

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ABHISHEK ASTHANA | 12/07/2018 |
| ABHISHEK CHAKRABORTY | 12/07/2018 |
| RAJESH SHETTY MANUR | 12/09/2018 |
| JOYA NEEMA | 12/07/2018 |
| RECEIVING PARTY DATA | |
| Name: | JUNIPER NETWORKS, INC. |
| Street Address: | 1133 INNOVATION WAY |
| Internal Address: | ATTN: LEGAL DEPARTMENT |
| City: | SUNNYVALE |
| State/Country: | CALIFORNIA |
| Postal Code: | 94089 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16216974 |
| CORRESPONDENCE DATA | |
| Fax Number: | (732)640-5452 |
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| ATTORNEY DOCKET NUMBER: | JUNIPER-41 |
| NAME OF SUBMITTER: | JOHN C. POKOTYLO |
| SIGNATURE: | /John C. POKOTYLO, Reg. No. 36,242/ |
| DATE SIGNED: | 12/11/2018 |
| Total Attachments: 7 | |

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ASSIGNMENT

WHEREAS, we, **Abhishek Asthana**, ASSIGNOR

a citizen of **India**, residing at **Flat No K1, Shakthi Castle 1A Cross, Kaggadasapura Main Road C.V. Raman Nagar, Near DRDO Dare Building Bangalore, Bangalore, KA, India 560093;**

Abhishek Chakraborty, ASSIGNOR

a citizen of **India**, residing at **Flat No. 107 Saranya Enclave Apartment Green Garden Layout Shridi Sai Temple Road, Munnekollale ExtnKundalahalli Gate, Bangalore, KA, India 560037;**

Rajesh Shetty Manur, ASSIGNOR

a citizen of **India**, residing at **Flat No G701, DAFFODILS, ADARSH PALM RETREAT BELLANDURLandMark: Intel Backside, Bangalore, KA, India 560103;** and

Joya Neema, ASSIGNOR

a citizen of **India**, residing at **B1 310, Genesis Apartment, Inside Suncity Appt At Sarjapura Ibbur Junction, Bangalore, India 560103**

are the inventors of the invention in:

RENDEZVOUS POINT (RP) ROUTER WITH IMPROVED PROCESSING OF FIRST HOP ROUTER (FHR) INFORMATION IN A PROTOCOL INDEPENDENT MULTICAST (PIM) NETWORK DOMAIN

for which an application for a Patent of the United States

was filed on December 11, 2018, as application Serial

Number 16/216,974

and WHEREAS, **Juniper Networks, Inc.**, a corporation of Delaware, having a place of business at

**1133 Innovation Way, Sunnyvale, CA 94089, Attn: Legal
Department**

is desirous of obtaining the entire right, title and interest in, to and under the invention and the application;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, WE, the ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the invention, and the United States application and all divisions, renewals and continuations (including all continuation-in-part applications) thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models and designs which have been or may hereafter be filed for the invention or claim the benefit of the application or any right of priority to the application, in any and all countries including any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from the United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for the invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the ASSIGNEE, its

successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the ASSIGNEE, its successors, legal representatives and assigns, any facts known to us regarding the invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for the invention in all countries.

The undersigned hereby grant(s) Pokotylo Patent Services, and any other representative of the Assignee, the power to: insert on this Assignment any further identification, including the application serial number and/or application filing date which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document and/or to insert the execution date of this assignment. The undersigned hereby further grant(s) the law firm of Pokotylo Patent Services, and its successors the power to make corrections in the assignor information and the assignee information including the assignor name and/or address and the assignee name and/or address.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this
7th day of December, 2018.



Abhishek Asthana, Assignor

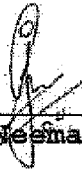
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this
7th day of December, 2018.

Abhishek Chakraborty
Abhishek Chakraborty, Assignor

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this
9 day of DECEMBER, 2018.

Rajesh Shetty M.
Rajesh Shetty Manur, Assignor

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this
7th day of December, 2018.



Joya Meema, Assignor