PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
MORTA SECURITY INC	08/30/2016

RECEIVING PARTY DATA

Name:	PALO ALTO NETWORKS, INC.	
Street Address:	4401 GREAT AMERICA PARKWAY	
City:	SANTA CLARA	
State/Country:	CALIFORNIA	
Postal Code:	95054	

PROPERTY NUMBERS Total: 6

Property Type	Number
Patent Number:	9419985
Patent Number:	9124625
Application Number:	61705569
Application Number:	15195397
Application Number:	13914431
Application Number:	14804247

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	JONG ANDREW H. PARK	
SIGNATURE:	/Jong Andrew Park/	
DATE SIGNED:	09/02/2016	

Total Attachments: 2

PATENT REEL: 039621 FRAME: 0487

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PATENT REEL: 039621 FRAME: 0488

PATENT ASSIGNMENT

Morta Security Inc, a corporation existing and organized under the laws of Delaware, having a place of business at 4401 Great America Parkway Santa Clara, CA 95054 ("Assignor"), certifies that to the best of Assignor's knowledge and belief it is the sole assignee of each of the patent applications and patents listed in Exhibit A.

Assignor hereby:

- 1) Assigns and transfers to Palo Alto Networks, Inc., a corporation existing and organized under the laws of Delaware, having its principal place of business at 4401 Great America Parkway Santa Clara, CA 95054 ("Assignee"), each of the patent applications and patents listed in Exhibit A, including the entire right title and interest in any and all improvements and inventions disclosed in, applications (including any foreign applications) based upon, and patents (including any foreign patents) granted upon the information which is disclosed in the above referenced applications (listed in Exhibit A) and/or in any provisional applications to which the above referenced applications (listed in Exhibit A) claim priority, including without limitation any and all rights to sue for past infringement and to recover damages for any and all past infringement.
- 2) Authorizes and requests the Commissioner of Patents to issue any and all Letters Patents resulting from patent applications claiming priority to or otherwise related to the above referenced patent applications and patents (listed in Exhibit A) including any divisional(s), continuation(s), continuation-in-part(s), substitutes(s) or reissue(s) thereof to Assignee.

Signed on the dates indicated beside my signature.

Assig	gnor
Ву	Jeffrey C. Frue
	<u>Director</u> Title
	8-30-20/6
	Date

EXHIBIT A

<u>Country</u>	Status, Filing Date, App. Serial No.	Pat/Reg No., <u>Issue/Reg Date</u>	Title
US	Status: Allowed Filed: 6/10/2013 Serial #: 13/914,368		Title: INTERROGATING MALWARE
US	Status: Converted Filed: 9/25/2012 Serial #: 61/705,569		Title: SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS FOR ACTIVE HUNTING OF MALWARE IMPLANTS
US	Status: Pending Filed: 6/28/2016 Serial #: 15/195,397		Title: INTERROGATING MALWARE
US	Status: Allowed Filed: 6/10/2013 Serial #: 13/914,431		Title: DISCOVERING NETWORK NODES
US	Status: Issued Filed: 6/11/2013 Serial #: 13/915,585	Issued: 9/1/2015 Pat. #: 9,124,625	Title: INTERDICTING UNDESIRED SERVICE
US	Status: Pending Filed: 7/20/2015 Serial #: 14/804,247		Title: INTERDICTING UNDESIRED SERVICE
	US US US US	Country App. Serial No. US Status: Allowed Filed: 6/10/2013 Serial #: 13/914,368 US Status: Converted Filed: 9/25/2012 Serial #: 61/705,569 US Status: Pending Filed: 6/28/2016 Serial #: 15/195,397 US Status: Allowed Filed: 6/10/2013 Serial #: 13/914,431 US Status: Issued Filed: 6/11/2013 Serial #: 13/915,585 US Status: Pending Filed: 7/20/2015 Serial #: 5erial #:	Country App. Serial No. Issue/Reg Date US Status: Allowed Filed: 6/10/2013 Serial #: 13/914,368 US Status: Converted Filed: 9/25/2012 Serial #: 61/705,569 US Status: Pending Filed: 6/28/2016 Serial #: 15/195,397 US Status: Allowed Filed: 6/10/2013 Serial #: 13/914,431 US Status: Issued Filed: 6/11/2013 Serial #: 13/915,585 US Status: Pending Filed: 7/20/2015 Serial #: 13/915,585

PATENT REEL: 039621 FRAME: 0490

RECORDED: 09/02/2016