

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM393196

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
CHELSIO COMMUNICATIONS, INC.		07/29/2016	Corporation: CALIFORNIA
RECEIVING PARTY DATA			
Name:	NOVIRIAN CAPITAL		
Street Address:	101 Mission Street, Suite 2080		
City:	San Francisco		
State/Country:	CALIFORNIA		
Postal Code:	94105		
Entity Type:	Limited Liability Company: DELAWARE		
PROPERTY NUMBERS Total: 4			
Property Type	Number	Word Mark	
Registration Number:	3218510	CHELSIO COMMUNICATIONS	
Registration Number:	3197200		
Registration Number:	3218509	CHELSIO COMMUNICATIONS	
Registration Number:	3184329	CHELSIO	
CORRESPONDENCE DATA			
Fax Number:	6502334545		
	<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:	650-233-4068		
Email:	docket_ip@pillsburylaw.com, sdipdocket@pillsburylaw.com		
Correspondent Name:	Judy Yan		
Address Line 1:	2550 Hanover Street		
Address Line 4:	Palo Alto, CALIFORNIA 94304		
NAME OF SUBMITTER:	Judy Yan		
SIGNATURE:	/judy yan/		
DATE SIGNED:	07/29/2016		
Total Attachments: 10			
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INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT (this “Agreement”), dated as of July 29, 2016 (the “Effective Date”) is made by CHELSIO COMMUNICATIONS, INC. (the “Company”) for the benefit of NOVIRIAN CAPITAL in its capacity as the agent for the purchasers (“Purchasers’ Agent”) of the Convertible Promissory Note purchasers identified in Appendix I hereto (the “Purchasers”).

RECITALS

A. The Purchasers have agreed to lend the Company up to \$5,000,000 pursuant to the Convertible Promissory Notes Due January 29, 2018 issued by the Company (the “Notes”), pursuant to the terms of the Note Purchase Agreement dated the same date as this Agreement.

B. To induce the Purchasers to lend to the Company under the Notes, the Company has agreed to pledge and grant a security interest in the collateral described below as security for the Secured Obligations (as defined in that certain Security Agreement, dated the same date as this Agreement, among the Company, the Purchasers and Purchaser’s Agent).

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 the Secured Obligations, the Company hereby represents, warrants, covenants and agrees as follows:

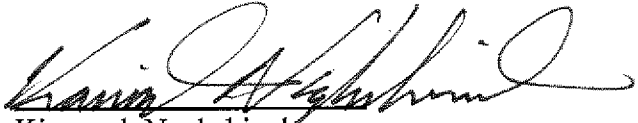
AGREEMENT

To secure the Secured Obligations, the Company hereby pledges and grants to Purchasers’ Agent, for the exclusive benefit of Purchasers’ Agent and the Purchasers as their agent, a continuing security interest in all of the Company’s right, title and interest in and to its intellectual property (including without limitation those Copyrights, Patents and Trademarks listed on Annexes A, B and C attached 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. The Company represents and warrants that Annexes A, B and C attached hereto set forth any and all intellectual property rights in connection to which the Company has registered or filed an application with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

SIGNATURE PAGE FOLLOWS

IN WITNESS WHEREOF, the Company has caused this Intellectual Property Security Agreement to be duly executed by an officer thereunto duly authorized as of the first date written above.

CHELSIO COMMUNICATIONS, INC.

By: 
Name: Kianoosh Naghshineh
Title: President and Chief Executive Officer

ANNEX A
COPYRIGHTS

NONE.

ANNEX B

PATENTS

	TITLE	INVENTORS	PATENT NUMBER
1	REDUCED- OVERHEAD DMA	Mark Stadler, Mountain View, CA (US); Asgeir Thor Eiriksson, Sunnyvale, CA (US); Kianoosh Naghshineh, Palo Alto, CA (US);	US 6813652
2	MULTI-PURPOSES SWITCHING NETWORK INTERFACE CONTROLLER	Kianoosh Naghshineh, Palo Alto, CA (US); Mark Stadler, Mountain View, CA (US); Asgeir Thor Eiriksson, Sunnyvale, CA (US)	US 7447795
3	METHOD TO IMPLEMENT AN L4 -L7 SWITCH USING SPLIT CONNECTIONS AND AN OFFLOADING NIC	Asgeir Thor Eiriksson, Sunnyvale, CA (US);Wael Nouredine, Mountain View, CA (US)	US 7616563
4	METHOD FOR TRAFFIC SCHEDULING IN INTELLIGENT NETWORK INTERFACE CIRCUITRY	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US); Chris Yuhong Mao, Fremont, CA (US)	US 7660264
5	VIRTUALIZING THE OPERATION OF INTELLIGENT NETWORK INTERFACE CIRCUITRY	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Dimitrios Michailidis, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US)	US 7660306
6	METHOD FOR UDP TRANSMIT PROTOCOL OFFLOAD PROCESSING WITH TRAFFIC MANAGEMENT	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US)	US 7715436
7	PROTOCOL OFFLOAD TRANSMIT TRAFFIC MANAGEMENT	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US); Chris Yuhong Mao, Fremont, CA (US)	US 7724658
8	FILTERING INGRES S PACKETS IN NETWORK INTERFACE CIRCUITRY	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Chris Yuhong Mao, Fremont, CA (US)	US 7760733

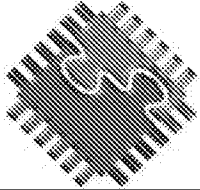
	TITLE	INVENTORS	PATENT NUMBER
9	INTELLIGENT NETWORK ADAPTOR WITH ADAPTIVE DIRECT DATA PLACEMENT SCHEME	Dimitrios Michalidis, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US); Felix A. Marti, San Francisco, CA (US); Asgeir Thor Eiriksson, Sunnyvale, CA (US)	US 77826350
10	FULL OFFLOAD OF STATEFUL CONNECTIONS WITH PARTIAL CONNECTION OFFLOAD	Wael Nouredine, Mountain View, CA (US); Asgeir Thor Eiriksson, Sunnyvale, CA (US)	US 7831720
11	S CALABLE DIRECT MEMORY ACCESS USING VALIDATION OF HOST AND SCATTER GATHER ENGINE (S GE) GENERATION INDICATIONS	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Shenze (Michael) Chen, Cupertino, CA (US); Patricio Fernando Kaplan, Palo Alto, CA (US); George E. Smith, Lancaster, PA (US)	US 7831745
12	VIRTUALIZING THE OPERATION OF INTELLIGENT NETWORK INTERFACE CIRCUITRY	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Dimitrios Michailidis, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US)	US 7924840
13	METHOD FOR USING A PROTOCOL LANGUAGE TO AVOID SEPARATE CHANNELS FOR CONTROL MESSAGES INVOLVING ENCAPSULATED PAYLOAD DATA MESSAGES	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Shenze (Michael) Chen, Cupertino, CA (US); Patricio Fernando Kaplan, Palo Alto, CA (US); George E. Smith, Lancaster, PA (US)	US 7945705
14	CONFIGURABLE SWITCHING NETWORK INTERFACE CONTROLLER USING FORWARDING ENGINE	Kianoosh Naghshineh, Palo Alto, CA (US); Mark Stadler, Mountain View, CA (US); Asgeir Thor Eiriksson, Sunnyvale, CA (US)	US 8032655
15	INTELLIGENT NETWORK ADAPTOR WITH END-TO-END FLOW CONTROL	Dimitrios Michailidis, Sunnyvale, CA(US); Wael Nouredine, Mountain View, CA (US); Felix A. Marti, San Francisco, CA (US); Asgeir Thor Eiriksson, Sunnyvale, CA (US)	US 8060644

	TITLE	INVENTORS	PATENT NUMBER
16	RDMA WRITE COMPLETION SEMANTICS	Felix A. Marti, San Francisco, CA (US)	US 8122155
17	METHOD TO IMPLEMENT AN L4-L7 SWITCH USING SPLIT CONNECTIONS AND AN OFFLOADING NIC	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US)	US 8139482
18	PROTOCOL OFFLOAD TRANSMIT TRAFFIC MANAGEMENT	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US); Chris Yuhong Mao, Fremont, CA (US)	US 8155001
19	METHOD FOR TRAFFIC SCHEDULING IN INTELLIGENT NETWORK INTERFACE CIRCUITRY	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US); Chris Yuhong Mao, Fremont, CA (US)	US 8213427
20	PROTOCOL OFFLOAD TRANSMIT TRAFFIC MANAGEMENT	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US); Chris Yuhong Mao, Fremont, CA (US)	US 8339952
21	FAILOVER AND MIGRATION FOR FULL-OFF LOAD NETWORK INTERFACE DEVICES	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US); Balekudru A. Krishna, Sunnyvale, CA (US)	US 8346919
22	INTELLIGENT NETWORK ADAPTOR WITH END-TO-END FLOW CONTROL	Dimitrios Michailidis, Sunnyvale, CA(US); Wael Nouredine, Mountain View, CA (US); Felix A. Marti, San Francisco, CA (US); Asgeir Thor Eiriksson, Sunnyvale, CA (US)	US 8356112
23	PROTOCOL OFFLOAD IN INTELLIGENT NETWORK ADAPTOR, INCLUDING APPLICATION LEVEL SIGNALING	Dimitrios Michailidis, Sunnyvale, CA(US); Wael Nouredine, Mountain View, CA (US); Felix A. Marti, San Francisco, CA (US); Asgeir Thor Eiriksson, Sunnyvale, CA (US)	US 8589587
24	INTRUSION DETECTION AND PREVENTION PROCESSING WITHIN NETWORK INTERFACE	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US); Anamaya Sullerey, Sunnyvale, CA	US 8621627

	TITLE	INVENTORS	PATENT NUMBER
	CIRCUITRY	(US)	
25	VIRTUALIZING THE OPERATION OF INTELLIGENT NETWORK INTERFACE CIRCUITRY	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Dimitrios Michailidis, Sunnyvale, CA (US); Wael Nouredine, Mountain View, CA (US)	US 686838
26	THIN PROVISIONING ROW SNAPSHOT WITH REFERENCE COUNT MAP	Atul Gupta, Bangalore, India; Umashankar Tumari Mahabalagiri, Shimoga, India; Vishnu Rangayan, Sunnyvale, CA	US 8806154
27	INTRUSION DETECTION AND PREVENTION PROCESSING WITHIN NETWORK INTERFACE CIRCUITRY	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Wael Nouredine, Santa Clara, CA (US); Anamaya Sullerey, Santa Clara, CA (US)	US 8856947
28	METHOD FOR FLOW CONTROL IN A PACKET SWITCHED NETWORK	Wael Nouredine, Mountain View, CA (US); Asgeir Thor Eiriksson, Sunnyvale, CA (US)	US 8873389
29	FAILOVER AND MIGRATION FOR FULL-OFFLOAD NETWORK INTERFACE DEVICES	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Wael Nouredine, Santa Clara, CA (US); Balekudru A. Krishna, Sunnyvale, CA (US)	US 8886821
30	NETWORK ADAPTOR CONFIGURED FOR CONNECTION ESTABLISHMENT OFFLOAD	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Chandrasekhar Srinivasaiah, Cupertino, CA (US); Wael Nouredine, Mountain View, CA (US)	US 8935406
31	FAILOVER AND MIGRATION FOR FULL-OFFLOAD NETWORK INTERFACE DEVICES	Asgeir Thor Eiriksson, Sunnyvale, CA (US); Wael Nouredine, Santa Clara, CA (US); Balekudru A. Krishna, Sunnyvale, CA (US)	US 9357003
32	METHOD FOR EFFICIENT ROUTING IN A NETWORK INTERFACE CARD	Wael Nouredine, Santa Clara, CA (US); Asgeir Thor Eiriksson, Sunnyvale, CA (US)	US 9390056
33	INTELLIGENT NETWORK ADAPTOR WITH DDP OF OUT-OF-ORDER SEGMENTS	Michailidis et al.	11/747,793

	TITLE	INVENTORS	PATENT NUMBER
34	METHOD FOR EFFICIENT TRAFFIC MANAGEMENT IN A NETWORK INTERFACE CARD	Wael Nouredine	13/196,749
35	METHOD AND APPARATUS FOR CONFIGURING AND BOOTING WITH MORE THAN ONE PROTOCOL USING SINGLE OPTION ROM BIOS CODE ON MULTI FUNCTION CONVERGED NETWORK ADAPTER	Mahendra Boopathy Ramanujam	13/631,266
36	MULTI-FUNCTION INTERCONNECT HAVING A PLURALITY OF SWITCH BUILDING BLOCKS	Wael Nouredine et al.	13/622,288
37	METHOD FOR CONGESTION CONTROL IN A NETWORK INTERFACE CARD	Wael Nouredine	14/276,947
38	A DISTRIBUTED CACHE COHERENT SHARED MEMORY CONTROLLER INTEGRATED WITH A PROTOCOL OFFLOAD NETWORK INTERFACE CARD	Asgeir Thor Eiriksson	14/454,564
39	REPLICATION IN A PROTOCOL OFFLOAD NETWORK INTERFACE CONTROLLER	Asgeir Thor Eiriksson	14/580,117
40	A METHOD FOR OUT OF ORDER PLACEMENT IN PDU-ORIENTED PROTOCOLS	Asgeir Thor Eiriksson	14/675,619
41	A METHOD TO INTEGRATE CO-PROCESSORS WITH A PROTOCOL PROCESSING PIPELINE	Eiriksson et al.	14/804,007

ANNEX C
TRADEMARKS

DESCRIPTION	REGISTRATION/APPLICATION NUMBER	REGISTRATION/APPLICATION DATE
CHELSIO COMMUNICATIONS (& design)	3,218,510	03/13/2007
	3,197,200	01/09/2007
CHELSIO COMMUNICATIONS	3,218,509	03/17/2007
CHELSIO	3,184,329	12/12/2006

APPENDIX I

LIST OF PURCHASERS

(SEE EXHIBIT A TO THE NOTE PURCHASE AGREEMENT)