

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>GEORGE CHERIAN</td> <td>11/21/2012</td> </tr> <tr> <td>PHILIP MICHAEL HAWKES</td> <td>12/19/2012</td> </tr> <tr> <td>SANTOSH PAUL ABRAHAM</td> <td>11/19/2012</td> </tr> <tr> <td>HEMANTH SAMPATH</td> <td>11/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	GEORGE CHERIAN	11/21/2012	PHILIP MICHAEL HAWKES	12/19/2012	SANTOSH PAUL ABRAHAM	11/19/2012	HEMANTH SAMPATH	11/26/2012
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>QUALCOMM Incorporated</td> </tr> <tr> <td>Street Address:</td> <td>5775 Morehouse Drive</td> </tr> <tr> <td>City:</td> <td>San Diego</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92121-1714</td> </tr> </table>		Name:	QUALCOMM Incorporated	Street Address:	5775 Morehouse Drive	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92121-1714
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14180904</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14180904						
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Application Number:	14180904										
CORRESPONDENCE DATA											
Fax Number:	(858)658-2502										
Phone:	(858) 651-5205										
Email:	usdocketing@qualcomm.com										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	QUALCOMM INCORPORATED										
Address Line 1:	5775 MOREHOUSE DRIVE										
Address Line 4:	SAN DIEGO, CALIFORNIA 92121-1714										
ATTORNEY DOCKET NUMBER:	121585D2										
NAME OF SUBMITTER:	SHAE PENTURF										
Signature:	/Shae Penturf/										

Date:

02/14/2014

Total Attachments: 12

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ASSIGNMENT

WHEREAS, WE,

1. **George Cherian**, a citizen of the **United States of America**, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US, and a resident of **San Diego, California**;
2. **Philip Michael Hawkes**, a citizen of **Australia**, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US, and a resident of **Warrimoo, Australia**;
3. **Santosh Paul Abraham**, a citizen of the **United States of America**, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US, and a resident of **San Diego, California**;
4. **Hemanth Sampath**, a citizen of the **United States of America**, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of **San Diego, California**

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 **SYSTEMS AND METHODS OF PERFORMING LINK SETUP AND AUTHENTICATION** (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). **13/610,730** filed **September 11th, 2012**, Qualcomm Reference No. **121585** and all provisional applications relating thereto, together with U.S. Provisional Application No(s). **61/533,627**, filed **September 12th, 2011**, Qualcomm Reference No. **113346P1** and U.S. Provisional Application No(s). **61/535,234**, filed **September**

15th, 2011, Qualcomm Reference No. 113346P2 and and U.S. Provisional Application No(s). 61/583,052, filed January 4th, 2012, Qualcomm Reference No. 113346P3 and U.S. Provisional Application No(s). 61/606,794, filed March 5th, 2012, Qualcomm Reference No. 121585P1 and U.S. Provisional Application No(s). 61/645,987, filed May 11th, 2012, Qualcomm Reference No. 121585P2 and U.S. Provisional Application No(s). 61/611,553, filed March 15th, 2012, Qualcomm Reference No. 121602P1 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 San Diego, California on Nov 21, 2012
LOCATION DATE


George Cherian

Done at Warrimoo, Australia on _____
LOCATION DATE

Philip Michael Hawkes

Done at San Diego, California on _____
LOCATION DATE

Santosh Paul Abraham

Done at San Diego, California on _____
LOCATION DATE

Hemanth Sampath

ASSIGNMENT

WHEREAS, WE,

1. **George Cherian**, a citizen of the United States of America, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US, and a resident of San Diego, California;
2. **Phillip Michael Hawkes**, a citizen of Australia, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US, and a resident of Warrimoo, Australia;
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4. **Hemanth Sampath**, a citizen of the United States of America, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of San Diego, California

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 **SYSTEMS AND METHODS OF PERFORMING LINK SETUP AND AUTHENTICATION** (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). 13/610,730 filed September 11th, 2012, Qualcomm Reference No. 121585 and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/533,627, filed September 12th, 2011, Qualcomm Reference No. 113346P1 and U.S. Provisional Application No(s). 61/535,234, filed September

15th, 2011, Qualcomm Reference No. 113346P2 and and U.S. Provisional Application No(s). 61/583,052, filed January 4th, 2012, Qualcomm Reference No. 113346P3 and U.S. Provisional Application No(s). 61/606,794, filed March 5th, 2012, Qualcomm Reference No. 121585P1 and U.S. Provisional Application No(s). 61/645,987, filed May 11th, 2012, Qualcomm Reference No. 121585P2 and U.S. Provisional Application No(s). 61/611,553, filed March 15th, 2012, Qualcomm Reference No. 121602P1 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 San Diego, California on _____
LOCATION DATE George Cherian

Done at Warrimoo, Australia on 19 Dec 2002
LOCATION DATE Philip Michael Hawkes

Done at San Diego, California on _____
LOCATION DATE Santosh Paul Abraham

Done at San Diego, California on _____
LOCATION DATE Hemanth Sampath

ASSIGNMENT

WHEREAS, WE,

1. George Cherian, a citizen of the United States of America, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US, and a resident of San Diego, California;
2. Philip Michael Hawkes, a citizen of Australia, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US, and a resident of Warrimoo, Australia;
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15th, 2011, Qualcomm Reference No. 113346P2 and and U.S. Provisional Application No(s). 61/583,052, filed January 4th, 2012, Qualcomm Reference No. 113346P3 and U.S. Provisional Application No(s). 61/606,794, filed March 5th, 2012, Qualcomm Reference No. 121585P1 and U.S. Provisional Application No(s). 61/645,987, filed May 11th, 2012, Qualcomm Reference No. 121585P2 and U.S. Provisional Application No(s). 61/611,553, filed March 15th, 2012, Qualcomm Reference No. 121602P1 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;

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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 San Diego, California on _____
LOCATION DATE George Cherian

Done at Warrimoo, Australia on _____
LOCATION DATE Philip Michael Hawkes

Done at San Diego, California on 11/19/2012
LOCATION DATE Santosh Paul Abraham

Done at San Diego, California on _____
LOCATION DATE Hemanth Sampath

ASSIGNMENT

WHEREAS, WE,

1. **George Cherian**, a citizen of **the United States of America**, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US, and a resident of **San Diego, California;**
2. **Philip Michael Hawkes**, a citizen of **Australia**, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US, and a resident of **Warrimoo, Australia;**
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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.

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15th, 2011, Qualcomm Reference No. 113346P2 and and U.S. Provisional Application No(s). 61/583,052, filed January 4th, 2012, Qualcomm Reference No. 113346P3 and U.S. Provisional Application No(s). 61/606,794, filed March 5th, 2012, Qualcomm Reference No. 121585P1 and U.S. Provisional Application No(s). 61/645,987, filed May 11th, 2012, Qualcomm Reference No. 121585P2 and U.S. Provisional Application No(s). 61/611,553, filed March 15th, 2012, Qualcomm Reference No. 121602P1 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;

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Done at San Diego, California on _____
LOCATION DATE George Cherian

Done at Warrimoo, Australia on _____
LOCATION DATE Philip Michael Hawkes

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Done at San Diego, California on 11/26/12
LOCATION DATE Hemanth Sampath