

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>Jae S. Lee</td> <td>01/10/2012</td> </tr> <tr> <td>Elaine Van Horn</td> <td>01/10/2012</td> </tr> <tr> <td>Doug L. Wekamp</td> <td>01/05/2012</td> </tr> <tr> <td>Joseph Reiter</td> <td>01/05/2012</td> </tr> <tr> <td>Charles W. Brown</td> <td>01/10/2012</td> </tr> <tr> <td>Firouzeh Rahimzadeh</td> <td>01/06/2012</td> </tr> <tr> <td>Neil A. Rogers</td> <td>01/05/2012</td> </tr> <tr> <td>Joseph A. McLaughlin</td> <td>01/11/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jae S. Lee	01/10/2012	Elaine Van Horn	01/10/2012	Doug L. Wekamp	01/05/2012	Joseph Reiter	01/05/2012	Charles W. Brown	01/10/2012	Firouzeh Rahimzadeh	01/06/2012	Neil A. Rogers	01/05/2012	Joseph A. McLaughlin	01/11/2012
Name	Execution Date																		
Jae S. Lee	01/10/2012																		
Elaine Van Horn	01/10/2012																		
Doug L. Wekamp	01/05/2012																		
Joseph Reiter	01/05/2012																		
Charles W. Brown	01/10/2012																		
Firouzeh Rahimzadeh	01/06/2012																		
Neil A. Rogers	01/05/2012																		
Joseph A. McLaughlin	01/11/2012																		
RECEIVING PARTY DATA																			
<table border="1"> <tr> <td>Name:</td> <td>Verizon Patent and Licensing Inc.</td> </tr> <tr> <td>Street Address:</td> <td>One Verizon Way</td> </tr> <tr> <td>City:</td> <td>Basking Ridge</td> </tr> <tr> <td>State/Country:</td> <td>NEW JERSEY</td> </tr> <tr> <td>Postal Code:</td> <td>07920</td> </tr> </table>		Name:	Verizon Patent and Licensing Inc.	Street Address:	One Verizon Way	City:	Basking Ridge	State/Country:	NEW JERSEY	Postal Code:	07920								
Name:	Verizon Patent and Licensing Inc.																		
Street Address:	One Verizon Way																		
City:	Basking Ridge																		
State/Country:	NEW JERSEY																		
Postal Code:	07920																		
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>13348258</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13348258														
Property Type	Number																		
Application Number:	13348258																		
CORRESPONDENCE DATA																			
Fax Number:	(703)439-2658																		
Phone:	571-297-0007																		
Email:	pto@snyderllp.com																		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																			
Correspondent Name:	Snyder, Clark, Lesch & Chung, LLP																		
Address Line 1:	950 Herndon Parkway																		
Address Line 2:	Suite 365																		
Address Line 4:	Herndon, VIRGINIA 20170																		

OP \$40.00 13348258

PATENT

ATTORNEY DOCKET NUMBER:	20110649
NAME OF SUBMITTER:	Viktor Simkovic
<p>Total Attachments: 16</p> <p>source=20110649_Assignment#page1.tif</p> <p>source=20110649_Assignment#page2.tif</p> <p>source=20110649_Assignment#page3.tif</p> <p>source=20110649_Assignment#page4.tif</p> <p>source=20110649_Assignment#page5.tif</p> <p>source=20110649_Assignment#page6.tif</p> <p>source=20110649_Assignment#page7.tif</p> <p>source=20110649_Assignment#page8.tif</p> <p>source=20110649_Assignment#page9.tif</p> <p>source=20110649_Assignment#page10.tif</p> <p>source=20110649_Assignment#page11.tif</p> <p>source=20110649_Assignment#page12.tif</p> <p>source=20110649_Assignment#page13.tif</p> <p>source=20110649_Assignment#page14.tif</p> <p>source=20110649_Assignment#page15.tif</p> <p>source=20110649_Assignment#page16.tif</p>	

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned:

- I. have sold, assigned and transferred, and by the presents do hereby sell, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire worldwide right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

NETWORK AUDITING TOOL

☒ which has been executed by the undersigned concurrently herewith, and in which case I/we hereby authorize and request the Assignee, its successors, assigns and/or legal representatives, to insert here in the parentheses (Application Number 13/348258, filed January 11, 2012) the filing date and application number of said application when known.

☐ which was filed on _____ and assigned Application No. _____

and in and to said application, and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements or based on or claiming priority to said application; and in and to all original and reissued patents which have been or shall be issued in the United States and foreign countries from any of said applications, and in and to all rights of priority resulting from the filing of any of said applications; and in and to all rights which may exist under the International Convention for the Protection of Industrial Property to any of the foregoing;

- II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all Letters Patent on said improvements, in said Assignee, its successors and assigns; and

- III. covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein identified has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below:

Verizon entity (Assignee): Verizon Patent and Licensing Inc., having a place of business at One Verizon Way, Basking Ridge, New Jersey 07920.

ASSIGNORS:

Signature: _____

Jae S. Lee

Date: _____

01-10-2012

Signature: _____

Elaine Van Horn

Date: _____

Signature: _____ Date: _____
Doug L. Wekamp

Signature: _____ Date: _____
Joseph Reiter

Signature: _____ Date: _____
Charles W. Brown

Signature: _____ Date: _____
Firouzeh Rahimzadeh

Signature: _____ Date: _____
Neil A. Rogers

Signature: _____ Date: _____
Joseph A. McLaughlin

Verizon Invention Assignment
for Verizon Reference No.: 20110649
Page 1 of 2

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned:

- I. have sold, assigned and transferred, and by the presents do hereby sell, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire worldwide right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

NETWORK AUDITING TOOL

☒ which has been executed by the undersigned concurrently herewith, and in which case I/we hereby authorize and request the Assignee, its successors, assigns and/or legal representatives, to insert here in the parentheses (Application Number 13/348,258, filed January 11, 2012) the filing date and application number of said application when known.

☐ which was filed on _____ and assigned Application No. _____

and in and to said application, and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements or based on or claiming priority to said application; and in and to all original and reissued patents which have been or shall be issued in the United States and foreign countries from any of said applications, and in and to all rights of priority resulting from the filing of any of said applications; and in and to all rights which may exist under the International Convention for the Protection of Industrial Property to any of the foregoing;

- II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all Letters Patent on said improvements, in said Assignee, its successors and assigns; and
- III. covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein identified has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below:

Verizon entity (Assignee): Verizon Patent and Licensing Inc., having a place of business at One Verizon Way, Basking Ridge, New Jersey 07920.

ASSIGNORS:

Signature: _____
Jae S. Lee

Date: _____

Signature: Elaine Van Horn
Elaine Van Horn

Date: 1-10-2012

VZ Docket No.: 20110649

Full name of Additional Joint Inventor: Joseph Reiter
Residence Address: Richardson, TX
Mailing Address: 3007 Wyndham Lane, Richardson, TX 75082
Citizenship: USA

Signature: _____ Date: _____

Full name of Additional Joint Inventor: Charles W. Brown
Residence Address: Plano, TX
Mailing Address: 1412 Calhoun Lane, Plano, TX 75025
Citizenship: USA

Signature: _____ Date: _____

Full name of Additional Joint Inventor: Firouzeh Rahimzadeh
Residence Address: Plano, TX
Mailing Address: 8700 Mandevilla Drive, Plano, TX 75024
Citizenship: USA

Signature: _____ Date: _____

Full name of Additional Joint Inventor: Neil A. Rogers
Residence Address: Carrollton, TX
Mailing Address: 1641 San Francisco Street, Carrollton, TX 75007-5049
Citizenship: USA

Signature: _____ Date: _____

Full name of Additional Joint Inventor: Joseph A. McLaughlin
Residence Address: Colorado Springs, CO
Mailing Address: 7153 Purple Thistle Court, Colorado Springs, CO 80922
Citizenship: USA

Signature: _____ Date: _____

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned:

- I. have sold, assigned and transferred, and by the presents do hereby sell, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire worldwide right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

NETWORK AUDITING TOOL

☒ which has been executed by the undersigned concurrently herewith, and in which case I/we hereby authorize and request the Assignee, its successors, assigns and/or legal representatives, to insert here in the parentheses (Application Number 13/348,258, filed January 11, 2012) the filing date and application number of said application when known.

☐ which was filed on _____ and assigned Application No. _____

and in and to said application, and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements or based on or claiming priority to said application; and in and to all original and reissued patents which have been or shall be issued in the United States and foreign countries from any of said applications, and in and to all rights of priority resulting from the filing of any of said applications; and in and to all rights which may exist under the International Convention for the Protection of Industrial Property to any of the foregoing;

- II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all Letters Patent on said improvements, in said Assignee, its successors and assigns; and
- III. covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein identified has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below:

Verizon entity (Assignee): Verizon Patent and Licensing Inc., having a place of business at One Verizon Way, Basking Ridge, New Jersey 07920.

ASSIGNORS:

Signature: _____ Date: _____
Jae S. Lee

Signature: _____ Date: _____
Elaine Van Horn

PATENT

REEL: 027517 FRAME: 0397

Verizon Invention Assignment
for Verizon Reference No.: 20110649

Page 2 of 2

Signature: 

Doug L. Wekamp

Date: 1/5/2012

Signature: _____

Joseph Reiter

Date: _____

Signature: _____

Charles W. Brown

Date: _____

Signature: _____

Firouzeh Rahimzadeh

Date: _____

Signature: _____

Neil A. Rogers

Date: _____

Signature: _____

Joseph A. McLaughlin

Date: _____

PATENT

REEL: 027517 FRAME: 0398

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned:

- I. have sold, assigned and transferred, and by the presents do hereby sell, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire worldwide right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

NETWORK AUDITING TOOL

☒ which has been executed by the undersigned concurrently herewith, and in which case I/we hereby authorize and request the Assignee, its successors, assigns and/or legal representatives, to insert here in the parentheses (Application Number 13/348,258, filed January 11, 2012) the filing date and application number of said application when known.

☐ which was filed on _____ and assigned Application No. _____

and in and to said application, and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements or based on or claiming priority to said application; and in and to all original and reissued patents which have been or shall be issued in the United States and foreign countries from any of said applications, and in and to all rights of priority resulting from the filing of any of said applications; and in and to all rights which may exist under the International Convention for the Protection of Industrial Property to any of the foregoing;

- II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all Letters Patent on said improvements, in said Assignee, its successors and assigns; and

- III. covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein identified has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below:

Verizon entity (Assignee): Verizon Patent and Licensing Inc., having a place of business at One Verizon Way, Basking Ridge, New Jersey 07920.

ASSIGNORS:

Signature: _____ Date: _____
Jae S. Lee

Signature: _____ Date: _____
Elaine Van Horn

Signature: _____
Doug L. Wekamp

Date: _____

Signature: Joseph Reiter
Joseph Reiter

Date: 1/5/12

Signature: _____
Charles W. Brown

Date: _____

Signature: _____
Firouzeh Rahimzadeh

Date: _____

Signature: _____
Neil A. Rogers

Date: _____

Signature: _____
Joseph A. McLaughlin

Date: _____

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned:

- I. have sold, assigned and transferred, and by the presents do hereby sell, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire worldwide right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

NETWORK AUDITING TOOL

☒ which has been executed by the undersigned concurrently herewith, and in which case I/we hereby authorize and request the Assignee, its successors, assigns and/or legal representatives, to insert here in the parentheses (Application Number 13/348,258, filed January 11, 2012) the filing date and application number of said application when known.

☐ which was filed on _____ and assigned Application No. _____

and in and to said application, and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements or based on or claiming priority to said application; and in and to all original and reissued patents which have been or shall be issued in the United States and foreign countries from any of said applications, and in and to all rights of priority resulting from the filing of any of said applications; and in and to all rights which may exist under the International Convention for the Protection of Industrial Property to any of the foregoing;

- II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all Letters Patent on said improvements, in said Assignee, its successors and assigns; and
- III. covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein identified has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below:

Verizon entity (Assignee): Verizon Patent and Licensing Inc., having a place of business at One Verizon Way, Basking Ridge, New Jersey 07920.

ASSIGNORS:

Signature: _____
Jae S. Lee

Date: _____

Signature: _____
Elaine Van Horn

Date: _____

Signature: _____
Doug L. Wekamp

Date: _____

Signature: _____
Joseph Reiter

Date: _____

Signature: Charles W Brown
Charles W. Brown

Date: Jan 10, 2012

Signature: _____
Firouzeh Rahimzadeh

Date: _____

Signature: _____
Neil A. Rogers

Date: _____

Signature: _____
Joseph A. McLaughlin

Date: _____

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned:

- I. have sold, assigned and transferred, and by the presents do hereby sell, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire worldwide right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

NETWORK AUDITING TOOL

☒ which has been executed by the undersigned concurrently herewith, and in which case I/we hereby authorize and request the Assignee, its successors, assigns and/or legal representatives, to insert here in the parentheses (Application Number 13/348,258, filed January 11, 2012) the filing date and application number of said application when known.

☐ which was filed on _____ and assigned Application No. _____

and in and to said application, and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements or based on or claiming priority to said application; and in and to all original and reissued patents which have been or shall be issued in the United States and foreign countries from any of said applications, and in and to all rights of priority resulting from the filing of any of said applications; and in and to all rights which may exist under the International Convention for the Protection of Industrial Property to any of the foregoing;

- II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all Letters Patent on said improvements, in said Assignee, its successors and assigns; and

- III. covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein identified has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below:

Verizon entity (Assignee): Verizon Patent and Licensing Inc., having a place of business at One Verizon Way, Basking Ridge, New Jersey 07920.

ASSIGNORS:

Signature: _____ Date: _____
Jae S. Lee

Signature: _____ Date: _____
Elaine Van Horn

Signature: _____
Doug L. Wekamp

Date: _____

Signature: _____
Joseph Reiter

Date: _____

Signature: _____
Charles W. Brown

Date: _____

Signature: _____
Firouzeh Bahirizadeh

Date: 1/6/2012

Signature: _____
Neil A. Rogers

Date: _____

Signature: _____
Joseph A. McLaughlin

Date: _____

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned:

- I. have sold, assigned and transferred, and by the presents do hereby sell, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire worldwide right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

NETWORK AUDITING TOOL

☒ which has been executed by the undersigned concurrently herewith, and in which case I/we hereby authorize and request the Assignee, its successors, assigns and/or legal representatives, to insert here in the parentheses (Application Number 13/348,258, filed January 11, 2012) the filing date and application number of said application when known.

☐ which was filed on _____ and assigned Application No. _____

and in and to said application, and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements or based on or claiming priority to said application; and in and to all original and reissued patents which have been or shall be issued in the United States and foreign countries from any of said applications, and in and to all rights of priority resulting from the filing of any of said applications; and in and to all rights which may exist under the International Convention for the Protection of Industrial Property to any of the foregoing;

- II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all Letters Patent on said improvements, in said Assignee, its successors and assigns; and

- III. covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein identified has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below:

Verizon entity (Assignee): Verizon Patent and Licensing Inc., having a place of business at One Verizon Way, Basking Ridge, New Jersey 07920.

ASSIGNORS:

Signature: _____ Date: _____
Jae S. Lee

Signature: _____ Date: _____
Elaine Van Horn

PATENT

REEL: 027517 FRAME: 0405

Signature: _____
Doug L. Wekamp

Date: _____

Signature: _____
Joseph Reiter

Date: _____

Signature: _____
Charles W. Brown

Date: _____

Signature: _____
Firouzeh Rahimzadeh

Date: _____

Signature: _____
Neil A. Rogers

Date: 01/05/2012

Signature: _____
Joseph A. McLaughlin

Date: _____

Verizon Patent and Licensing Inc.
Basking Ridge, New Jersey 07920
United States of America

Verizon Invention Assignment
for Verizon Reference No.: 20110649
Page 1 of 2

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned:

- I. have sold, assigned and transferred, and by the presents do hereby sell, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire worldwide right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

NETWORK AUDITING TOOL

☒ which has been executed by the undersigned concurrently herewith, and in which case I/we hereby authorize and request the Assignee, its successors, assigns and/or legal representatives, to insert here in the parentheses (Application Number 13/348,258, filed January 11, 2012) the filing date and application number of said application when known.

☐ which was filed on _____ and assigned Application No. _____

and in and to said application, and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements or based on or claiming priority to said application; and in and to all original and reissued patents which have been or shall be issued in the United States and foreign countries from any of said applications, and in and to all rights of priority resulting from the filing of any of said applications; and in and to all rights which may exist under the International Convention for the Protection of Industrial Property to any of the foregoing;

- II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all Letters Patent on said improvements, in said Assignee, its successors and assigns; and
- III. covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein identified has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below:

Verizon entity (Assignee): Verizon Patent and Licensing Inc., having a place of business at One Verizon Way, Basking Ridge, New Jersey 07920.

ASSIGNORS:

Signature: _____
Jae S. Lee

Date: _____

Signature: _____
Elaine Van Horn

Date: _____

Verizon Invention Assignment
for Verizon Reference No.: 20110649
Page 2 of 2

Signature: _____ Date: _____
Doug L. Wekamp

Signature: _____ Date: _____
Joseph Reiter

Signature: _____ Date: _____
Charles W. Brown

Signature: _____ Date: _____
Firouzeh Rahimzadeh

Signature: _____ Date: _____
Neil A. Rogers

Signature: Joseph A. McLaughlin Date: 1-11-2012
Joseph A. McLaughlin