

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Richard M. PRUSS</td> <td>04/04/2013</td> </tr> <tr> <td>John E. MCDOWALL</td> <td>04/11/2013</td> </tr> <tr> <td>Jan MEDVED</td> <td>04/03/2013</td> </tr> <tr> <td>Larry ABRAHAMS</td> <td>04/26/2013</td> </tr> </tbody> </table>		Name	Execution Date	Richard M. PRUSS	04/04/2013	John E. MCDOWALL	04/11/2013	Jan MEDVED	04/03/2013	Larry ABRAHAMS	04/26/2013
Name	Execution Date										
Richard M. PRUSS	04/04/2013										
John E. MCDOWALL	04/11/2013										
Jan MEDVED	04/03/2013										
Larry ABRAHAMS	04/26/2013										
RECEIVING PARTY DATA											
Name:	CISCO Technology, Inc.										
Street Address:	170 West Tasman Drive										
City:	San Jose										
State/Country:	CALIFORNIA										
Postal Code:	95134										
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>13844326</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13844326						
Property Type	Number										
Application Number:	13844326										
CORRESPONDENCE DATA											
Fax Number:	7136234846										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	713-623-4844										
Email:	psdocketing@pattersonsheridan.com, vkubitskey@pattersonsheridan.com										
Correspondent Name:	Patterson & Sheridan LLP										
Address Line 1:	3040 Post Oak Blvd.										
Address Line 2:	Suite 1500										
Address Line 4:	Houston, TEXAS 77056-6582										
ATTORNEY DOCKET NUMBER:	CPOL983880US										
NAME OF SUBMITTER:	Jon K. Stewart										

OP \$40.00 13844326

Signature:	/Jon K. Stewart, Reg. #54945/
Date:	04/26/2013
Total Attachments: 5 source=CPOL983880US_ASSIGNMENT#page1.tif source=CPOL983880US_ASSIGNMENT#page2.tif source=CPOL983880US_ASSIGNMENT#page3.tif source=CPOL983880US_ASSIGNMENT#page4.tif source=CPOL983880US_ASSIGNMENT#page5.tif	

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	Richard M. PRUSS 170 West Tasman Drive San Jose, CA 95134	2)	John E. MCDOWALL 170 West Tasman Drive San Jose, CA 95134
3)	Jan MEDVED 170 West Tasman Drive San Jose, CA 95134	4)	Larry ABRAHAMS 170 West Tasman Drive San Jose, CA 95134

(hereinafter referred to as Assignors), have invented a certain invention entitled:

**AUTOMATION AND PROGRAMMABILITY FOR SOFTWARE DEFINED NETWORKING SYSTEMS**

enclosed herewith or for which application for Letters Patent in the United States was filed on March 15, 2013,

under Serial No. 13/844,326, executed on even date herewith; and

WHEREAS, Cisco Technology, Inc., a corporation of the State of California, having a place of business at 170 West Tasman Drive, San Jose, California 95134 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said


Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting conventional, substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

- 1) 4/4/2013 (DATE)   
RICHARD M. PRUSS
- 2) \_\_\_\_\_ (DATE) \_\_\_\_\_  
JOHN E. MCDOWALL
- 3) \_\_\_\_\_ (DATE) \_\_\_\_\_  
JAN MEDVED
- 4) \_\_\_\_\_ (DATE) \_\_\_\_\_  
LARRY ABRAHAMS

Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting conventional, substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) \_\_\_\_\_ (DATE) \_\_\_\_\_  
RICHARD M. PRUSS

2) \_\_\_\_\_ (DATE) \_\_\_\_\_  
JOHN E. MCDOWALL

3) 2013/04/03 (DATE) \_\_\_\_\_  
JAN MEDVED

4) \_\_\_\_\_ (DATE) \_\_\_\_\_  
LARRY ABRAHAMS

Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting conventional, substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) \_\_\_\_\_ (DATE) \_\_\_\_\_  
RICHARD M. PRUSS

2) \_\_\_\_\_ (DATE) \_\_\_\_\_  
JOHN E. MCDOWALL

3) \_\_\_\_\_ (DATE) \_\_\_\_\_  
JAN MEDVED

4) 4/26/12 (DATE) \_\_\_\_\_  
LARRY ABRAHAMS

Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting conventional, substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

- 1) \_\_\_\_\_ (DATE) \_\_\_\_\_  
RICHARD M. PRUSS
- 2) 4/11/13 (DATE) \_\_\_\_\_  
JOHN E. MCDOWALL
- 3) \_\_\_\_\_ (DATE) \_\_\_\_\_  
JAN MEDVED
- 4) \_\_\_\_\_ (DATE) \_\_\_\_\_  
LARRY ABRAHAMS