

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT2992459

|                                                                                                                                                                                                 |                              |
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| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT               |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                   |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                              |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>        |
| STARENT NETWORKS LLC                                                                                                                                                                            | 05/26/2011                   |
| <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                        |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                              |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                |
| Application Number:                                                                                                                                                                             | 13488703                     |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                              |
| <b>Fax Number:</b>                                                                                                                                                                              | (617)526-5000                |
| <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>                                                                                                                                                                                   | 617-526-6000                 |
| <b>Email:</b>                                                                                                                                                                                   | becky.douglas@wilmerhale.com |
| <b>Correspondent Name:</b>                                                                                                                                                                      | BECKY DOUGLAS/WILMERHALE     |
| <b>Address Line 1:</b>                                                                                                                                                                          | 60 STATE STREET              |
| <b>Address Line 4:</b>                                                                                                                                                                          | BOSTON, MASSACHUSETTS 02109  |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 111244-214US3                |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | BECKY DOUGLAS                |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Becky Douglas/              |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 08/22/2014                   |
| <b>Total Attachments: 15</b>                                                                                                                                                                    |                              |
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AMENDED AND RESTATED  
CONFIRMATION  
OF  
PATENT ASSIGNMENT

This AMENDED AND RESTATED CONFIRMATION OF PATENT ASSIGNMENT ("**Assignment**") is executed by and among STARENT NETWORKS LLC, a limited liability company organized under the laws of Delaware ("**Starent US**"), CISCO SYSTEMS, INC., a California corporation ("**Cisco**") and CISCO TECHNOLOGY, INC., a California corporation ("**CTI**"). This Assignment supersedes and replaces any and all Confirmations of Patent Assignment previously executed by Starent US and CTI.

CISCO PATENTS

"**Cisco Patents**" shall mean the patents and patent applications listed on Schedule 1, as well as any and all continuations, continuations-in-part, divisionals, reexaminations, reissues, extensions, and any other patents or patent applications that claim priority therefrom, including without limitation any U.S. and non-U.S. patents or patent applications.

ASSIGNMENT

Starent US has previously assigned and transferred, and Cisco has previously received and accepted, for good and valuable consideration, all right, title and interest throughout the world in and to the Cisco Patents, and all rights, claims and privileges pertaining to the Cisco Patents, including without limitation: rights to the underlying inventions; all priority rights under all available international agreements, treaties and conventions for the protection of intellectual property in its various forms in every participating country; the right to sue and recover damages, profits and all other remedies for any past, present or future infringement of any of the foregoing; and the right to stand in the place of Starent US in all matters related thereto.

Cisco has previously assigned and transferred, and CTI has previously received and accepted, for good and valuable consideration, all right, title and interest throughout the world in and to the Cisco Patents, and all rights, claims and privileges pertaining to the Cisco Patents, including without limitation: rights to the underlying inventions; all priority rights under all available international agreements, treaties and conventions for the protection of intellectual property in its various forms in every participating country; the right to sue and recover damages, profits and all other remedies for any past, present or future infringement of any of the foregoing; and the right to stand in the place of Cisco in all matters related thereto.

Starent US and Cisco hereby authorize and request the United States Commissioner of Patents and Trademarks and the relevant officials of non-U.S. countries to implement this Assignment.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, Starent US, Cisco and CTI have caused this Amended and Restated Confirmation of Patent Assignment to be executed by their duly authorized representatives.

**STARENT NETWORKS LLC**

By: Mark T. Gorman  
Name: Mark T. Gorman  
Title: President/CEO  
Date Signed: 5-26-11

Address: 2711 Centerville Road, Suite 400  
Wilmington, DE 19808

**CISCO SYSTEMS, INC.**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date Signed: \_\_\_\_\_

Address: 170 West Tasman Drive  
San Jose, CA 95134

**CISCO TECHNOLOGY, INC.**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date Signed: \_\_\_\_\_

Address: 170 West Tasman Drive  
San Jose, CA 95134

[SIGNATURE PAGE TO STARENT NETWORKS LLC AMENDED AND RESTATED  
CONFIRMATION OF PATENT ASSIGNMENT]

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**STARENT NETWORKS LLC**

By: \_\_\_\_\_

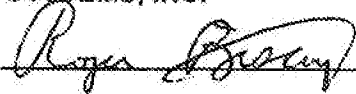
Name: \_\_\_\_\_

Title: \_\_\_\_\_

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

Address: 2711 Centerville Road, Suite 400  
Wilmington, DE 19808

**CISCO SYSTEMS, INC.**

By:  \_\_\_\_\_

Name: Roger Biscay

Title: Vice President, Treasurer

Date Signed: May 24, 2011

Address: 170 West Tasman Drive  
San Jose, CA 95134

**CISCO TECHNOLOGY, INC.**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

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

Address: 170 West Tasman Drive  
San Jose, CA 95134

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CONFIRMATION OF PATENT ASSIGNMENT]

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**STARENT NETWORKS LLC**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

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

Address: 2711 Centerville Road, Suite 400  
Wilmington, DE 19808

**CISCO SYSTEMS, INC.**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

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

Address: 170 West Tasman Drive  
San Jose, CA 95134

**CISCO TECHNOLOGY, INC.**

By: \_\_\_\_\_

Name: Evan Sloves

Title: President

Date Signed: 5/27/11

Address: 170 West Tasman Drive  
San Jose, CA 95134

[SIGNATURE PAGE TO STARENT NETWORKS LLC AMENDED AND RESTATED  
CONFIRMATION OF PATENT ASSIGNMENT]

**SCHEDULE 1  
TO PATENT ASSIGNMENT**

**PATENTS**

| <b>US Patents</b> |         |             |           |
|-------------------|---------|-------------|-----------|
| CPOL NO           | COUNTRY | DATE ISSUED | PATENT NO |
| 969225            | US      | 13-May-08   | 7372826   |
| 969228            | US      | 7-Jul-09    | 7558193   |
| 969229            | US      | 15-Feb-11   | 7889637   |
| 969231            | US      | 27-Dec-05   | 6980440   |
| 969232            | US      | 29-May-07   | 7224588   |
| 969242            | US      | 3-Nov-09    | 7613836   |
| 969246            | US      | 8-Mar-11    | 7903685   |
| 969251            | US      | 17-Nov-09   | 7620038   |
| 969254            | US      | 15-Jul-08   | 7400340   |
| 969256            | US      | 17-Feb-09   | 7492770   |
| 969262            | US      | 12-Oct-10   | 7813759   |
| 969267            | US      | 10-Jan-06   | 6985464   |
| 969275            | US      | 29-Mar-11   | 7916642   |
| 969293            | US      | 8-Feb-11    | 7885248   |
| 969294            | US      | 21-Dec-10   | 7855982   |

| <b>US Patent Applications</b> |         |            |            |
|-------------------------------|---------|------------|------------|
| CPOL NO                       | COUNTRY | DATE FILED | APPL NO    |
| 969226                        | US      | 12-May-08  | 12/119354  |
| 969227                        | US      | 12-Aug-02  | 60/402,761 |
| 969230                        | US      | 16-Aug-02  | 60/404,229 |
| 969233                        | US      | 29-May-07  | 11/807,592 |
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| 969235                        | US      | 12-Aug-03  | 10/639783  |
| 969236                        | US      | 11-Jun-09  | 12/482,910 |
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| 969238                        | US      | 19-Jul-04  | 10/893846  |
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| 969243                        | US      | 22-Jul-09  | 12/507,648 |
| 969244                        | US      | 8-May-03   | 10/431818  |
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| CPOL NO                | COUNTRY | DATE FILED | APPL NO    |
| 969249                 | US      | 27-Feb-09  | 12/395457  |
| 969250                 | US      | 16-Jul-03  | 60/487,747 |
| 969252                 | US      | 10-Mar-04  | 10/797646  |
| 969253                 | US      | 24-Nov-04  | 10/996580  |
| 969255                 | US      | 3-Sep-04   | 10/934156  |
| 969257                 | US      | 17-Feb-09  | 12/372433  |
| 969258                 | US      | 23-May-05  | 60/683,580 |
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| 969260                 | US      | 19-Jun-06  | 11/455325  |
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| 969264                 | US      | 17-Jul-06  | 11/487725  |
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| 969268                 | US      | 10-Jan-06  | 11/329,412 |
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| 969270                 | US      | 5-Aug-05   | 60/705,983 |
| 969271                 | US      | 11-Aug-05  | 60/707,363 |
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| 969273                 | US      | 7-Aug-06   | 11/500552  |
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| 969276                 | US      | 20-Oct-05  | 60/729,415 |
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| 969278                 | US      | 21-Nov-05  | 60/738,503 |
| 969279                 | US      | 14-Nov-06  | 11/598875  |
| 969280                 | US      | 11-Jan-06  | 60/758,343 |
| 969281                 | US      | 11-Jan-07  | 11/652410  |
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| 969283                 | US      | 9-Feb-06   | 60/771,991 |
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| 969285                 | US      | 26-Jun-06  | 11/475,624 |
| 969286                 | US      | 15-Nov-06  | 11/599959  |
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| 969290                 | US      | 2-Apr-07   | 11/731920  |
| 969291                 | US      | 17-Apr-06  | 60/792,521 |
| 969292                 | US      | 17-May-06  | 60/801,001 |
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| CPOL NO                | COUNTRY | DATE FILED | APPL NO    |
| 969297                 | US      | 5-Dec-07   | 11/950682  |
| 969298                 | US      | 7-Dec-07   | 11/952953  |
| 969299                 | US      | 14-Nov-07  | 11/939914  |
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| 969315                 | US      | 25-Oct-07  | 61/000,429 |
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| 969317                 | US      | 18-Jan-08  | 61/022,053 |
| 969318                 | US      | 28-Feb-08  | 61/032,370 |
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| 969321                 | US      | 7-Dec-07   | 61/012,399 |
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| 969323                 | US      | 16-May-08  | 12/122522  |
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| CPOL NO                | COUNTRY | DATE FILED | APPL NO    |
| 969337                 | US      | 18-Nov-08  | 61/115,812 |
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| 969363                 | US      | 27-Oct-09  | 61/255,358 |
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| 969980                 | US      | 15-Jan-10  | 12/688,567 |
| 969981                 | US      | 1-Mar-10   | 12/715275  |
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| 969983                 | US      | 4-Mar-10   | 12/717730  |
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| 970501                 | US      | 22-Apr-10  | 12/765322  |
| 970503                 | US      | 12-May-10  | 12/778749  |
| 970504                 | US      | 17-May-10  | 12/781436  |
| 970505                 | US      | 23-Aug-10  | 12861517   |
| 970552                 | US      | 12-Jan-10  | 12/686159  |

| US Patent Applications |         |            |                   |
|------------------------|---------|------------|-------------------|
| CPOL NO                | COUNTRY | DATE FILED | APPL NO           |
| 970553                 | US      | 8-Apr-10   | 12/756530         |
| 970554                 | US      | 18-Mar-10  | 12/726906         |
| 970555                 | US      | 14-Apr-10  | 12/760009         |
| 971589                 | US      | 30-Jul-10  | 12/847699         |
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| 971804                 | US      | 27-Sep-10  | 12/891535         |
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| 971806                 | US      | 23-Nov-10  | 12/952,909        |
| 972406                 | US      | 11-Nov-10  | 12/944594         |
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| 969267-29315           | WO      | 29-Jul-02  | PCT/US2002/023887 |
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| 969228-29211           | WO      | 12-Aug-03  | PCT/US2003/025332 |
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| 969231-29217           | WO      | 15-Aug-03  | PCT/US2003/025436 |
| 969242-29248           | WO      | 6-Oct-03   | PCT/US2003/031675 |
| 969244-29254           | WO      | 4-May-04   | PCT/US2004/013748 |
| 969248-29273           | WO      | 3-Jun-04   | PCT/US2004/017288 |
| 969246-29263           | WO      | 3-Jun-04   | PCT/US2004/017287 |
| 969238-29236           | WO      | 19-Jul-04  | PCT/US2004/023338 |
| 969239-29238           | WO      | 18-Apr-05  | PCT/US2005/013122 |
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| 969254-29289           | WO      | 15-Nov-05  | PCT/US2005/041210 |
| 969259-29295           | WO      | 23-May-06  | PCT/US2006/019849 |
| 969264-29307           | WO      | 17-Jul-06  | PCT/US2006/027834 |
| 969273-29321           | WO      | 7-Aug-06   | PCT/US2006/030509 |
| 969275-29323           | WO      | 11-Aug-06  | PCT/US2006/031392 |
| 969256-29293           | WO      | 31-Aug-06  | PCT/US2006/033994 |
| 969277-29326           | WO      | 20-Oct-06  | PCT/US2006/041195 |
| 969269-29319           | WO      | 7-Nov-06   | PCT/US2006/043396 |
| 969279-29328           | WO      | 17-Nov-06  | PCT/US2006/044929 |
| 969266-29309           | WO      | 22-Nov-06  | PCT/US2006/045256 |
| 969265-29308           | WO      | 22-Nov-06  | PCT/US2006/045326 |
| 969262-29305           | WO      | 3-Jan-07   | PCT/US2007/000132 |
| 969281-29330           | WO      | 11-Jan-07  | PCT/US2007/000671 |

| US Patent Applications |         |            |                   |
|------------------------|---------|------------|-------------------|
| CPOL NO                | COUNTRY | DATE FILED | APPL NO           |
| 969284-29338           | WO      | 9-Feb-07   | PCT/US2007/003566 |
| 969290-29347           | WO      | 2-Apr-07   | PCT/US2007/008302 |
| 969293-29352           | WO      | 17-Apr-07  | PCT/US2007/009436 |
| 969260-29301           | WO      | 19-Jun-07  | PCT/US2007/014243 |
| 969305-29378           | WO      | 10-Sep-07  | PCT/US2007/019645 |
| 969282-29334           | WO      | 1-Nov-07   | PCT/US2007/083288 |
| 969286-29342           | WO      | 13-Nov-07  | PCT/US2007/084489 |
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