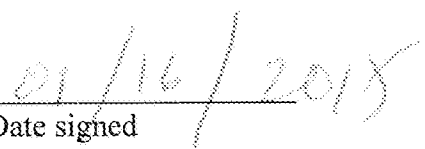
which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

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 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

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.

 _____ Nageen Himayat	 _____ Date signed
_____ Alexander Sirotkin	_____ Date signed
_____ Jing Zhu	_____ Date signed
_____ Alexandre Stojanovski	_____ Date signed
_____ Mo-han Fong	_____ Date signed
_____ Pingping Zong	_____ Date signed
_____ Vivek G. Gupta	_____ Date signed
_____ Huaning Niu	_____ Date signed
_____ Konstantinos Dimou	_____ Date signed

.....  
Shu-Ping Yeh

.....  
Date signed

.....  
Shilpa Talwar

.....  
Date signed

.....  
Muthaiah Venkatachalam

.....  
Date signed



## **ASSIGNMENT**

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

Nageen Himayat; Alexander Sirotkin; Jing Zhu; Alexandre Stojanovski; Mo-han Fong; Pingping Zong; Vivek G. Gupta; Huaning Niu; Konstantinos Dimou; Shu-Ping Yeh; Shilpa Talwar; Muthaiah Venkatachalam

hereby sell, assign, and transfer to:

### **Intel 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:

### **RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR CELL SELECTION AND TRAFFIC STEERING FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES**

**(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 26, 2014 as

US Application Number 14/583,223 and  
COUNTRY or International Office

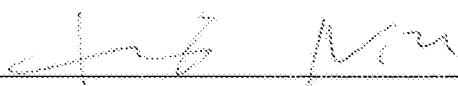
which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

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 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

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.

_____ Nageen Himayat	_____ Date signed
_____ Alexander Sirotkin	_____ Date signed
_____ Jing Zhu	_____ Date signed
_____ Alexandre Stojanovski	_____ Date signed
_____ Mo-han Fong	_____ Date signed
_____ Pingping Zong	_____ Date signed
_____ Vivek G. Gupta	_____ Date signed
 _____ Huaning Niu	_____ 1/5/2015 Date signed
_____ Konstantinos Dimou	_____ Date signed

---

Shu-Ping Yeh

---

Date signed

---

Shilpa Talwar

---

Date signed

---

Muthaiah Venkatachalam

---

Date signed

**ASSIGNMENT**

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

Nageen Himayat; Alexander Sirotkin; Jing Zhu; Alexandre Stojanovski; Mo-han Fong; Pingping Zong; Vivek G. Gupta; Huaning Niu; Konstantinos Dimou; Shu-Ping Yeh; Shilpa Talwar; Muthaiah Venkatachalam

hereby sell, assign, and transfer to:

**Intel 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:

**RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR CELL SELECTION AND TRAFFIC STEERING FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES**

(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 26, 2014 as

US Application Number 14/583,223 and  
COUNTRY or International Office

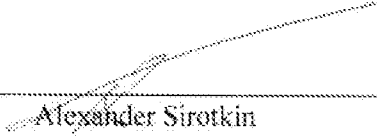
which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

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 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

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.

..... Nageen Himayat .....	..... Date signed .....
.....  Alexander Sirotkin .....	..... 20 Jan 2015 Date signed .....
..... Jing Zhu .....	..... Date signed .....
..... Alexandre Stojanovski .....	..... Date signed .....
..... Mo-han Fong .....	..... Date signed .....
..... Pingping Zong .....	..... Date signed .....
..... Vivek G. Gupta .....	..... Date signed .....
..... Huaning Niu .....	..... Date signed .....
..... Konstantinos Dimou .....	..... Date signed .....

Shu-Ping Yeh

Date signed

Shilpa Talwar

Date signed

Muthaiah Venkatachalam

Date signed

**ASSIGNMENT**

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

Nageen Himayat; Alexander Sirotkin; Jing Zhu; Alexandre Stojanovski; Mo-han Fong; Pingping Zong; Vivek G. Gupta; Huaning Niu; Konstantinos Dimou; Shu-Ping Yeh; Shilpa Talwar; Muthaiah Venkatachalam

hereby sell, assign, and transfer to:

**Intel 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:

**RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR CELL SELECTION AND TRAFFIC STEERING FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES**

(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 26, 2014 as

US Application Number 14/583,223 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 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

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.

_____ Nageen Himayat	_____ Date signed
_____ Alexander Sirotkin	_____ Date signed
_____ Jing Zhu	_____ Date signed
_____ Alexandre Stojanovski	_____ Date signed
_____ Mo-han Fong	_____ Date signed
_____ Pingping Zong	_____ Date signed
_____ Vivek G. Gupta	_____ Date signed
_____ Huaning Niu	_____ Date signed
_____ Konstantinos Dimou	_____ Date signed



Shu-Ping Yeh

Date signed

*Shilpa Talwar*  
Shilpa Talwar

11/5/15  
Date signed

Muthaiah Venkatachalam

Date signed

## **ASSIGNMENT**

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

Nageen Himayat; Alexander Sirotkin; Jing Zhu; Alexandre Stojanovski; Mo-han Fong; Pingping Zong; Vivek G. Gupta; Huaning Niu; Konstantinos Dimou; Shu-Ping Yeh; Shilpa Talwar; Muthaiah Venkatachalam

hereby sell, assign, and transfer to:

### **Intel 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:

### **RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR CELL SELECTION AND TRAFFIC STEERING FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES**

**(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 26, 2014 as

US Application Number 14/583,223 and  
COUNTRY or International Office

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

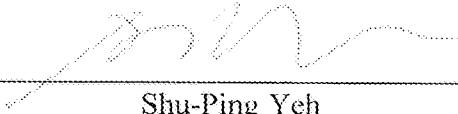
and in and to said application and all Additional Applications, and all other patent applications that have been or shall be filed in the United States and all other countries and international filing offices on any of said inventions and improvements; and in and to all original and reissued patents 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 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

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.

_____ Nageen Himayat	_____ Date signed
_____ Alexander Sirotkin	_____ Date signed
_____ Jing Zhu	_____ Date signed
_____ Alexandre Stojanovski	_____ Date signed
_____ Mo-han Fong	_____ Date signed
_____ Pingping Zong	_____ Date signed
_____ Vivek G. Gupta	_____ Date signed
_____ Huaning Niu	_____ Date signed
_____ Konstantinos Dimou	_____ Date signed



Shu-Ping Yeh

Jan 5, 2015

Date signed

Shilpa Talwar

Date signed

Muthaiah Venkatachalam

Date signed

Attorney Docket No.: P68898

**ASSIGNMENT**

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

Nageen Himayat; Alexander Sirotkin; Jing Zhu; Alexandre Stojanovski; Mo-han Fong; Pingping Zong; Vivek G. Gupta; Huaning Niu; Konstantinos Dimou; Shu-Ping Yeh; Shilpa Talwar; Muthaiah Venkatachalam

hereby sell, assign, and transfer to:

**Intel 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:

**RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR CELL SELECTION AND  
TRAFFIC STEERING FOR INTEGRATED WLAN/3GPP RADIO ACCESS  
TECHNOLOGIES**

(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 26, 2014 as

US Application Number 14/583,223 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

**Attorney Docket No.: P68898**

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

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.

_____	_____
Nageen Himayat	Date signed
_____	_____
Alexander Sirotkin	Date signed
_____	_____
	01/15/2015
Jing Zhu	Date signed
_____	_____
Alexandre Stojanovski	Date signed
_____	_____
Mo-han Fong	Date signed
_____	_____
Pingping Zong	Date signed
_____	_____
Vivek G. Gupta	Date signed
_____	_____
Huaning Niu	Date signed
_____	_____
Konstantinos Dimou	Date signed

**Attorney Docket No.: P68898**

\_\_\_\_\_  
Shu-Ping Yeh

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Shilpa Talwar

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Muthaiah Venkatachalam

\_\_\_\_\_  
Date signed

## ASSIGNMENT

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

Nageen Himayat; Alexander Sirotkin; Jing Zhu; Alexandre Stojanovski; Mo-han Fong; Pingping Zong; Vivek G. Gupta; Huaning Niu; Konstantinos Dimou; Shu-Ping Yeh; Shilpa Talwar; Muthaiah Venkatachalam

hereby sell, assign, and transfer to:

### **Intel 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:

### **RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR CELL SELECTION AND TRAFFIC STEERING FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES**

(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 26, 2014 as

US Application Number 14/583,223 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 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

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.

_____ Nageen Himayat	_____ Date signed
_____ Alexander Sirotkin	_____ Date signed
_____ Jing Zhu	_____ Date signed
 _____ Alexandre Stojanovski	<i>07 JAN 2015</i> _____ Date signed
_____ Mo-han Fong	_____ Date signed
_____ Pingping Zong	_____ Date signed
_____ Vivek G. Gupta	_____ Date signed
_____ Huaning Niu	_____ Date signed
_____ Konstantinos Dimou	_____ Date signed

---

Shu-Ping Yeh

---

Date signed

---

Shilpa Talwar

---

Date signed

---

Muthaiah Venkatachalam

---

Date signed

**ASSIGNMENT**

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

Nageen Himayat; Alexander Sirotkin; Jing Zhu; Alexandre Stojanovski; Mo-han Fong; Pingping Zong; Vivek G. Gupta; Huaning Niu; Konstantinos Dimou; Shu-Ping Yeh; Shilpa Talwar; Muthaiah Venkatachalam

hereby sell, assign, and transfer to:

**Intel 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:

**RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR CELL SELECTION AND TRAFFIC STEERING FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES**

(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 26, 2014 as

US Application Number 14/583,223 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 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

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.

\_\_\_\_\_  
Nageen Himayat

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Alexander Sirotkin

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Jing Zhu

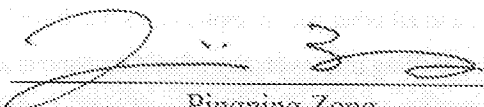
\_\_\_\_\_  
Date signed

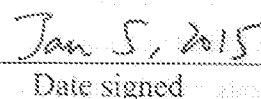
\_\_\_\_\_  
Alexandre Stojanovski

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Mo-han Fong

\_\_\_\_\_  
Date signed

  
\_\_\_\_\_  
Pingping Zong

  
\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Vivek G. Gupta

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Huanning Niu

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Konstantinos Dimou

\_\_\_\_\_  
Date signed

Shu-Ping Yeh

Date signed

Shilpa Talwar

Date signed

Muthaiah Venkatachalam

Date signed

## ASSIGNMENT

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

Nageen Himayat; Alexander Sirotkin; Jing Zhu; Alexandre Stojanovski; Mo-han Fong; Pingping Zong; Vivek G. Gupta; Huaning Niu; Konstantinos Dimou; Shu-Ping Yeh; Shilpa Talwar; Muthaiah Venkatachalam

hereby sell, assign, and transfer to:

### **Intel 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:

### **RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR CELL SELECTION AND TRAFFIC STEERING FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES**

(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 26, 2014 as

US Application Number 14/583,223 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 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

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.

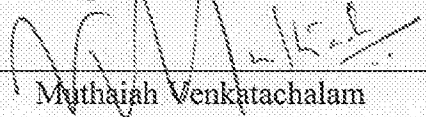
_____ Nageen Himayat	_____ Date signed
_____ Alexander Sirotkin	_____ Date signed
_____ Jing Zhu	_____ Date signed
_____ Alexandre Stojanovski	_____ Date signed
_____ Mo-han Fong	_____ Date signed
_____ Pingping Zong	_____ Date signed
_____ Vivek G. Gupta	_____ Date signed
_____ Huaning Niu	_____ Date signed
_____ Konstantinos Dimou	_____ Date signed


\_\_\_\_\_  
Shu-Ping Yeh

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Shilpa Talwar

\_\_\_\_\_  
Date signed

  
\_\_\_\_\_  
Muthaiah Venkatachalam

  
\_\_\_\_\_  
Date signed  
1/5/2015



## ASSIGNMENT

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

Nageen Himayat; Alexander Sirotkin; Jing Zhu; Alexandre Stojanovski; Mo-han Fong; Pingping Zong; Vivek G. Gupta; Huaning Niu; Konstantinos Dimou; Shu-Ping Yeh; Shilpa Talwar; Muthaiah Venkatachalam

hereby sell, assign, and transfer to:

### **Intel 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:

### **RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR CELL SELECTION AND TRAFFIC STEERING FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES**

(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 26, 2014 as

US Application Number 14/583,223 and  
COUNTRY or International Office

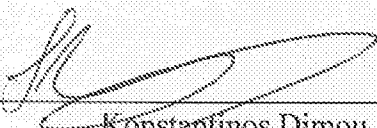
which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

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 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

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.

_____ Nageen Himayat	_____ Date signed
_____ Alexander Sirotkin	_____ Date signed
_____ Jing Zhu	_____ Date signed
_____ Alexandre Stojanovski	_____ Date signed
_____ Mo-han Fong	_____ Date signed
_____ Pingping Zong	_____ Date signed
_____ Vivek G. Gupta	_____ Date signed
_____ Huaning Niu	_____ Date signed
 _____ Konstantinos Dimou	_____ 2015-01-05 Date signed

\_\_\_\_\_  
Shu-Ping Yeh

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Shilpa Talwar

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Muthaiah Venkatachalam

\_\_\_\_\_  
Date signed

## ASSIGNMENT

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

Nageen Himayat; Alexander Sirotkin; Jing Zhu; Alexandre Stojanovski; Mo-han Fong; Pingping Zong; Vivek G. Gupta; Huaning Niu; Konstantinos Dimou; Shu-Ping Yeh; Shilpa Talwar; Muthaiah Venkatachalam

hereby sell, assign, and transfer to:

### **Intel 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:

### **RADIO RESOURCE CONTROL (RRC) PROTOCOL FOR CELL SELECTION AND TRAFFIC STEERING FOR INTEGRATED WLAN/3GPP RADIO ACCESS TECHNOLOGIES**

(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 26, 2014 as

US Application Number 14/583,223 and  
COUNTRY or International Office

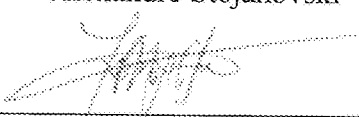
which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

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 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

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.

_____ Nageen Himayat	_____ Date signed
_____ Alexander Sirotkin	_____ Date signed
_____ Jing Zhu	_____ Date signed
_____ Alexandre Stojanovski	_____ Date signed
 _____ Mo-han Fong	JAN 30, 2015 _____ Date signed
_____ Pingping Zong	_____ Date signed
_____ Vivek G. Gupta	_____ Date signed
_____ Huaning Niu	_____ Date signed
_____ Konstantinos Dimou	_____ Date signed

\_\_\_\_\_  
Shu-Ping Yeh

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Shilpa Talwar

\_\_\_\_\_  
Date signed

\_\_\_\_\_  
Muthaiah Venkatachalam

\_\_\_\_\_  
Date signed