## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5060618

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
SEQUENCE:	1

### **CONVEYING PARTY DATA**

Name	Execution Date
SKYHIGH NETWORKS, LLC	04/10/2018

### **RECEIVING PARTY DATA**

Name:	MORGAN STANLEY SENIOR FUNDING, INC.
Street Address:	1300 THAMES STREET
Internal Address:	4TH FLOOR
City:	BALTIMORE
State/Country:	MARYLAND
Postal Code:	21231

### **PROPERTY NUMBERS Total: 32**

Property Type	Number
Patent Number:	D748126
Patent Number:	9137131
Patent Number:	9800681
Patent Number:	9582780
Patent Number:	9571516
Patent Number:	9825819
Patent Number:	9454673
Patent Number:	9716724
Patent Number:	9455831
Patent Number:	9413730
Patent Number:	9716696
Patent Number:	9674211
Patent Number:	9596081
Patent Number:	9679155
Patent Number:	9722895
Patent Number:	9760637
Application Number:	15403956
Application Number:	14705824

PATENT REEL: 046416 FRAME: 0225

505013870

Property Type	Number
Application Number:	14734880
Application Number:	15583534
Application Number:	14808850
Application Number:	15673237
Application Number:	14808900
Application Number:	15144335
Application Number:	15260189
Application Number:	15372640
Application Number:	15372643
Application Number:	15341463
Application Number:	15789658
Application Number:	15419874
Application Number:	15622654
Application Number:	62577093

### **CORRESPONDENCE DATA**

**Fax Number:** (800)494-7512

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.

**Phone:** 202-370-4750

**Email:** ipteam@cogencyglobal.com

Correspondent Name: JOANNA MCCALL

Address Line 1: 1025 VERMONT AVE NW, SUITE 1130

Address Line 2: COGENCY GLOBAL INC.

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	F178194 1ST LIEN
NAME OF SUBMITTER:	ALAN DELANEY
SIGNATURE:	/Alan Delaney/
DATE SIGNED:	07/20/2018

### **Total Attachments: 9**

source=Joinder - 1L Patent Security Agreement#page2.tif source=Joinder - 1L Patent Security Agreement#page3.tif source=Joinder - 1L Patent Security Agreement#page4.tif source=Joinder - 1L Patent Security Agreement#page5.tif source=Joinder - 1L Patent Security Agreement#page6.tif source=Joinder - 1L Patent Security Agreement#page7.tif source=Joinder - 1L Patent Security Agreement#page8.tif source=Joinder - 1L Patent Security Agreement#page9.tif source=Joinder - 1L Patent Security Agreement#page10.tif

### PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this "Patent Security Agreement") is entered into as of April 10, 2018, by and among SKYHIGH NETWORKS, <u>LLC</u> ("Grantor") and MORGAN STANLEY SENIOR FUNDING, INC., in its capacity as collateral agent for the Secured Parties (in such capacity, together with its successors and permitted assigns, the "Collateral Agent").

### WITNESSETH:

WHEREAS, Grantor is party to a First Lien Pledge and Security Agreement, dated as of September 29, 2017 (as it may be from time to time amended, restated, amended and restated, replaced, supplemented or otherwise modified, the "Security Agreement"), in favor of the Collateral Agent pursuant to which Grantor granted to the Secured Parties a security interest in and continuing lien on, certain intellectual property rights owned by the Grantor and pursuant to which Grantor is required to execute and deliver this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and to induce the Lenders and the Collateral Agent, for the benefit of the Secured Parties, to enter into the Credit Agreement, and to induce the Lenders to make their respective extensions of credit to the Borrower thereunder, Grantor hereby agrees with the Collateral Agent as follows:

SECTION 1. <u>Defined Terms</u>. Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the meaning given to them in the Security Agreement.

SECTION 2. Grant of Security Interest in Patent Collateral. Grantor hereby pledges and grants to the Collateral Agent for itself and the ratable benefit of the Secured Parties a continuing lien on and security interest in and to all of its right, title and interest in, to and under: (a) the Patents of Grantor listed on Schedule I attached hereto; (b) all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations thereof; (c) all rights corresponding thereto throughout the world; (d) all inventions and improvements described herein; (e) all rights to sue for past, present and future infringements thereof; (f) all licenses, claims, damages and proceeds of suit arising therefrom, and (g) all Proceeds of the foregoing, including, without limitation, licenses, royalties, income, payments, claims, damages and proceeds of suit (collectively, the "Patent Collateral").

SECTION 3. Security Agreement. The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Collateral Agent pursuant to the Security Agreement, and should not be deemed to grant a broader security interest in the Patent Collateral than what is granted by the Grantor to the Collateral Agent in the Security Agreement. Grantor hereby acknowledges and affirms that the rights and remedies of the Collateral Agent with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement (and are expressly subject to the terms and conditions thereof), the terms and provisions of which are incorporated by reference as if fully set forth herein. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

67273937\_3

SECTION 4. <u>Termination</u>. Upon the termination of the Security Agreement in accordance with its terms, the Collateral Agent shall execute, acknowledge, and deliver to Grantor an instrument in writing in recordable form releasing the collateral pledge, grant, lien and security interest in the Patent Collateral under this Patent Security Agreement.

SECTION 5. <u>Counterparts</u>. This Patent Security Agreement may be executed in any number of counterparts (and by different parties hereto on different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. Delivery of an executed counterpart of a signature page to this Patent Security Agreement by facsimile or other electronic imaging (including in .pdf format) means shall be effective as delivery of a manually executed counterpart of this Patent Security Agreement.

SECTION 6. <u>GOVERNING LAW</u>. THIS PATENT SECURITY AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.

[THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK.]

67273937\_3

IN WITNESS WHEREOF, Grantor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

SKYHIGH NETWORKS, LLC

By: Michael Berry
Title: President

[Patent Security Agreement (First Lien)]

Accepted and Agreed:

MORGAN STANLEY SENIOR FUNDING, INC.,

as Collateral Agent

Nomer lies

Title: Vice President

[Patent Security Agreement (First Lien)]

## SCHEDULE I <u>to</u> <u>PATENT SECURITY AGREEMENT</u> <u>PATENT COLLATERAL</u>

# UNITED STATES ISSUED PATENTS AND PATENT APPLICATIONS:

<u>Title</u>	Owner/Grantor	Application #	File Date	Registration #	Registration Date
DISPLAY SCREEN WITH A GRAPHICAL USER INTERFACE FOR CLOUD USAGE ANALYSIS	Skyhigh Networks, LLC	29/477,584	12/23/2013	D748126	1/26/2016
NETWORK TRAFFIC MONITORING SYSTEM AND METHOD TO REDIRECT NETWORK TRAFFIC THROUGH A NETWORK INTERMEDIARY	Skyhigh Networks, LLC	13/797,634	3/12/2013	9,137,131	9/15/2015
NETWORK TRAFFIC MONITORING SYSTEM AND METHOD TO REDIRECT NETWORK TRAFFIC THROUGH A NETWORK INTERMEDIARY	Skyhigh Networks, LLC	14/824,852	8/12/2015	9,800,681	10/24/2017
CLOUD SERVICE USAGE RISK	Skyhigh Networks,	14/166,721	1/28/2014	9,582,780	2/28/2017

ASSESSMENT	LLC				
CLOUD SERVICE USAGE MONITORING SYSTEM	Skyhigh Networks, LLC	14/536,455	11/7/2014	9,571,516	2/14/2017
CLOUD SERVICE USAGE MONITORING SYSTEM	Skyhigh Networks, LLC	15/397,581	1/3/2017	9,825,819	11/21/2017
SEARCHABLE ENCRYPTION FOR CLOUD STORAGE	Skyhigh Networks, LLC	14/536,460	11/7/2014	9,454,673	9/27/2016
CLOUD DATA LOSS PREVENTION SYSTEM	Skyhigh Networks, LLC	14/625,571	2/18/2015	9,716,724	7/25/2017
ORDER PRESERVING ENCRYPTION METHOD	Skyhigh Networks, LLC	14/490,432	9/18/2014	9,455,831	9/27/2016
ENCRYPTION IN THE CLOUD USING ENTERPRISE MANAGED KEYS	Skyhigh Networks, LLC	14/536,465	11/7/2014	9,413,730	8/9/2016
ENCRYPTION IN THE CLOUD USING ENTERPRISE MANAGED KEYS	Skyhigh Networks, LLC	15/204,601	7/7/2016	9,716,696	7/25/2017
CLOUD SERVICE USAGE RISK ASSESSMENT USING DARKNET INTELLIGENCE	Skyhigh Networks, LLC	14/618,322	2/10/2015	9,674,211	6/6/2017
ORDER PRESERVING TOKENIZATION	Skyhigh Networks, LLC	14/638,906	3/4/2015	9,596,081	3/14/2017

PREFIX SEARCH IN ENCRYPTED TEXT	Skyhigh Networks, LLC	14/738,473	6/12/2015	9,679,155	6/13/2017
VENDOR USAGE MONITORING AND VENDOR USAGE RISK ANALYSIS SYSTEM	Skyhigh Networks, LLC	14/683,898	4/10/2015	9,722,895	8/1/2017
WILDCARD SEARCH IN ENCRYPTED TEXT USING ORDER PRESERVING ENCRYPTION	Skyhigh Networks, LLC	14/852,029	9/11/2015	9,760,637	9/12/2017
CLOUD SERVICE USAGE RISK ASSESSMENT	Skyhigh Networks, LLC	15/403,956	1/11/2017	N/A	N/A
ENTERPRISE CLOUD ACCESS CONTROL AND NETWORK ACCESS CONTROL POLICY USING RISK BASED BLOCKING	Skyhigh Networks, LLC	14/705,824	5/6/2015	N/A	N/A
WILDCARD SEARCH IN ENCRYPTED TEXT	Skyhigh Networks, LLC	14/734,880	6/9/2015	N/A	N/A
PREFIX SEARCH IN ENCRYPTED TEXT	Skyhigh Networks, LLC	15/583,534	5/1/2017	N/A	N/A
WILDCARD SEARCH IN ENCRYPTED TEXT	Skyhigh Networks, LLC	14/808,850	7/24/2015	N/A	N/A
WILDCARD SEARCH IN ENCRYPTED TEXT USING ORDER PRESERVING	Skyhigh Networks, LLC	15/673,237	8/9/2017	N/A	N/A

ENCRYPTION					
SEARCHABLE ENCRYPTION ENABLING ENCRYPTED SEARCH BASED ON DOCUMENT TYPE	Skyhigh Networks, LLC	14/808,900	7/24/2015	N/A	N/A
CLOUD SERVICE USAGE RISK ANALYSIS BASED ON USER LOCATION	Skyhigh Networks, LLC	15/144,335	5/2/2016	N/A	N/A
CLOUD ACTIVITY THREAT DETECTION FOR SPARSE AND LIMITED USER BEHAVIOR DATA	Skyhigh Networks, LLC	15/260,189	9/8/2016	N/A	N/A
CLOUD BASED DATA LOSS PREVENTION SYSTEM	Skyhigh Networks, LLC	15/372,640	12/8/2016	N/A	N/A
CLOUD BASED DATA LOSS PREVENTION SYSTEM USING GRAPHICAL PROCESSING UNITS FOR INDEX FILTERING	Skyhigh Networks, LLC	15/372,643	12/8/2016	N/A	N/A
CLOUD SECURITY POLICY ENFORCEMENT FOR CUSTOM WEB APPLICATIONS	Skyhigh Networks, LLC	15/341,463	11/2/2016	N/A	N/A
CLOUD SECURITY SYSTEM IMPLEMENTING SERVICE ACTION CATEGORIZATION	Skyhigh Networks, LLC	15/789,658	10/20/2017	N/A	N/A
CLOUD SERVICE ACCOUNT MANAGEMENT	Skyhigh Networks, LLC	15/419,874	1/30/2017	N/A	N/A

Skyhigh Networks, 62/577,093 10/25/2017 N/A LLC  Skyhigh Networks, 15/403956 1/11/2017 N/A	PROTECTING ENTERPRISES FROM ATTACKS ON CLOUD STORAGE SYSTEMS  CLOUD SERVICE USAGE RISK
Skyhigh Networks, 15/622,654 6/14/2017 N/A	CLOUD SERVICE ACCOUNT

**RECORDED: 07/20/2018**