

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4056671

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PHILIP MICHAEL HAWKES	01/20/2012
ANDREAS KLAUS WACHTER	01/20/2012
ADRIAN EDWARD ESCOTT	01/20/2012
STEPHEN WILLIAM EDGE	01/20/2012
RECEIVING PARTY DATA	
Name:	QUALCOMM INCORPORATED
Street Address:	5775 MOREHOUSE DRIVE
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15217880
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>	
Phone:	650-752-2426
Email:	vphan@kilpatricktownsend.com, qcominst@kilpatricktownsend.com
Correspondent Name:	VIVIAN PHAN
Address Line 1:	1080 MARSH ROAD
Address Line 4:	MENLO PARK, CALIFORNIA 94025
ATTORNEY DOCKET NUMBER:	110404D1D1 (1015583)
NAME OF SUBMITTER:	VIVIAN PHAN
SIGNATURE:	/Vivian Phan/
DATE SIGNED:	09/16/2016
Total Attachments: 12	
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ASSIGNMENT

WHEREAS, WE,

1. **Philip Michael Hawkes**, a citizen of Australia, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Warrimoo, Australia,
2. **Andres Wachter**, a citizen of Germany, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Menlo Park, CA,
3. **Adrian Edward Escott**, a citizen of United Kingdom, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Reading, United Kingdom,
4. **Stephen William Edge**, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Escondido, CA,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **AUTHENTICATION IN SECURE USER PLANE LOCATION (SUPL) SYSTEMS** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, QUALCOMM Incorporated (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 13/288,949 filed **November 3, 2011**, Qualcomm Reference No. 110404 and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/410,882, filed **November 6, 2010**, Qualcomm Reference No. 110404P1, together with U.S. Provisional Application No(s). 61/437,184 filed **January 28, 2011**, Qualcomm Reference No. 110404P2, together with U.S. Provisional Application No(s). 61/471,048, filed **April 1, 2011**, Qualcomm Reference No. 110404P3, together with U.S. Provisional Application No(s). 61/527,341, filed **August 25, 2011**, Qualcomm Reference No. 110404P4, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part

applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at SYDNEY, on 20 Jan 2012 *Philip Michael Hawkes*
LOCATION DATE Philip Michael Hawkes

Done at _____, on _____
LOCATION DATE Andres Wachter

Done at _____, on _____
LOCATION DATE Adrian Edward Escott

Done at _____, on _____
LOCATION DATE Stephen William Edge

PATENT
QUALCOMM Ref. No. 110404
Page 1 of 3

ASSIGNMENT

WHEREAS, WE,

1. **Philip Michael Hawkes**, a citizen of Australia, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Warrimoo, Australia,
2. **Andreas Wachter**, a citizen of Germany, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Menlo Park, CA,
3. **Adrian Edward Escott**, a citizen of United Kingdom, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Reading, United Kingdom,
4. **Stephen William Edge**, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Escondido, CA,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **AUTHENTICATION IN SECURE USER PLANE LOCATION (SUPL) SYSTEMS** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, QUALCOMM Incorporated (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 13/288,949 filed **November 3, 2011**, Qualcomm Reference No. 110404 and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/410,882, filed **November 6, 2010**, Qualcomm Reference No. 110404P1, together with U.S. Provisional Application No(s). 61/437,184 filed **January 28, 2011**, Qualcomm Reference No. 110404P2, together with U.S. Provisional Application No(s). 61/471,048, filed **April 1, 2011**, Qualcomm Reference No. 110404P3, together with U.S. Provisional Application No(s). 61/527,341, filed **August 25, 2011**, Qualcomm Reference No. 110404P4, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part

PATENT

QUALCOMM Ref. No. 110404

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applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

PATENT**REEL: 039770 FRAME: 0873**

PATENT

QUALCOMM Ref. No. 110404

Page 3 of 3

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at _____, on _____
LOCATION DATE Philip Michael Hawkes

Done at Santa Clara, on 1-20-2012
LOCATION DATE Andreas Wachter

Done at _____, on _____
LOCATION DATE Adrian Edward Escott

Done at _____, on _____
LOCATION DATE Stephen William Edge

PATENT

REEL: 039770 FRAME: 0874

ASSIGNMENT

WHEREAS, WE,

1. **Philip Michael Hawkes**, a citizen of Australia, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Warrimoo, Australia,
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3. **Adrian Edward Escott**, a citizen of United Kingdom, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Reading, United Kingdom,
4. **Stephen William Edge**, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Escondido, CA,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **AUTHENTICATION IN SECURE USER PLANE LOCATION (SUPL) SYSTEMS** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, QUALCOMM Incorporated (hereinafter "**ASSIGNEE**"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 13/288,949 filed **November 3, 2011**, Qualcomm Reference No. 110404 and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/410,882, filed **November 6, 2010**, Qualcomm Reference No. 110404P1, together with U.S. Provisional Application No(s). 61/437,184 filed **January 28, 2011**, Qualcomm Reference No. 110404P2, together with U.S. Provisional Application No(s). 61/471,048, filed **April 1, 2011**, Qualcomm Reference No. 110404P3, together with U.S. Provisional Application No(s). 61/527,341, filed **August 25, 2011**, Qualcomm Reference No. 110404P4, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part

applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

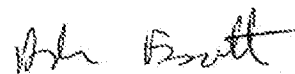
Done at _____, on _____
LOCATION DATE

Philip Michael Hawkes

Done at _____, on _____
LOCATION DATE

Andres Wachter

Done at Farnborough, UK, on 20th January 2012
LOCATION DATE


Adrian Edward Escott

Done at _____, on _____
LOCATION DATE

Stephen William Edge

ASSIGNMENT

WHEREAS, WE,

1. **Philip Michael Hawkes**, a citizen of Australia, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Warrimoo, Australia,
2. **Andres Wachter**, a citizen of Germany, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Menlo Park, CA,
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have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **AUTHENTICATION IN SECURE USER PLANE LOCATION (SUPL) SYSTEMS** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, QUALCOMM Incorporated (hereinafter "**ASSIGNEE**"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). **13/288,949** filed **November 3, 2011**, Qualcomm Reference No. **110404** and all provisional applications relating thereto, together with U.S. Provisional Application No(s). **61/410,882**, filed **November 6, 2010**, Qualcomm Reference No. **110404P1**, together with U.S. Provisional Application No(s). **61/437,184** filed **January 28, 2011**, Qualcomm Reference No. **110404P2**, together with U.S. Provisional Application No(s). **61/471,048**, filed **April 1, 2011**, Qualcomm Reference No. **110404P3**, together with U.S. Provisional Application No(s). **61/527,341**, filed **August 25, 2011**, Qualcomm Reference No. **110404P4**, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part

applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

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AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at _____, on _____
LOCATION DATE Philip Michael Hawkes

Done at _____, on _____
LOCATION DATE Andres Wachter

Done at _____, on _____
LOCATION DATE Adrian Edward Escott

Done at Essex, MA, on June 2, 2012
LOCATION DATE Stephen William Edge