

PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT
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DATE SIGNED:	11/19/2015
Total Attachments: 5	
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ASSIGNMENT OF PATENT RIGHTS

This patent assignment ("Assignment") is entered into as of the below-date by and between Verizon Patent and Licensing Inc., a company organized under the laws of Delaware with a principal place of business at One Verizon Way, Basking Ridge, NJ 07920 ("Assignor"), and Palo Alto Networks, Inc., a Delaware corporation, having a mailing address of 4401 Great America Parkway, Santa Clara, CA 95054-1211 ("Assignee").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor, does hereby irrevocably sell, assign, transfer, and convey unto Assignee, or its designees, all right, title, and interest that exist today and may exist in the future in and to all of the following (collectively, the "Patent Rights"):

- (a) the provisional patent applications, patent applications and patents listed in the attached Appendix A (the "Patents");
- (b) patents or patent applications (i) from which any of the patents or patent applications identified in the foregoing category (a) claims priority, and/or (ii) for which any of the patents or patent applications identified in the foregoing category (a) forms a basis for priority;
- (c) reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, and divisions of any item in the foregoing categories (a) and (b);
- (d) foreign patents, patent applications and counterparts claiming priority from any item in the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances
- (e) causes of action (whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any of the Patents and/or the rights in categories (a) through (d) above, including, without limitation, all causes of action and other enforcement rights for (i) past and future damages, (ii) injunctive relief, and (iii) any other remedies of any kind for past, current and future infringement; and
- (f) rights to collect past and future royalties or other payments for a license under or on account of any of the Patents and/or any of the foregoing, other than as agreed upon between the parties.

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

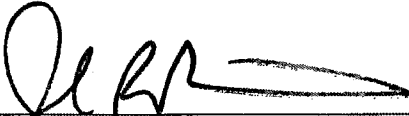
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The terms and conditions of this Assignment of Patent Rights will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

Signed by Assignor at Somerset County, New Jersey on October 7, 2015

ASSIGNOR

By: VERIZON PATENT AND LICENSING INC.



Name: Joseph R. Palmieri
Title: Vice President

ASSIGNEE

By: PALO ALTO NETWORKS, INC.



Name: Michael Ritter
Title: Senior Director of IP Strategy

ASSIGNMENT OF PATENT RIGHTS

APPENDIX A

PATENT / APPLICATION NUMBER	COUNTRY	STATUS	ISSUE DATE (Patent) FILING DATE (App)	TITLE
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PATENT / APPLICATION NUMBER	COUNTRY	STATUS	ISSUE DATE (Patent) FILING DATE (App)	TITLE
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US8001589B2	US	Issued	August 16th, 2011	Network firewall test methods and apparatus
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PATENT / APPLICATION NUMBER	COUNTRY	STATUS	ISSUE DATE (Patent) FILING DATE (App)	TITLE
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