

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	EXPANSE, LLC	05/17/2021
RECEIVING PARTY DATA		
Name:	PALO ALTO NETWORKS, INC.	
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City:	SANTA CLARA	
State/Country:	CALIFORNIA	
Postal Code:	95054	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	17444287
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DATE SIGNED:	08/03/2021	
Total Attachments: 3		
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ASSIGNMENT

Expanse, LLC, 1013 Centre Road, Suite 403-B, Wilmington DE 19805 ("Assignor") assigns, transfers, and conveys to Palo Alto Networks, Inc., 3000 Tannery Way, Santa Clara, CA 95054 ("Assignee") all rights, title, and interests Assignor has in and to the patents and patent applications identified in Appendix A. The rights, title, and interests include those to enforcement/infringement actions, to collect royalties, to prosecute existing patent applications worldwide, to pursue additional patent applications worldwide, and to have patents issue to the Assignee.

Assignor requests and authorizes the appropriate officials in any country to issue any and all Patents that may be granted/issued upon any patent application or any additional continuation or divisional application(s) thereof to the Assignee, its successors and assigns.

Assignor grants to Assignee and its agents/representatives permission to insert into this instrument any further identifying information necessary or desirable to facilitate recordation of this Assignment in an intellectual property office of any country or region.

Assignor: Expanse, LLC

DocuSigned by:

Bruce Byrd

Bruce Byrd, Manager
Expanse, LLC

Date: 2021-05-17

Assignee: Palo Alto Networks, Inc.

DocuSigned by:

Bruce Byrd

Bruce Byrd, Executive Vice President/General Counsel
Palo Alto Networks, Inc.

Date: 2021-05-17

Appendix A

Application #	Patent #	Title
62/586,669	N/A	CORRELATION DRIVEN THREAT ASSESSMENT AND REMEDIATION
15/984,030	10,965,707	CORRELATION-DRIVEN THREAT ASSESSMENT AND REMEDIATION
17/216,623	N/A	CORRELATION-DRIVEN THREAT ASSESSMENT AND REMEDIATION
PCT/US2018/033504	N/A	CORRELATION-DRIVEN THREAT ASSESSMENT AND REMEDIATION
62/610,346	N/A	AUTONOMOUS ALERTING SYSTEM FOR NETWORK MONITORING BASED ON TECHNICALLY-DEFINED CATEGORIZATIONS FOR NETWORK SPACE AND NETWORK BOUNDARY CHANGE
16/230,589	N/A	AUTONOMOUS ALERTING BASED ON DEFINED CATEGORIZATIONS FOR NETWORK SPACE AND NETWORK BOUNDARY CHANGES
PCT/US2018/067234	N/A	AUTONOMOUS ALERTING BASED ON DEFINED CATEGORIZATIONS FOR NETWORK SPACE AND NETWORK BOUNDARY CHANGES
62/508,298	N/A	GLOBAL INTERNET SENSOR FUSION
16/166,906	N/A	DISCOVERING INTERNET PROTOCOL (IP) ADDRESSES INVOLVED IN FLOWS TRAVERSING THE INTERNET
16/166,972	N/A	DETERMINING RISK ASSOCIATED WITH INTERNET PROTOCOL (IP) ADDRESSES INVOLVED IN INTERNET COMMUNICATIONS
62/847,266	N/A	REMOTE DYNAMIC DETECTION OF INTERACTIONS WITH MALWARE DOMAINS
16/167,029	N/A	SECURITY MANAGEMENT PLATFORMS FOR ASSESSING THREATS TO AN INTERNAL NETWORK
14/966,320	10,666,536	NETWORK ASSET DISCOVERY
16/837,276	N/A	NETWORK ASSET DISCOVERY

15/136,620	10,425,430	HIERARCHICAL SCANNING OF INTERNET CONNECTED ASSETS
16/579,302	N/A	HIERARCHICAL SCANNING OF INTERNET CONNECTED ASSETS
PCT/US2017/016399	N/A	HIERARCHICAL SCANNING OF INTERNET CONNECTED ASSETS
15/276,632	10,749,857	NETWORK MAPPING USING A FINGERPRINT
PCT/US2017/016401	N/A	NETWORK MAPPING USING A FINGERPRINT
15/342,991	N/A	FINGERPRINT DETERMINATION FOR NETWORK MAPPING
PCT/US2017/053535	N/A	FINGERPRINT DETERMINATION FOR NETWORK MAPPING
15/463,963	N/A	TRIGGERED SCANNING USING PROVIDED CONFIGURATION INFORMATION
PCT/US2017/065427	N/A	TRIGGERED SCANNING USING PROVIDED CONFIGURATION INFORMATION
15/463,990	10,831,838	TRIGGERED SCANNING BASED ON NETWORK AVAILABLE DATA CHANGE
17/021,722	N/A	TRIGGERED SCANNING BASED ON NETWORK AVAILABLE DATA CHANGE
PCT/US2017/065428	N/A	TRIGGERED SCANNING BASED ON NETWORK AVAILABLE DATA CHANGE
15/466,735	N/A	DISTRIBUTED SCANNING
PCT/US2017/065430	N/A	DISTRIBUTED SCANNING
62/911,076	N/A	NETWORK ASSET LIFECYCLE MANAGEMENT
17/037,107	N/A	NETWORK ASSET LIFECYCLE MANAGEMENT
62/911,077	N/A	NETWORK ASSET GOVERNANCE
62/911,078	N/A	SUPPLY CHAIN NETWORK SECURITY
63/015,891	N/A	DYNAMIC REAL TIME GLOBAL PROTECTION OF REMOTE WORKFORCE