

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM331610

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
OPERA SOLUTIONS, LLC		03/04/2014	LIMITED LIABILITY COMPANY: DELAWARE
RECEIVING PARTY DATA			
Name:	SQUARE 1 BANK		
Street Address:	406 Blackwell Street		
Internal Address:	Suite 240		
City:	Durham		
State/Country:	NORTH CAROLINA		
Postal Code:	27701		
Entity Type:	CORPORATION: NORTH CAROLINA		
PROPERTY NUMBERS Total: 1			
Property Type	Number	Word Mark	
Registration Number:	4019174	MOBIUSS	
CORRESPONDENCE DATA			
Fax Number:	9193541278		
<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>			
Phone:	9193143086		
Email:	loandocsdept@square1bank.com		
Correspondent Name:	SQUARE 1 BANK		
Address Line 1:	406 Blackwell Street		
Address Line 2:	Suite 240		
Address Line 4:	Durham, NORTH CAROLINA 27701		
NAME OF SUBMITTER:	Lee Conner		
SIGNATURE:	/leeconner-tkf/		
DATE SIGNED:	02/09/2015		
Total Attachments: 13			
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INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT is entered into as of March 4, 2014 by and between **SQUARE 1 BANK** ("**Bank**") and **OPERA SOLUTIONS, LLC**, a Delaware limited liability company ("**Grantor**").

RECITALS

A. Bank has agreed to make certain advances of money and to extend certain financial accommodation to Grantor (the "**Loans**") in the amounts and manner set forth in that certain Loan and Security Agreement by and between Bank and Grantor dated of even date herewith (as the same may be amended, modified or supplemented from time to time, the "**Loan Agreement**"; capitalized terms used herein are used as defined in the Loan Agreement).

B. Extension of credit by the Bank pursuant to the Loan Agreement is subject to the condition, among others, that Grantor shall grant to Bank a security interest in certain Copyrights, Trademarks and Patents to secure the obligations of Grantor under the Loan Agreement.

C. Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement and all other agreements now existing or hereafter arising between Grantor and Bank, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure all of its present and future indebtedness, liabilities and obligations under the Loan Agreement and under any other agreement now existing or hereafter arising between Bank and Grantor, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under its Intellectual Property (including without limitation those Copyrights, Patents and Trademarks listed on Exhibits A, B and C hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions continuations, renewals, extensions and continuations-in-part thereof (exclusive of any licenses which by their terms do not permit the assignment thereof or to the extent a Lien on such assets could give any other party a legally enforceable right to terminate Grantor's right to use such asset, but only to the extent any such restriction, prohibition, requirement of consent or right to terminate is not rendered ineffective by §§ 406-409 of the Code) (collectively, "**Intellectual Property Collateral**").

Notwithstanding anything to the contrary in this Agreement, nothing in this Agreement is intended to be, or may be construed to be, an assignment of any application to register any trademark or service mark based on any intent to use filed by, or on behalf of, the Grantor ("*Intent to Use Applications*") and any Intent to Use Applications are specifically excluded from the Intellectual Property Collateral for purposes of this Agreement.

This security interest is granted in conjunction with the security interest granted to Bank under the Loan Agreement. The rights and remedies of Bank with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Bank of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Bank, of any or all other rights, powers or remedies.

Grantor represents and warrants that Exhibits A, B, and C attached hereto set forth any and all intellectual property rights of Grantor which are registered with or subject to an application filed with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

SIGNATURE PAGE FOLLOWS

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

Grantor:

Opera Solutions, LLC, a Delaware limited liability company


By 
Name Arnat Gupta
Title Chief Executive Officer

Address of Grantor:

10 Exchange Place, 11th Floor
Jersey City, New Jersey 07302

Bank:

Square 1 Bank

By 
Name TED CAVAN
Title Account Executive

Address of Bank:

406 Blackwell Street, Suite 240
Durham, NC 27701
Attn: Loan Documentation Department

[Signature Page to Intellectual Property Security Agreement]

EXHIBIT A
COPYRIGHTS

Description	Registration Number	Registration Date
N/A		

EXHIBIT B

PATENTS

Description	Registration OR Serial Number	Registration OR Filing Date
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See attached Annex I.

EXHIBIT C
TRADEMARKS

Description	Registration/ Application Number	Registration/ Application Date
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See attached Annex I.

ANNEX I

Opera Solutions Intellectual Property

Patent Applications

	<u>Country</u>	<u>Title</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Status</u>	<u>Assignee</u>
1.	US	Systems and Methods for Optimizing Marketing Investments	13/030,954	2/18/2011	Pending.	Opera Solutions, LLC
2.	PCT	Systems and Methods for Optimizing Marketing Investments	PCT/US11/25508	2/18/2011	Abandoned per Company's instructions.	Opera Solutions, LLC
3.	US	System and Method for Data Anonymization Using Hierarchical Data Clustering and Perturbation	61/659,178	6/13/2012	Expired. Filed regular U.S. application.	Opera Solutions, LLC
4.	US	System and Method for Detecting Billing Errors Using Predictive Modeling	61/659,175	6/13/2012	Expired. Filed regular U.S. application.	No Assignment recorded for provisional. Assignment has been recorded in non-provisional (see #38)
5.	US	Systems and Method for Valuation and risk Estimation of Mortgage Backed Securities	61/595,330	2/6/2012	Expired. Filed regular U.S. application (see item 6 below).	No Assignment recorded for provisional. Assignment has been recorded in non-provisional (see #6)
6.	US	Systems and Method for Valuation and Risk Estimation of Mortgage Backed Securities	13/760,710	2/6/2013	Pending.	Opera Solutions, LLC
7.	PCT	Systems and Method for Valuation and Risk Estimation of Mortgage Backed Securities	PCT/US2013/024913	2/6/2013	Pending.	Opera Solutions, LLC
8.	US	System and Method for Detecting Network Intrusions Using Statistical Models and a Generalized Likelihood Ratio Test	61/678,298	8/1/2012	Expired. Filed regular U.S. application.	No Assignment recorded for provisional. Regular US application has been filed and we are awaiting receipt of executed Assignment to record with USPTO. (see #39)
9.	US	System and Method for Matching Data Using Probabilistic Modeling Techniques	61/684,346	8/17/2012	Expired. Filed regular U.S. application.	Opera Solutions, LLC

	<u>Country</u>	<u>Title</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Status</u>	<u>Assignee</u>
10.	US	System and Method for Demand Forecasting	61/678,309	8/1/2012	Expired. Filed regular U.S. application.	No Assignment recorded for provisional. Assignment has been recorded in non-provisional (see #42)
11.	US	System and Method for Secure Document Distribution	61/683,004	8/14/2012	Expired. Filed regular U.S. application.	No Assignment recorded for provisional. Regular US application has been filed and we are awaiting receipt of executed Assignment to record with USPTO. (see #43)
12.	US	System and Method for Adjusting Distribution of Data Using Mixed Integer Programming	61/710,120	10/5/2012	Expired. Filed regular U.S. application.	Opera Solutions, LLC
13.	US	System and Method for Optimizing Collections Processing	61/756,750	1/25/2013	Expired. Filed regular U.S. application (see No. 52 below).	Opera Solutions, LLC
14.	US	System and Method for Predicting Customer Attrition Using Dynamic User Interaction Data	61/695,412	8/31/2012	Expired. Filed regular U.S. application.	Opera Solutions, LLC
15.	US	System and Method for Data Mining Using Domain-Level Context Analysis	61/748,837	1/4/2013	Expired. Filed regular U.S. application (see item 51 below).	No Assignment recorded for provisional. Regular US application has been filed and we are awaiting receipt of executed Assignment to record with USPTO. (see #51)
16.	US	System and Method for Threat Assessment	13/645,695	10/5/2012	Pending.	No Assignment has been recorded
17.	PCT	Recommender Engine for Collections Treatment Selection	PCT/US12/69172	12/12/2012	Pending..	Filed in the name of Opera Solutions, LLC. An Assignment has been recorded in the non-provisional US application. (see #18)
18.	US	Recommender Engine for Collections Treatment Selection	13/324,445	12/13/2011	Pending.	Opera Solutions, LLC
19.	US	Computer-based Method and Computer Program Product for	13/048,402	3/15/2011	Pending.	Opera Solutions, LLC

	<u>Country</u>	<u>Title</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Status</u>	<u>Assignee</u>
		Setting Floor Prices for Items Sold at Auction				
20.	PCT	Computer-based Method and Computer Program Product for Setting Floor Prices for Items Sold at Auction	PCT/US12/29280	3/15/2012	Pending.	Filed in the name of Opera Solutions, LLC. An Assignment has been recorded in the non-provisional US application. (see #19)
21.	EPC	Computer-implemented Method for Enhancing Product Sales	11751095.8	2/24/2011	Pending.	Filed in the name of Opera Solutions, LLC
22.	EPC	Computer Implemented Method for Enhancing Targeted Product Sales	11751093.3	2/24/2011	Pending.	Filed in the name of Opera Solutions, LLC
23.	US	Computer-implemented Method for Enhancing Product Sales	12/715,302	3/1/2010	Pending.	Opera Solutions, LLC
24.	US	Computer-implemented method for Enhancing Targeted Product Sales	12/715,248	3/1/2010	Pending.	Opera Solutions, LLC
25.	US	System and Method for Collections on Delinquent Financial Accounts	12/775,755	5/7/2010	Pending.	Opera Solutions, LLC
26.	US	Systems and Methods Allocating Items Among Auction Sites to Maximize Profit	13/586,504	8/15/2012	Pending.	Opera Solutions, LLC
27.	US	Method and Apparatus for Ordering Recommendations According to a Mean/Variance Tradeoff	61/693,568	8/27/2012	Expired. Filed regular U.S. application.	An Assignment for the corresponding non-provisional application has been recorded. (see #47)
28.	US	System and Method for Combining Multiple Recommender Systems	61/693,563	8/27/2012	Expired. Filed regular U.S. and PCT applications.	An Assignment for the non-provisional application has been recorded. (see #49)
29.	US	System and Method for Estimating Price Sensitivity and/or Price Aggregation for a Population having a Collection of Items	61/779,717	3/13/2013	Pending.	No Assignment has been recorded
30.	US	Network Analysis for Detecting Point of Compromise Merchant	61/778,866	3/13/2013	Pending.	Opera Solutions, LLC
31.	US	System and Method for Developing Proxy Models	61/759,682	2/1/2013	Expired. Filed regular U.S. application.	Opera Solutions, LLC
32.	US	System and Method for Grouping Medical	61,777,246	3/12/2013	Pending.	No Assignment has been recorded.

	<u>Country</u>	<u>Title</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Status</u>	<u>Assignee</u>
		Codes for Clinical Predictive Analytics				
33.	US	System and Method for Collections on Delinquent Financial Accounts	12/775,755	5/7/2010	Pending.	Opera Solutions, LLC
34.	US	Healthcare Outcome Predictor Using Medical History Categorical Data	61/783,430	3/14/2013	Pending.	Opera Solutions, LLC
35.	US	System and Method for Generating Ultimate Reason Codes for Computer Models	61/786,010	3/14/2013	Pending.	Opera Solutions, LLC
36.	US	System and Method for Generating Greedy Reason Codes for Computer Models	61/784,116	3/14/2013	Pending.	Opera Solutions, LLC
37.	US	System and Method for Data Anonymization Using Hierarchical Data Clustering and Perturbation	13/917,263	6/13/2013	Pending.	Opera Solutions, LLC
38.	US	System and Method for Detecting Billing Errors Using Predictive Modeling	13/917,308	6/13/2013	Pending.	Opera Solutions, LLC
39.	US	System and Method for Detecting Network Intrusions Using Statistical Models and a Generalized Likelihood Ratio Test	13/956,720	8/1/2013	Pending.	No Assignment has been recorded.
40.	US	System and Method for Matching Data Using Probabilistic Modeling Techniques	13/969,010	8/16/2013	Pending.	No Assignment has been recorded.
41.	PCT	System and Method for Matching Data Using Probabilistic Modeling Techniques	PCT/US13/55393	8/16/2013	Pending.	Filed in the name of Opera Solutions, LLC. An Assignment was recorded in the underlying provisional application. (see #9)
42.	US	System and Method for Demand Forecasting	13/956,732	8/1/2013	Pending.	Opera Solutions, LLC
43.	US	System and Method for Secure Document Distribution	13/966,720	8/14/2013	Pending.	No Assignment has been recorded.
44.	US	System and Method for Adjusting Distribution of Data Using Mixed Integer Programming	14/046,232	10/4/2013	Pending.	No Assignment has been recorded.
45.	US	System and Method for	14/015,198	8/30/2013	Pending.	Opera Solutions, LLC

	<u>Country</u>	<u>Title</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Status</u>	<u>Assignee</u>
		Predicting Customer Attrition Using Dynamic User Interaction Data				
46.	PCT	System and Method for Predicting Customer Attrition Using Dynamic User Interaction Data	PCT/US13/57583	8/30/2013	Pending.	Opera Solutions, LLC
47.	US	Method and Apparatus for Ordering Recommendations According to a Mean/Variance Tradeoff	14/011,467	8/27/2013	Pending.	Opera Solutions, LLC
48.	PCT	Method and Apparatus for Ordering Recommendations According to a Mean/Variance Tradeoff	PCT/US13/56882	8/27/2013	Pending.	Filed in the name of Opera Solutions, LLC. An assignment has been recorded in the non-provisional US application. (see #47)
49.	US	System and Method for Combining Multiple Recommender Systems	14/011,324	8/27/2013	Pending.	Opera Solutions, LLC
50.	PCT	System and Method for Combining Multiple Recommender Systems	PCT/US13/56860	8/27/2013	Pending.	Filed in the name of Opera Solutions, LLC. An assignment has been recorded in the non-provisional US application. (see #49)
51.	US	System and Method for Data Mining Using Domain-Level Context	14/147,988	1/6/2014	Pending.	No Assignment has been recorded.
52.	US	System and Method for Optimizing Collections Processing	14/164,794	1/27/2014	Pending.	No Assignment has been recorded.
53.	US	System and Method for Developing Proxy Models	14/171,384	2/3/2014	Pending	No Assignment has been recorded.

Registered Trademarks and Trademark Applications

<u>Country</u>	<u>Mark</u>	<u>Application / Registration No.</u>	<u>Filing Date</u>	<u>Registration Date</u>	<u>Status/Next Action</u>
US	MOBIUSS	App. No. 85/234,191 Reg. No. 4,019,174	2/4/2011	8/30/2011	Registered.
India	MOBIUSS	App. No. 2185615	8/4/2011		Filed.
Russian Federation	MOBIUSS	App. No. 2011725039	8/4/2011		Pending.
Canada	MOBIUSS	App. No. 1,538,352 Reg. No. 828,980	8/4/2011	8/1/2012	Registered.
Israel	MOBIUSS	App. No. 239689	8/4/2011		Filed.
India	OPERA SOLUTIONS	App. No. 2201852	9/8/2011		Filed.
Israel	OPERA SOLUTIONS	App. No. 240346 Reg. No. 240346	9/1/2011	N/A; registration effective for 10 years from date of application.	Registered.
Community Trademark	OPERA SOLUTIONS	App. No. 10238152	9/2/2011		Opposition pending.

Unregistered Trademarks

OPERA SOLUTIONS
 OPERA SOLUTIONS GOVERNMENT SERVICES (OSGS)
 VEKTOR BIG DATA ANALYTICS PLATFORM
 THE VIEWER
 THE LOADER
 THE VIRTCHOPPER
 XLAP
 SPEND INTELLIGENCE PLATFORM
 SIP
 BIQ
 SIGNAL HUB
 SIGNAL HUB SUITE
 SIGNAL APP
 SIGNAL PRODUCT
 SIGNALYTICS
 CUSTOMER SIGNAL HUB
 CONSUMER SIGNAL HUB
 SIGNAL HUB SUITE
 SIGNALSENSOR
 SIGNALSENSOR THREAT INTELLIGENCE PLATFORM
 SIGNALSCOPE
 HOSPITAL OPTIMIZER SUITE
 HOSPITAL BILLING OPTIMIZER
 HOSPITAL STAFFING OPTIMIZER

HOSPITAL SPENDING OPTIMIZER
HOSPITAL COLLECTIONS OPTIMIZER
REVENUE LEAKAGE PLATFORM
HOSPITAL REVENUE LEAKAGE PLATFORM
COLLECTIONS RECOMMENDER ENGINE
SECURE COMMUNITIES OF INTEREST (SCOI)
IMMEDIATE INSIGHTS & INTELLIGENCE (I3)
SOPHIA ANALYTICS PLATFORM
OPEN SOURCE SIGNAL DETECTION (OSSD) PLATFORM
SIGNALCENTRAL (OPERA SOLUTIONS BLOG)
EIQ
CIQ
ASSET COMMANDER
TENSOR ANALYTICS EXPLORATION PLATFORM

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