

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5373378

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ARUN C. ALEX	02/11/2019
AENEAS SEAN DODD-NOBLE	09/10/2018
IRFAN ALI	09/27/2018
PABLO CAMARILLO GARVIA	10/18/2018
OM PRAKASH SUTHAR	10/15/2018
RAVI KIRAN GUNTUPALLI	09/09/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Cisco Technology, Inc.
<b>Street Address:</b>	170 West Tasman Drive
<b>City:</b>	San Jose
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95134-1706
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16118554
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(301)762-4056
<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>	
<b>Phone:</b>	301-424-3640
<b>Email:</b>	mail@usiplaw.com
<b>Correspondent Name:</b>	D. ANDREW FLOAM
<b>Address Line 1:</b>	9801 WASHINGTONIAN BLVD.
<b>Address Line 2:</b>	SUITE 750
<b>Address Line 4:</b>	GAITHERSBURG, MARYLAND 20878
<b>ATTORNEY DOCKET NUMBER:</b>	0370.4765C/1017752-US.01
<b>NAME OF SUBMITTER:</b>	D. ANDREW FLOAM
<b>SIGNATURE:</b>	/D. Andrew Floam/
<b>DATE SIGNED:</b>	02/13/2019

**Total Attachments: 7**

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## ASSIGNMENT

WHEREAS, I/we the undersigned inventor(s) (hereinafter "ASSIGNOR(S)") have invented certain new and useful improvements as set forth in the patent application entitled:

### UPF PROGRAMMING OVER ENHANCED N9 INTERFACE

which is being filed herewith

which was filed on August 31, 2018 as United States Patent Application No. 16/118,554

(hereinafter the "Application").

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the ASSIGNOR(S):


- 1) Have assigned, transferred and set over, and by these presents do hereby assign, transfer and set over, unto **Cisco Technology, Inc.**, a California corporation having a place of business at 170 West Tasman Drive, San Jose, California 95134-1706 (hereinafter "ASSIGNEE") and its successors and assigns, each ASSIGNOR's entire right, title, and interest in, to, and under, the Application and any and all improvements disclosed in the Application, as well as any and all other applications that may be based upon, and patent(s) which may be granted upon, the information that is disclosed in the Application, throughout the World, including without prejudice to the generality of the foregoing:

the right to file applications and to obtain patents or like protection (including, e.g., utility models, inventors' certificates, and/or designs) for the improvements in any country throughout the World, including the right to claim priority from any such application; and any and all provisional, non-provisional, divisional, continuing (whether a continuation or a continuation in part), substitute, renewal, reissue, and other applications for Letters Patent which have been or shall be filed in any country on any of the improvements; and in and to all original and reissued patents which have been or shall be filed in any country on any of the improvements;

- 2) 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, as applicable, to issue the same to ASSIGNEE and its successors and assigns, in accordance with the terms of the instrument;
- 3) Covenant and agree, when requested and at no charge to, but at the expense of, ASSIGNEE and its successors and assigns, to: execute all applications for the improvements (including without limitation any and all provisional, non-provisional, divisional, continuing (whether a continuation or a continuation in part), substitute, renewal, reissue, and other patent applications); execute all rightful oaths, assignments, powers of attorney and other papers; communicate to ASSIGNEE, its successors, assigns, and legal representatives, all facts known to the undersigned relating to the improvements and the history thereof; and perform any acts that ASSIGNEE, its successors, assigns or legal representatives consider reasonably necessary for securing and maintaining proper patent protection for the improvements, for vesting title to the improvements and all patent applications and patents for the improvements, in ASSIGNEE and its

successors and assigns, and for enforcing the rights of ASSIGNEE and its successor and assigns, in and to any or all of the improvements and any application(s) or patent(s) therefor;

- 4) Covenant and agree that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed, and will not execute, any agreement in conflict herewith.
- 5) Covenant and agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE and its successors and assigns, and shall be binding upon me/us and my/our heirs, assigns, and legal representatives.
- 6) Covenant and agree that this assignment and any action, suit, proceeding or claim arising under or relating to this assignment will be governed, interpreted, construed, and enforced in all respects in accordance with the laws of the State of California and by any controlling Federal U.S. law with respect to the subject matter, without reference to its choice of law principles to the contrary.
- 7) Authorize a representative of Edell, Shapiro & Finnan, LLC, 9801 Washingtonian Blvd., Suite 750, Gaithersburg, MD 20878, to insert in the blanks above the filing date and application number of the Application when known.

Signature:   
Typed Name: Aron C. Alex  
Address: 64 Cherrywood Dr., Nashua, NH 03062

Date: 2/11/2014

Signature: \_\_\_\_\_  
Typed Name: Aeneas Sean Dodd-Noble  
Address: 147 Haggetts Pond Rd., Andover, MA 01810

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Typed Name: Irfan Ali  
Address: 2585 Park Blvd., Apt. Z208, Palo Alto, CA 94306

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Typed Name: Pablo Camarillo Garvia  
Address: Calle Titulcia 10, Piso 2, Madrid 28007, ES

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Typed Name: Om Prakash Suthar  
Address: 725 Metropolitan Ave., Bolingbrook, IL 60490

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Typed Name: Ravi Kiran Guntupalli  
Address: 5420 Travis Ct., Cumming, GA 30040

Date: \_\_\_\_\_

communicate to ASSIGNEE, its successors, assigns, and legal representatives, all facts known to the undersigned relating to the improvements and the history thereof; and perform any acts that ASSIGNEE, its successors, assigns or legal representatives consider reasonably necessary for securing and maintaining proper patent protection for the improvements, for vesting title to the improvements and all patent applications and patents for the improvements, in ASSIGNEE and its successors and assigns, and for enforcing the rights of ASSIGNEE and its successor and assigns, in and to any or all of the improvements and any application(s) or patent(s) therefor;

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- 7) Authorize a representative of **Fernando & Partners, LLP**, to insert in the blanks above the filing date and application number of the Application when known.

Signature: \_\_\_\_\_ Date: 9/10/18  
Typed Name: Ashtas Sean Dodd-Noble  
Address: 147 Haggetts Pond Rd., Andover, MA 01810

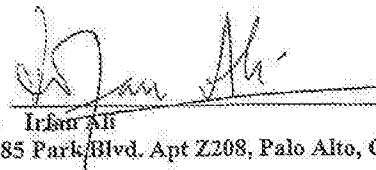
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Typed Name: Irfan Ali  
Address: 2585 Park Blvd. Apt Z208, Palo Alto, CA 94306

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Typed Name: Pablo Camarillo Garvia  
Address: Calle Titulcia 10, Piso 2, Madrid 28007 ES

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- 7) Authorize a representative of **Fernando & Partners, LLP**, to insert in the blanks above the filing date and application number of the Application when known.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Typed Name: Aeneas Sean Dodd-Noble  
Address: 147 Haggetts Pond Rd., Andover, MA 01810

Signature:  \_\_\_\_\_ Date: 09/27/2018  
Typed Name: Irhan Ali  
Address: 2585 Park Blvd. Apt Z208, Palo Alto, CA 94306


Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Typed Name: Pablo Camarillo Garvia  
Address: Calle Titulcia 10, Piso 2, Madrid 28007 ES


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- 7) Authorize a representative of Fernando & Partners, LLP, to insert in the blanks above the filing date and application number of the Application when known.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Typed Name: Aeneas Sean Dodd-Noble  
Address: 147 Haggetts Pond Rd., Andover, MA 01810

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Typed Name: Irfan Ali  
Address: 2585 Park Blvd. Apt Z208, Palo Alto, CA 94306

Signature:  \_\_\_\_\_ Date: 18<sup>th</sup> Oct. 2018  
Typed Name: Pablo Camarillo Garvia  
Address: Calle Titulcia 10, Piso 2, Madrid 28007 ES

Signature:  \_\_\_\_\_ Date: 10/15/2018  
Typed Name: **Om Prakash Suthar**  
Address: **725 Metropolitan Ave., Bolingbrook, IL 60490**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Typed Name: **Ravi Kiran Guntupalli**  
Address: **5420 Travis Ct., Cumming, GA 30040**



Att. Docket No.: CPOL1017752-US.0 / 24726-30442US

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Typed Name: Om Prakash Suthar  
Address: 725 Metropolitan Ave., Bolingbrook, IL 60490

Signature: *Ravi Kiran* Date: 09/09/2018  
Typed Name: Ravi Kiran Guntupalli  
Address: 5420 Travis Ct., Cumming, GA 30040