

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| NOEL ANDREW BAINBRIDGE | 11/02/2018 |
| MATTHEW JOHN BALKWILL | 11/05/2018 |
| BOZIDAR RADUNOVIC | 11/02/2018 |
| RECEIVING PARTY DATA | |
| Name: | MICROSOFT TECHNOLOGY LICENSING, LLC |
| Street Address: | ONE MICROSOFT WAY |
| City: | REDMOND |
| State/Country: | WASHINGTON |
| Postal Code: | 98052 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16180908 |
| CORRESPONDENCE DATA | |
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| <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> | |
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| Correspondent Name: | CORY A. JONES, KLARQUIST SPARKMAN, LLP |
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| Address Line 2: | ONE WORLD TRADE CENTER |
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| ATTORNEY DOCKET NUMBER: | 3382-101342-01 |
| NAME OF SUBMITTER: | CORY A. JONES |
| SIGNATURE: | /Cory A. Jones/ |
| DATE SIGNED: | 11/05/2018 |
| Total Attachments: 6 | |
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PATENT ASSIGNMENT

I, Noel Andrew BAINBRIDGE ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "IMPLEMENTATION OF CORE CELLULAR NETWORKING STACK ON CLOUD INFRASTRUCTURE" ("APPLICATION"), which:

will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES) to insert here in parentheses (filed on 11/5/2018, and given Application No. 16/180,908 by the following Office: United States Patent and Trademark Office) this APPLICATION's Application No. filing date, and Office, when known;

was filed on _____ and was given Application No. _____ by the following Office "United States Patent and Trademark Office";

Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));


ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

| Application No. | Filing Date | Office |
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For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to

the ASSIGNEE, ASSIGNOR'S entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries (APPLICATION DERIVATIVES));

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

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|  _____ Inventor's Signature | 2 Nov 2018 _____ Date |
| Noel Andrew BAINBRIDGE _____ Printed Name in English | _____ Printed Name in Native Language (if other than English) |

PATENT ASSIGNMENT

I, Matthew John BALKWILL ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "IMPLEMENTATION OF CORE CELLULAR NETWORKING STACK ON CLOUD INFRASTRUCTURE" ("APPLICATION"), which:

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|------------------------------|---|
| <u>M. J. Balkwill</u> | <u>5 - Nov - 2018</u> |
| Inventor's Signature | Date |
| <u>Matthew John BALKWILL</u> | <u></u> |
| Printed Name in English | Printed Name in Native Language (if other than English) |

PATENT ASSIGNMENT

I, Bozidar RADUNOVIC ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "IMPLEMENTATION OF CORE CELLULAR NETWORKING STACK ON CLOUD INFRASTRUCTURE" ("APPLICATION"), which:

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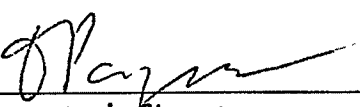
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|--|---|
|  _____ Inventor's Signature | <u>2 NOV 2018</u> Date |
| <u>Bozidar RADUNOVIC</u> Printed Name in English | <u>BOŽIDAR RADUNOVIĆ</u> Printed Name in Native Language (if other than English) |