

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM474309

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Flash Networks Ltd.		05/13/2018	Company: ISRAEL
RECEIVING PARTY DATA			
Name:	Mizrahi Tefahot Bank, Ltd		
Street Address:	7 Jabotinsky St.		
City:	Ramat Gan		
State/Country:	ISRAEL		
Entity Type:	Company: ISRAEL		
PROPERTY NUMBERS Total: 5			
Property Type	Number	Word Mark	
Registration Number:	4902012	FLASH NETWORKS	
Registration Number:	4369143	MOBIXELL EVO	
Registration Number:	4685315	SMOOTH DBRA	
Registration Number:	4713013	TCP BOOST	
Registration Number:	5428862	XTRAAIR	
CORRESPONDENCE DATA			
Fax Number:	7708040900		
<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:	7707090080		
Email:	gsmith@srtslaw.com		
Correspondent Name:	Smith Tempel Blaha LLC		
Address Line 1:	50 Glenlake Pkwy		
Address Line 2:	Suite 340		
Address Line 4:	Atlanta, GEORGIA 30328		
NAME OF SUBMITTER:	Gregory Scott Smith		
SIGNATURE:	/Gregory Scott Smith/		
DATE SIGNED:	05/16/2018		
Total Attachments: 8			
source=06001.3030 Executed US IP Security Agreement (FN)#page1.tif			
source=06001.3030 Executed US IP Security Agreement (FN)#page2.tif			

OP \$140.00 4902012

source=06001.3030 Executed US IP Security Agreement (FN)#page3.tif
source=06001.3030 Executed US IP Security Agreement (FN)#page4.tif
source=06001.3030 Executed US IP Security Agreement (FN)#page5.tif
source=06001.3030 Executed US IP Security Agreement (FN)#page6.tif
source=06001.3030 Executed US IP Security Agreement (FN)#page7.tif
source=06001.3030 Executed US IP Security Agreement (FN)#page8.tif

U.S. INTELLECTUAL PROPERTY UNLIMITED SECURITY AGREEMENT

This U.S. INTELLECTUAL PROPERTY SECURITY AGREEMENT ("**IP Security Agreement**") dated May 13, 2018, is made by and between (i) Flash Networks Ltd., a company incorporated in Israel under registered number 512223975 whose registered office is at 7 Sapir Street, Herzliya, Israel ("**Grantor**"), and (ii) Mizrahi Tefahot Bank, Ltd., a company incorporated in Israel under registered number 520000522 whose registered office is at 7 Jabotinsky St., Ramat Gan, Israel ("**Lender**", which expression shall include their respective successors and assigns).

WHEREAS, Lender and Grantor have entered, on May 13, 2018, into that certain Credit Facility Agreement (the "**Loan Agreement**"), and into that certain fixed and floating debenture (the "**Charge Agreement**"); and

WHEREAS, the Grantor and Lender have previously entered into, and may in the future enter into, additional agreements for the provision of bank services ("**Bank Agreements**"); and

WHEREAS, under the terms of the Charge Agreement, Grantor has agreed, among other things, to grant a first priority floating charge over the intellectual property of Grantor to Lender, and Grantor has agreed, among other things, to grant a first priority fixed charge over certain specific intellectual property of Grantor to Lender, and the Grantor has agreed as a condition thereof and in addition to the creation of the charges pursuant to the Charge Agreements, to execute this IP Security Agreement for recording such pledge with the U.S. Patent and Trademark Office, on any intellectual property owned by it throughout the term of this IP Security Agreement.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound hereby, the parties agree as follows:

Section 1. Grant of Security. Subject to the provisions of the Charge Agreement, Grantor hereby grants to Lender an unlimited security interest in and to all right, title and interest to:

(i) the registered United States patents and pending applications as set forth in Schedule A hereto, together with all reissues, divisions, continuations, continuations-in-part, extensions and reexaminations thereof, and all rights therein provided by international treaties or conventions (the "**Patents**"),

(ii) the registered United States trademarks, service marks, trade names and domain names, and applications therefore as set forth in Schedule A hereto together with all goodwill associated with such trademarks and service marks and all rights therein provided by international treaties or conventions (the "**Trademarks**"); provided, however, that notwithstanding anything herein to the contrary, in no event shall the foregoing include nor the security interest granted hereunder attach to any "intent-to-use" application for registration of a trademark filed pursuant to Section 1(b) of the Lanham Act, 15 U.S.C. § 1051, prior to the filing of a "Statement of Use" pursuant to Section 1(d) of the Lanham Act or an "Amendment to Allege Use" pursuant to Section 1(c) of the Lanham Act, solely to the extent, if any, and solely during the period, if any, in which the grant of a security interest therein would void said application or impair the validity or enforceability of any registration issuing therefrom (collectively, "**Trademarks**"); and

(iii) all copyrights and registrations and applications therefore (the "**Copyrights**"), all as currently owned by the Grantor or which shall be owned in the future by the Grantor (the "**Collateral**"). Schedule A shall be updated pursuant to the provisions of the Loan Agreement upon the application for, or acquisition of, any new Patents or Trademarks in the United States by the Grantor and/or the application for, or acquisition of, any new Copyrights (whether registered or not), and the Grantor shall file amendments to Schedule A to that effect pursuant to said subsection of the Loan Agreement. For the avoidance of doubt, Grantor shall not be under any obligation to register any Copyrights.

Flash Networks LTD

TRADEMARK

REEL: 006385 FRAME: 0850

Section 2. Security for Obligations. The grant of an unlimited security interest in the Collateral by Grantor to Lender under this IP Security Agreement secures the performance of all obligations and the payment of all money and liabilities owed or incurred by Grantor to Lender, now or hereafter existing under or in respect of the Loan Agreement, the Bank Agreements, and the Charge Agreement, or under any other future financing arrangement between the Grantor and the Lender (the "Secured Obligations").

Section 3. Recordation. Grantor authorizes and requests that the Commissioner of Patents and Trademarks and/or the Register of Copyrights, record this IP Security Agreement. Grantor hereby further undertakes to file the appropriate request to the Commissioner of Patents and Trademarks, in order to record this IP Security Agreement, within 21 days following the execution of this Agreement.

Section 4. Right to Request Information. Lenders shall have the right to request, once every six (6) calendar months, and Grantor shall promptly provide upon such request, information reasonably required in order to confirm that Schedule A is updated.

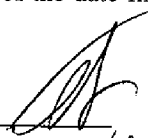
Section 5. Grants, Rights and Remedies. This IP Security Agreement has been entered into in conjunction with the provisions of the Loan Agreement and the Charge Agreement. The Grantor does hereby acknowledge and confirm that the grant of the security interest hereunder to, and the rights and remedies of, Lender with respect to the Collateral are more fully set forth in the Loan Agreement, the Bank Agreements and/or the Charge Agreement and in the event of any contradiction between this IP Security Agreement and the Loan Agreement or the Charge Agreements, the provisions of the Loan Agreement or the Charge Agreements will prevail.

Section 6. Governing Law; Forum for Dispute Resolution. This Agreement shall be governed by and construed according to the laws of the State of Israel, without regard to the conflict of laws provisions thereof. Any dispute arising under or in relation to this Agreement shall be resolved in the competent court for the Tel Aviv-Jaffa district, and each of the parties hereby submits exclusively and irrevocably to the jurisdiction of such court. This Section 6 is for the benefit of the Lender only. As a result, the Lender shall not be prevented from taking proceedings relating to the Collateral in any other courts with jurisdiction.

Section 7. Termination. This IP Security Agreement and the security interest granted hereunder to Lender shall terminate and be of no force with respect to the Lender upon satisfaction in full of all of the Secured Obligations of Grantor to the Lender. Upon termination of this IP Security Agreement and the security interest granted to the Lender hereunder, the Lender shall execute all documents necessary to remove the security interest granted to the Lender by Grantor hereunder and take any action necessary to remove the security interest granted by Grantor hereunder, including without limitation, the filing of a Termination Statement in the USPTO for the affected Patents and Trademarks.

IN WITNESS WHEREOF, Grantor and the Lender have caused this IP Security Agreement to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

FLASH NETWORKS LTD.

By: _____ 

Name: TOMER ITAY *ofer Gattler*

Title: CFO CFO

~~Flash Networks LTD~~

MIZRAHI TEFAHOT BANK, LTD.

By: _____
Name: _____
Title: _____

[Handwritten signature]

[Handwritten signature]
Dani Maor
Hi-Tech Dpt Manager

Guy Ofer Hirshler

Flash Networks Ltd
[Handwritten mark]

TRADEMARK

REEL: 006385 FRAME: 0852

SCHEDULE A

Patents:

Patents and Patent Applications:

<u>Ref. No.</u>	<u>Issue date</u>	<u>Title</u>	<u>Status</u>	<u>Next step</u>	<u>Expiry Date</u>
FN-03 US US 8,291,007	Oct 16, 2012	SYSTEM AND METHOD TO ACCELERATE CLIENT/SERVER INTERACTIONS USING PREDICTIVE REQUESTS	Granted Patent	Fees on: March 16, 2019 March 16, 2024	Feb 21, 2021
FN-06-US US 7,423,972	Sep 9, 2008	SYSTEM AND METHOD FOR A TRANSMISSION RATE CONTROLLER	Granted Patent	Maintenance fees: March 9, 2020	Nov 28, 2021
FN-07-US US 7,007,113	Feb 28, 2006	SYSTEM AND METHOD FOR DATA RE-COMPRESSION FOR COMMUNICATION OVER IP	Granted Patent		Jan 21, 2022
FN-08-US US 7,739,384	Jun 15, 2010	SYSTEM AND METHOD FOR LOAD BALANCING	Granted Patent	Fees on: Dec 15, 2021	Dec 13, 2021
FN-09-US US 7,398,314	Jul 8, 2008	SYSTEM AND A METHOD FOR ACCELERATING COMMUNICATION OF TCP/IP BASED CONTENT THROUGH THE USE OF FAKE HOST NAMES	Granted Patent	Maintenance fees: Jan 8, 2020	Aug 8, 2022
FN-09-CON US 8,176,183	May 8, 2012	SYSTEM AND A METHOD FOR ACCELERATING COMMUNICATION OF TCP/IP BASED CONTENT	Granted Patent	Fees on: Sep 11, 2019 Sep 11, 2023	Jun 9, 2028
FN-10-US US 7,447,745	Nov 4, 2008	SYSTEM AND A METHOD FOR ACCELERATING COMMUNICATION BETWEEN A CLIENT AND AN EMAIL SERVER	Granted Patent	Maintenance fees: May 4, 2020	Jan 5, 2023
FN-11-US US 7,680,102	Mar 16, 2010	METHOD AND SYSTEM FOR CONNECTING MANIPULATION EQUIPMENT BETWEEN OPERATOR'S PREMISES AND THE INTERNET	Granted Patent	Fees on: Sep 16, 2021	Jun 11, 2023
FN-12-US US 7,542,476	Jun 2, 2009	METHOD AND SYSTEM FOR MANIPULATING IP PACKETS IN VIRTUAL PRIVATE NETWORKS	Granted Patent	Fees on: Dec 2, 2020	Aug 27, 2024
FN-13-US US 7,984,163	Jul 19, 2011	METHOD AND SYSTEM FOR OPTIMIZING DNS QUERIES	Granted Patent	Fees on: Jan 19, 2019 Jan 19, 2023	Jan 11, 2026
FN-14-US US 8,156,429	Apr 10, 2012	METHOD AND SYSTEM FOR ACCELERATING DOWNLOADING OF WEB PAGES	Granted Patent	Fees on: Oct 10, 2019 Oct 10, 2023	Oct 17, 2025
FN-15-US US 8,069,406	Nov 29, 2011	METHOD AND SYSTEM FOR IMPROVING USER EXPERIENCE WHILE BROWSING	Granted Patent	Fees on: May 29, 2019 May 29, 2023	Feb 8, 2026
FN-17-US US 8,606,876	Dec 10, 2013	METHOD AND SYSTEM FOR ACCELERATING DATA COMMUNICATION THAT IS USING MULTIPART	Granted Patent	Maintenance fees: Jun 10, 2021 Jun 10, 2025	Jun 27, 2028
FN-18-US US 9,336,323	May 10, 2016	METHOD AND SYSTEM FOR ACCELERATING SURFING THE INTERNET	Granted Patent	Maintenance fees: Nov 10, 2019 Nov 10, 2023 Nov 10, 2027	Jul 26, 2027
FN-19-US US 8,214,827	Jul 3, 2012	METHOD AND SYSTEM FOR IMPROVING USER CONFIDENCE AND EXPERIENCE IN CONTENT PURCHASING VIA A SERVICE PROVIDER PREMISES	Granted Patent	Maintenance fees: Jan 3, 2020 Jan 3, 2024	Nov 28, 2026.

Flash Networks LTD

TRADEMARK 

REEL: 006385 FRAME: 0853

Ref. No.	Issue date	Title	Status	Next step.	Expiry Date
FN-20-US US 8,166,198	Apr 24, 2012	METHOD AND SYSTEM FOR ACCELERATING BROWSING SESSIONS	Granted Patent	Maintenance fees: Oct 25, 2019 Oct 25, 2023	Mar 15, 2027
FN-21-US US 8,819,111	Aug 26, 2014	METHOD AND SYSTEM FOR NOTIFYING AN ADDRESSEE OF A COMMUNICATION SESSION	Granted Patent	Maintenance fees: Feb 26, 2022 Feb 26, 2026	Apr 14, 2028
FN-22-US US 9,602,613	Mar 21, 2017	METHOD AND SYSTEM FOR ACCELERATING BROWSING SESSIONS	Granted Patent	Fees on: Sep 21, 2020 Sep 21, 2024 Sep 21, 2028	Sep 26, 2028
FN-23-US US 8,370,737	Feb 5, 2013	METHOD AND SYSTEM FOR INSERTING DATA IN A WEB PAGE THAT IS TRANSMITTED TO A HANDHELD DEVICE	Granted Patent	Maintenance fees: Aug 5, 2020 Aug 5, 2024	Dec 17, 2029
FN-23-US-CON US 9,152,615	Oct 6, 2015	METHOD AND SYSTEM FOR INSERTING DATA IN A WEB PAGE THAT IS TRANSMITTED TO A HANDHELD DEVICE	Granted Patent	Maintenance fees: Apr 6, 2021 Apr 6, 2026	Dec 17, 2029
FN-24-US US 8,886,805	Nov 11, 2014	METHOD AND SYSTEM FOR DYNAMICALLY ALLOCATING SERVICES FOR SUBSCRIBERS DATA TRAFFIC	Granted Patent	Maintenance fees: May 11, 2022 May 11, 2026	Nov 15, 2030
FN-24-CON US 9,071,505	Jun 30, 2015	METHOD AND SYSTEM FOR DYNAMICALLY ALLOCATING SERVICES FOR SUBSCRIBERS DATA TRAFFIC	Granted Patent	Maintenance fees: Dec 30, 2018 Dec 30, 2022 Dec 30, 2026	Oct 7, 2034
FN-25-US US 9,613,142	Apr 4, 2017	METHOD AND SYSTEM FOR PROVIDING THE DOWNLOAD OF TRANSCODED FILES	Granted Patent	Maintenance fees: Oct 4, 2020 Oct 4, 2024 Oct 4, 2028	Apr 13, 2031
FN-27-US US 9,699,103	Jul 4, 2017	METHOD AND SYSTEM FOR FLOW CONTROLLING	Granted Patent	Maintenance fees: Jan 4, 2021 Jan 4, 2025 Jan 4, 2029	Sep 5, 2032
FN-28-US US 9,665,646	May 30, 2017	METHOD AND SYSTEM FOR PROVIDING BIT RATE ADAPTAION TO VIDEO FILES HAVING METADATA	Granted Patent	Fees on: Nov 30, 2020 Nov 30, 2024 Nov 30, 2028	Aug 8, 2033
ADJ-01-US US 8,086,855	Dec 27, 2011	ACCESS TO PLMN NETWORKS FOR NON-PLMN DEVICES, AND TO ISSUES ARISING IN INTERFACES IN GENERAL BETWEEN PLMN AND NON-PLMN NETWORKS	Granted Patent	Maintenance fees: Jun 27, 2019 Jun 27, 2023	May 16, 2022

Flash Networks LTD

TRADEMARK 
REEL: 006385 FRAME: 0854

<u>Ref. No.</u>	<u>Issue date</u>	<u>Title</u>	<u>Status</u>	<u>Next step</u>	<u>Expiry Date</u>
FN-28-US US 7,653,200	Jan 26, 2010	ACCESSING CELLULAR NETWORKS FROM NON-NATIVE LOCAL NETWORKS	Granted Patent	Fees on: Jul 26, 2021	Mar 13, 2023
ZFLASH-001 US US 7,873,705	Jan 18, 2011	SYSTEM AND METHOD FOR IDENTIFYING CONTENT SERVICE WITHIN CONTENT SERVER	Granted Patent	Fees on: Jul 17, 2022	Mar 12, 2024
ZFLASH-002 US US 7,995,506	Aug 9, 2011	INTEGRATING INFORMATION SERVICES THROUGH CELLULAR NETWORK	Granted Patent	No fees in 2018.	Mar 22, 2025
ZFLASH-003 US US 8,972,518	Mar 3, 2015	INTEGRATED DATA-MODEL AND FLOW BASED POLICY SYSTEM	Granted Patent	Fees on: Sep 3, 2018	Sep 20, 2027
ZFLASH-004 US US 8,869,030	Oct 21, 2014	HIERARCHICAL REPRESENTATION OF CONTEXTUAL INFORMATION	Granted Patent	Fees on: Apr 21, 2018	Sep 20, 2027
ZFLASH-005 US US 8,856,658	Oct 7, 2014	REPRESENTING USER INTERACTIONS AS A SYNCHRONOUS ACTION IN A BUSINESS PROCESS FLOW	Granted Patent	Fees on: Apr 7, 2018	Sep 20, 2027
06727/0207701-US0 Kligler MOB-05-US US 8,073,275	Dec 6, 2011	IMAGE ADAPTATION WITH TARGET SIZE, QUALITY AND RESOLUTION CONSTRAINS	Granted Patent		Feb 5, 2026
1451-US Swirsky MOB-06-US US 8,819,143	Aug 26, 2014	PRESENTATION LAYER ADAPTATION IN MULTIMEDIA MESSAGING	Granted Patent		May 31, 2026
06727/0210203-US0 Kligler MOB-07-US US 8,145,656	Mar 27, 2012	MATCHING OF MODIFIED VISUAL AND AUDIO MEDIA	Granted Patent		Feb 4, 2027
NAPMXL-018-US Naomi Assia MOB-10-US US 8,467,457	Jun 18, 2013	SYSTEM AND METHOD FOR CONTROLLING ONE OR MORE SIGNAL SEQUENCES CHARACTERISTICS	Granted Patent		Jan 15, 2028
1039-1009.1 Kligler MOB-13-US US 8,527,649	Sep 3, 2013	MULTI-STREAM BIT RATE ADAPTATION	Granted Patent	Fees on: Mar 3, 2021 Mar 3, 2025	
1039-1011 Kligler MOB-14-US US 8,832,709	Sep 9, 2014	METHODS FOR MOBILE NETWORK OPTIMIZATION	Granted Patent	Fees on: Mar 9, 2022 Mar 9, 2026	Jul 18, 2031
1039-1012.1 Kligler MOB-15-US US 8,688,074	Apr 1, 2014	SERVICE CLASSIFICATION OF WEB TRAFFIC	Granted Patent		Feb 26, 2032
1039-1012.2 Kligler MOB-15-CON US 9,042,863	May 26, 2015	SERVICE CLASSIFICATION OF WEB TRAFFIC	Granted Patent		Feb 13, 2034
724S1100 Sprinkle MOB-18-US US 7,430,740	Sep 30, 2008	PROCESS GROUP RESOURCE MANAGER	Granted Patent		Apr 12, 2022

Flash Networks LLC

TRADEMARK

REEL: 006385 FRAME: 0855

<u>Ref. No.</u>	<u>Issue date</u>	<u>Title</u>	<u>Status</u>	<u>Next step.</u>	<u>Expiry Date</u>
724S1120-1 Sprinkle MOB-20-US US 8,078,153	Dec 13, 2011	SYSTEM AND METHOD FOR DYNAMIC PROVISIONING OF CONTEXTUAL BASED IDENTITY	Granted Patent		Apr 27, 2027
724S1130-1 Sprinkle MOB-21-US US 7,805,532	Sep 28, 2010	PLATFORM FOR INTEROPERABILITY	Granted Patent		Apr 27, 2027
724S1130-2 Sprinkle MOB-22-US US 8,327,024	Dec 4, 2012	SYSTEM AND METHOD FOR SMS/IP INTEROPERABILITY	Granted Patent		Nov 9, 2027
724S1470 Sprinkle MOB-36-US US 8,886,748	Nov 11, 2014	CONTENT CAPTURE SYSTEM AND METHOD	Granted Patent	Fees on: May 11, 2018	Mar 1, 2031
06727/0208248-US0 MOB-36-US Sanford Kligler 1039/1029 US 9,247,259	Jan 26, 2016	CONTROL OF VIDEO COMPRESSION BASED ON FILE SIZE CONSTRAINT	Granted Patent	Fees on: Jul 26, 2018	Oct 10, 2027
FN-29-US US14/852,682	Sep 14, 2015	METHOD AND SYSTEM FOR IMPLEMENTING IPV4 OR IPV6 IN A PROXY	Application	Waiting	
FN-30-US US 15/598,305	Nov 30, 2017	METHOD AND SYSTEM FOR UPLOAD OPTIMIZATION	Application	Waiting	
FN-31-US US 15/141,971	Apr 29, 2016	METHOD AND SYSTEM FOR BITRATE MANAGEMENT	Application	Waiting	
FN-32 15/342,017	Nov 2, 2016	METHOD AND SYSTEM FOR SIGNALING OPTIMIZATION OF IP CONNECTION OVER A MOBILE-RADIO NETWORK	Application	Waiting	
FN-33-US 15/902,654	Feb 22, 2018	METHOD AND SYSTEM FOR SIGNALING AND RADIO CONNECTION OPTIMIZATION OVER A CELLULAR NETWORK	Application	Waiting	
FN-34-p 06001.1360 US 15/950,157	May 9, 2017	METHOD AND SYSTEM FOR INCREASING THROUGHPUT OF A TCP/IP CONNECTION	Provisional patent application	Prepare a PCT app. before May 9, 2018.	
FN-35-P 06001.1370 US 62/599,095	Dec 15, 2017	METHOD AND SYSTEM FOR IDENTIFYING A USER OVER AN INTERNET PROTOCOL CONNECTION	Provisional patent application	Prepare a PCT app. before Dec 15, 2018.	

Trademarks:

Issued Trademarks:

<u>Owner</u>	<u>Country</u>	<u>Mark</u>	<u>Appln. No./ Reg. No.</u>	<u>Filing Date/ Reg. Date</u>	<u>Class</u>
Flash Networks Ltd.	US	FLASH NETWORKS	86/742,603 4,902,012	08/31/2015 02/16/2016	9, 42

Flash Networks LTD


TRADEMARK

Flash Networks Ltd.	US	MOBIXELL EVO	85/404,322 4,369,143	08/23/2011 07/16/2013	9
Flash Networks Ltd.	US	SMOOTH DBRA	85/893,816 4,685,315	04/03/2013 02/10/2015	9
Flash Networks Ltd.	US	TCP BOOST	85/893,833 4,713,013	04/03/2013 03/31/2015	9
Flash Networks Ltd.	US	XTRAAIR	86/828,597 5,428,862	11/23/2015 03/20/2018	9, 42

Trademark Applications:

None

Copyrights:

Registered Copyrights:

None

Unregistered Copyrights:

None

Domain Names:

Flash Networks LTD


TRADEMARK