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17 Attorneys for Plaintiffs
 SYMANTEC CORPORATION
 18 and SYMANTEC LIMITED.

UNITED STATES DISTRICT COURT

NORTHERN DISTRICT OF CALIFORNIA – OAKLAND

21 SYMANTEC CORPORATION and
22 SYMANTEC LIMITED,

23 Plaintiffs,

24 vs.

25 ZSCALER, INC,

26 Defendant.

Case No. 4:17-CV-04414-JST

**PLAINTIFFS’ SECOND AMENDED
COMPLAINT FOR PATENT
INFRINGEMENT**

Judge: Hon. Jon S. Tigar

BAKER BOTTS L.L.P.

1 Plaintiffs Symantec Corporation and Symantec Limited (“Symantec” or
2 “Plaintiffs”) file this complaint for patent infringement against Defendant Zscaler, Inc.
3 (“Zscaler” or “Defendant”) and in support thereof allege and aver as follows:

4 **NATURE OF THE ACTION**

5 1. This is an action for patent infringement arising under the patent laws of the
6 United States, 35 U.S.C. § 1 *et seq.*, specifically including 35 U.S.C. § 271.

7 **THE PARTIES**

8 2. Symantec Corporation is a corporation organized under the laws of the State of
9 Delaware, with a principal place of business at 350 Ellis Street, Mountain View, California.

10 3. Symantec Limited is a company organized under the laws of the Ireland, with a
11 principal place of business at Ballycoolin Business Park Blanchardstown, Dublin, Co. Dublin
12 15, Ireland.

13 4. On information and belief, Zscaler is a corporation organized under the laws of
14 the State of Delaware, with a principal place of business at 110 Rose Orchard Way, San Jose,
15 California.

16 **JURISDICTION AND VENUE**

17 5. This Court has subject matter jurisdiction over this patent infringement action
18 pursuant to 28 U.S.C. §§ 1331 and 1338(a).

19 6. Zscaler is deemed to reside in this judicial district by virtue of being incorporated
20 in the State of Delaware. In addition, on information and belief, Zscaler regularly transacts
21 business in Delaware, including but not necessarily limited to offering products or services that
22 infringe one or more of Symantec’s asserted patents to customers located in Delaware and/or for
23 use in Delaware. Accordingly, this Court may properly exercise personal jurisdiction over
24 Zscaler.

25 7. Venue lies in this judicial district pursuant to 28 U.S.C. §§ 1391(b), 1391(c)
26 and/or 1400(b) at least because Zscaler is deemed to reside in this judicial district by virtue of
27 being incorporated in the State of Delaware. In addition, on information and belief, Zscaler has
28 committed acts of infringement in the State of Delaware, including but not necessarily limited to

1 offering products or services that infringe one or more of Symantec's asserted patents to
2 customers located in Delaware and/or for use in Delaware.

3 **THE PATENTS-IN-SUIT**

4 8. U.S. Patent No. 8,316,429 ("the '429 Patent"), titled "Methods and Systems for
5 Obtaining URL Filtering Information," was issued by the USPTO on Nov. 20, 2012. Symantec
6 is the owner by assignment of the entire right, title and interest in and to the '429 Patent,
7 including the sole and undivided right to sue for infringement. A true and correct copy of the
8 '429 Patent is attached hereto as Exhibit D.

9 9. U.S. Patent No. 8,316,446 ("the '446 Patent"), titled "Methods and Apparatus for
10 Blocking Unwanted Software Downloads," was issued by the USPTO on Nov. 20, 2012.
11 Symantec is the owner by assignment of the entire right, title and interest in and to the '446
12 Patent, including the sole and undivided right to sue for infringement. A true and correct copy
13 of the '446 Patent is attached hereto as Exhibit E.

14 10. U.S. Patent No. 8,402,540 ("the '540 Patent"), titled "Systems and Methods for
15 Processing Data Flows," was issued by the USPTO on March 19, 2013. Symantec is the owner
16 by assignment of the entire right, title, and interest in and to the '540 Patent, including the sole
17 and undivided right to sue for infringement. A true and correct copy of the '540 Patent is
18 attached hereto as Exhibit F.

19 11. The '429 Patent, '446 Patent, and '540 Patent are referred to herein collectively as
20 the Patents-in-Suit.

21 **BACKGROUND OF THE DISPUTE**

22 **Symantec Is a Pioneer in Fundamental Networking and Security Technology**

23 12. Since its inception, Symantec has been providing software products to enhance
24 its customers' computing productivity, security and reliability. Symantec was founded in 1982
25 by computer scientist Gary Hendrix with a grant from the National Science Foundation.
26 Originally focused on natural language processing and artificial intelligence-related products,
27 Symantec grew throughout the 1980s through organic growth and strategic acquisitions in the
28 computer software field. In 1990, Symantec merged with Peter Norton Computing, a developer

1 of various consumer antivirus and data management utilities. At the time, Symantec was
2 already a market leader for Macintosh antivirus and utilities software and had already begun
3 development of a DOS-based antivirus program, making the merger with Norton strategically
4 advantageous. Norton AntiVirus was launched in 1991. In 1993, the Norton product group
5 accounted for 82% of Symantec's total revenues.

6 13. Among other areas of expansion, Symantec sought to develop and acquire more
7 products for corporate customers. Specifically, Symantec sought to offer products that would
8 serve enterprise environments in which desktop computers were connected with local and other
9 networks. Symantec was determined to achieve a goal of providing integrated, platform
10 independent and centralized network administration solutions. Symantec's investment and
11 innovation led to the launching the Norton Enterprise Framework in 1996. By the late 1990s,
12 Symantec was marketing three major product lines. The first line covered security and assistance
13 products, consisting mainly of Norton AntiVirus and Norton Utilities products to keep personal
14 computers protected and reliable. The second line included remote productivity solutions,
15 which enabled telecommuters, mobile professionals and workers in remote offices to access
16 information, applications and data on-demand from any location. The third line included
17 internet tools, primarily for Java programmers.

18 14. On August 1, 2016, Symantec acquired Blue Coat Systems, Inc. ("Blue Coat").
19 Blue Coat was founded in 1996, and has been a leading provider of advanced web security
20 solutions for global enterprises and governments. Through the acquisition, Symantec expanded
21 and complemented its technology offerings with the addition of Blue Coat's security platform
22 technology.

23 15. Symantec (including Blue Coat) has been a market leader with its technology
24 offerings and has been dedicated to continued innovation to help customers secure and manage
25 their information. Symantec expended tremendous resources in research and development to
26 create the intellectual property upon which its products are based. Over the years, Symantec has
27 invested billions of dollars in research and development, and a significant portion of that
28 investment is protected by a portfolio of over 2,000 United States patents.

1 **Zscaler’s Infringing Cloud Security Platform**

2 16. Zscaler is a relative newcomer to the network security arena, having been
3 founded in 2008. Zscaler has gained momentum in the marketplace through unlawful use of the
4 technology claimed in the Patents-in-Suit. Symantec is a direct competitor with Zscaler in the
5 network security space, and Zscaler’s infringement of the Patents-in-Suit is causing Symantec
6 irreparable harm.

7 17. On information and belief, Zscaler’s cloud security platform, including without
8 limitation its Zscaler Enforcement Node or “ZEN” component (collectively, “the Zscaler
9 Platform”), infringes one or more of the Patents-in-Suit, as described in more detail below.

10 **Zscaler’s Infringement is Willful**

11 18. Zscaler has been aware of the Patents-in-Suit and its infringement of those
12 patents since at least the filing of Symantec’s Original Complaint in *Symantec Corp. v. Zscaler,*
13 *Inc.*, Case No. 1:17-cv-00432 (D. Del. Apr. 18, 2017) on April 18, 2017.

14 19. Symantec’s April 18, 2017 Complaint explained how Zscaler met each element
15 of a claim of each of the Patents-in-Suit. Despite this knowledge, Zscaler has deliberately
16 chosen to continue to infringe the Patents-in-Suit by making, using, importing, selling, and/or
17 offering to sell the Zscaler Cloud Security Platform.

18 20. In addition, on information and belief, the ’429 Patent was brought to Zscaler’s
19 attention at least through Zscaler’s hiring of Lee Dolsen, an inventor of the ’429 Patent, from
20 Blue Coat on or around May 28, 2012. On information and belief, Lee Dolsen has a leadership
21 role as a technical director at Zscaler, and has an ownership stake in Zscaler. On information
22 and belief, Zscaler also had knowledge of the ’429 Patent through Zscaler’s hiring of: (1) Adam
23 Thompson from Blue Coat on or around March 1, 2016; (2) Haggai Polak from Blue Coat on or
24 around December 23, 2015; (3) Mark Ryan from Blue Coat on or around January 8, 2011; and
25 (4) Steve House from Blue Coat on or around September 4, 2015. Nevertheless, Zscaler has
26 continued its infringement of the ’429 Patent with full knowledge of that infringement.

27 21. On information and belief, the ’446 Patent was brought to Zscaler’s attention at
28 least through Zscaler’s hiring of Lee Dolsen, an inventor of the ’446 Patent, from Blue Coat on

1 or around May 28, 2012. On information and belief, Lee Dolsen has a leadership role as a
2 technical director at Zscaler, and has an ownership stake in Zscaler. On information and belief,
3 Zscaler also had knowledge of the '446 Patent through Zscaler's hiring of: (1) Adam Thompson
4 from Blue Coat on or around March 1, 2016; (2) Haggai Polak from Blue Coat on or around
5 December 23, 2015; (3) Mark Ryan from Blue Coat on or around January 8, 2011; and (4) Steve
6 House from Blue Coat on or around September 4, 2015. Nevertheless, Zscaler has continued its
7 infringement of the '446 Patent with full knowledge of that infringement.

8 22. On information and belief, Zscaler also had knowledge of the '540 Patent through
9 Zscaler's hiring of: (1) Adam Thompson from Blue Coat on or around March 1, 2016; (2)
10 Haggai Polak from Blue Coat on or around December 23, 2015; (3) Mark Ryan from Blue Coat
11 on or around January 8, 2011; (4) Steve House from Blue Coat on or around September 4, 2015;
12 and (5) Lee Dolsen from Blue Coat on or around May 28, 2012. Nevertheless, Zscaler has
13 continued its infringement of the '540 Patent with full knowledge of that infringement.

14 23. On information and belief, Zscaler's continued infringement of the Patents-in-
15 Suit has been willful and deliberate. In particular, as set forth below, Zscaler has willfully
16 infringed at least by copying features from Blue Coat's (now Symantec's) products that
17 incorporate or reflect the asserted claims of the Patents-in-Suit, failing to conduct a post-filing
18 investigation, failing to take any remedial actions upon learning of the patents, and increasing its
19 acts of infringement since the filing of this case.

20 24. On information and belief, Zscaler actively recruited and hired away several
21 former employees of Blue Coat in an effort to obtain information about and copy features from
22 Blue Coat's products. These individuals included, among others, Adam Thompson, Haggai
23 Polak, Lee Dolsen, Mark Ryan, and Steve House.

24 25. These individuals had knowledge regarding the operation of Blue Coat's
25 products. For example, Mr. Thompson, Mr. Dolsen, Mr. Ryan, and Mr. House worked on Blue
26 Coat's ProxySG product before Zscaler hired them away from Blue Coat. While at Blue Coat,
27 Mr. Thompson also worked on Blue Coat's Malware Analysis, Encrypted Traffic Management,
28 SSL Visibility, Threatpulse, and Packet Shaper solutions. On information and belief, Zscaler

1 availed itself of Mr. Dolsen’s knowledge and assistance to conduct its infringing activities. On
2 information and belief, Zscaler hired Mr. Dolsen, at least in part, to contribute to the
3 development of the technology now accused of infringing at least the ’429 and ’446 Patents.

4 26. Zscaler has also demonstrated a deliberate, bad-faith behavior evidencing a
5 pattern of copying of Blue Coat’s products. For example, after recruiting Blue Coat employees,
6 those individuals provided information regarding Blue Coat products. Indeed, while at Zscaler,
7 Mr. Ryan provided Zscaler’s “tiger team” with what he characterized as a “brain dump” on Blue
8 Coat’s Cloud solution.

9 27. On information and belief, one or more of Mr. Thompson, Mr. Polak, Mr.
10 Dolsen, Mr. Ryan, Mr. House, and other former Blue Coat employees provided Zscaler with
11 information related to Blue Coat’s (now Symantec’s) claimed technology and products
12 incorporating that technology. On information and belief, Zscaler used that information to copy
13 features from Blue Coat’s claimed technology and products incorporating that technology into
14 Zscaler’s Cloud Security Platform.

15 28. On information and belief, Zscaler copied features from Blue Coat’s claimed
16 technology and products to compete with Blue Coat and to “steal market share” from Blue Coat.
17 On information and belief, Zscaler has continued to compete with Blue Coat (acquired by
18 Symantec) using the features of the Zscaler Platform copied from Blue Coat’s claimed
19 technology and products.

20 29. Zscaler’s deliberate, bad-faith, and flagrant strategy to compete with Blue Coat
21 by copying features from the claimed technology of the Patents-in-Suit constitutes egregious
22 conduct.

23 30. On information and belief, Zscaler has made no good faith effort to avoid
24 infringement of the Patents-in-Suit. In particular, on information and belief, Zscaler failed to
25 conduct an adequate investigation into Symantec’s infringement allegations, thereby evidencing
26 Zscaler’s wanton disregard of Symantec’s patents. Zscaler’s conduct is particularly egregious
27 given that the parties are competitors and Symantec’s Complaint requests injunctive relief.
28

1 the Internet host(s) are encrypted so as to prevent eavesdropping by third parties,” such as for
2 communications between a client and hosts involved with electronic commerce or banking. *Id.*
3 at 1:34-40.

4 37. One example of such a secure communication technique is the SSL protocol.
5 SSL is a protocol unique to secure communications over the Internet. It “provides privacy
6 between two communicating applications,” such as a client’s Web browser and a Web server, by
7 encrypting data exchanged between the client and the server. *Id.* at 4:20-23, 4:31-37. Although
8 encryption offers many benefits (e.g., privacy), it created problems for proxy servers. In
9 particular, one “unfortunate consequence” was that proxy servers were not able to read the
10 messages being passed and therefore had “no way of determining whether their firewall policies
11 are being violated.” *Id.* at 1:41-45. As a result, proxy servers were “vulnerable to attacks by
12 computer viruses and other malware,” and private network owners/operators were exposed to
13 potential liability due to the possibility of permitting traffic to pass that otherwise would not
14 have been allowed had the proxy been able to apply its policies. *Id.* at 1:45-50. These are
15 problems that specifically arise in computer networks, and in particular in the context of secure
16 communications over the Internet through proxy servers.

17 38. Prior approaches to providing security in computer networks did not address this
18 unique problem of secure communications over the Internet. A potential solution is to “permit
19 the proxy to decrypt all transmissions between the private network client and the host and
20 subject those decrypted communications to scrutiny according to the firewall policies” as if the
21 original communications had not been encrypted. *Id.* at 1:51-55. Such an approach, however, is
22 unworkable for at least three reasons. First, it defeats the purpose of providing a secure
23 communication mechanism for sensitive data. *See id.* at 1:56-58. Second, the decrypted data at
24 the proxy becomes an attractive target for attacks by third parties that desired to exploit that
25 information. *See id.* at 1:58-60. Third, users are likely to reject such a solution due to the
26 inevitable intrusion into a user’s privacy. *See id.* at 1:60-2:3.

27 39. By January 31, 2006 (the filing date of the application which later issued as the
28 ’429 Patent), the inventors had recognized a need for “an effective way to police secure or

1 encrypted communications between clients and hosts that does not require decryption of the
2 message traffic.” *Id.* at 2:4-6. Prior to the invention of the ’429 Patent, when encrypted
3 communications such as SSL were used, the URL of the host “could not be extracted from the
4 client’s request and, short of decrypting that request, the network administrator” could not
5 prevent undesired access. *Id.* at 6:29-34. To address this unique problem arising in the context
6 of secure communications over the Internet, the inventors of the ’429 Patent developed novel
7 and innovative techniques for “extracting and categorizing [URLs] identifying hosts involved in
8 secure Internet communications without having to decrypt [SSL] communications from clients
9 seeking access to such hosts.” *Id.* at 1:6-10.

10 40. The claimed inventions of the ’429 Patent solve the problem of being unable to
11 police secure communications over the Internet (a problem specifically arising in the realm of
12 computer networks). Unlike prior approaches, the inventions described and claimed in the ’429
13 Patent “mak[e] use of the characteristics of the SSL handshake,” such as “information . . . in the
14 server’s digital certificate, to determine whether or not to permit communications between the
15 client and the host.” *Id.* at 6:35-39. These methods were and are a significant improvement over
16 (and patentably distinct from) existing approaches. *See* Ex. N, ’429 Patent Prosecution History,
17 at 405-417. The approach described and claimed in the ’429 Patent overcomes the dilemma
18 posed by secure communications by making use of characteristics of the SSL handshake in a
19 manner that prior approaches could not. *See* Ex. D, ’429 Patent at 6:35-39. Specifically,
20 “information contained in the server’s digital certificate” is used “to determine whether or not to
21 permit communications between the client and the host.” *Id.*

22 41. As described in the ’429 Patent, at the start of an SSL communication, a client
23 transmits a hello message that is received at the proxy/firewall. In response, the proxy/firewall
24 transmits its own hello message to the same IP address that was identified in the client’s initial
25 request (i.e., a destination IP address included in the client’s hello message, which indicates the
26 entity to which the message is directed). *See id.* at 6:39-52. When the destination server
27 receives the proxy’s hello message, it is indistinguishable from any other hello message (i.e., the
28 destination server is unaware that the message is an attempt by the proxy server to determine the

1 destination server's true identity). *See id.* at 7:10-16. The destination server returns a hello
2 message that includes its certificate.

3 42. According to an inventive technique of the '429 Patent (and in contrast to prior
4 approaches), when the proxy/firewall receives the destination server's certificate, the
5 proxy/firewall extracts information (such as the host name (typically in the form of a URL), the
6 certificate's issuer, or the signature of the issuer) from the certificate, which can then be used to
7 query a URL database. *Id.* at 7:20-23. Where the host name is used, the proxy then uses
8 category information returned from the URL database to determine whether or not to allow the
9 communication between the client and the destination server and/or whether or not to permit
10 tunneled communications between the two (i.e., allow communications to pass encrypted
11 through the proxy/firewall). *Id.* at 7:20-28. For example, if the host is a trusted entity, SSL
12 communications may be tunneled through the proxy/firewall, ensuring privacy for the
13 client/user. *Id.* at 5:40-43. If not, SSL communications may be decrypted at the proxy/firewall
14 to allow them to be subjected to further scrutiny. *Id.* at 5:43-45.

15 43. This inventive approach is captured at least in Claims 1 and 13 of the '429 Patent,
16 and their respective dependent claims. The claimed approaches are tied to computers (and in
17 particular, secure communications over the Internet) and cannot be performed by a human alone.
18 For example, Claim 1 recites "extracting, at the proxy, information from the digital certificate
19 associated with the Internet host," "categorizing, at the proxy, said Internet host into one or more
20 content categories according to said information extracted from the digital certificate," and
21 "based on the one or more content categories into which the Internet host is categorized,
22 determining, at the proxy, whether to (i) pass encrypted communication between a client and the
23 Internet host through the proxy without decrypting the encrypted communication at the proxy or
24 (ii) decrypt the encrypted communication between the client and the Internet host so as to permit
25 examination of the encrypted communication at the proxy."

26 44. According to another inventive aspect of the '429 Patent, "referrer header
27 information" in messages passed between clients and servers is used to determine whether or not
28 to permit downloads of content or other information from an Internet host identified in the

1 referrer header. *Id.* at 8:4-8. With this technique, the “refer header URL can also be categorized
2 by the proxy/firewall in the manner described above, sometimes permitting access to objects
3 [e.g., images] that otherwise might not be permitted.” *Id.* at 8:57-60; *see also id.* at 8:60-9:3.
4 This inventive approach is captured in independent Claim 10, in which a proxy categorizes the
5 referring source of a request for an object into one or more content categories and determines,
6 based on the one or more content categories into which the referring source is categorized,
7 whether communications should be passed between the client and an Internet host without
8 decryption. The claimed approach is tied to computers (and in particular, secure
9 communications over the Internet) and cannot be performed by a human alone.

10 45. These claim elements, individually or in combination, are unconventional and
11 nothing in the specification describes these concepts as well-understood, routine, or
12 conventional. To the contrary, the specification describes that with prior approaches “the URL
13 of the host . . . could not be extracted from the client’s request and, short of decrypting that
14 request, the network administrator may be unable to prevent the undesired access.” *Id.* at 6:29-
15 34. Prior approaches therefore lacked “an effective way to police secure or encrypted
16 communications between clients and hosts that does not require decryption of the message
17 traffic.” *Id.* at 2:4-6. Thus, for example, the steps of “extracting, at the proxy, information from
18 the digital certificate associated with the Internet host,” “categorizing, at the proxy, said Internet
19 host into one or more content categories according to said information extracted from the digital
20 certificate,” and “based on the one or more content categories into which the Internet host is
21 categorized, determining, at the proxy, whether to (i) pass encrypted communication between a
22 client and the Internet host through the proxy without decrypting the encrypted communication
23 at the proxy or (ii) decrypt the encrypted communication between the client and the Internet so
24 as to permit examination of the encrypted communication at the proxy” capture an
25 unconventional approach to policing secure communications that was unknown in the field
26 before the invention of the ’429 Patent. These claimed concepts solve the problems described
27 above and provide the advantages and improvements to computers described below.
28

1 46. Notably, the claimed inventions of the '429 Patent do not foreclose alternative
2 approaches to policing secure communications. That the claimed inventions of the '429 Patent
3 do not foreclose alternative approaches to managing bandwidth is evidenced by the substantial
4 number of patents that have issued after the disclosure of the '429 Patent had been considered
5 during prosecution of those patents. For example, on information and belief at least 6 U.S.
6 Patents have issued after the disclosure of the '429 Patent was considered during prosecution.
7 *See Ex. U.* Thus, rather than preclude all approaches to policing secure communications, the
8 claimed inventions of the '429 Patent are novel techniques that offered significant technical
9 advantages over alternative approaches, as described in more detail below.

10 47. The inventions described and claimed in the '429 Patent improve the functioning
11 of the computer systems in which they are implemented. For example, prior to the invention of
12 the '429 Patent, proxy servers and other network entities were unable to effectively police secure
13 or encrypted communications between clients and hosts without decrypting all message traffic.
14 *Id.* at 2:4-6. Decrypting all transmissions, however, made the proxy an attractive target for
15 attacks by third parties seeking to exploit that information and defeated the purpose of providing
16 secure communications in the first instance. The inventions described and claimed in the '429
17 Patent solved these problems and thereby improved the functioning of the proxy servers in
18 which they were implemented by providing an effective means of policing secure
19 communications without decrypting all traffic.

20 48. In addition to improving the functionality of existing proxy servers, the claimed
21 inventions of the '429 Patent offered a number of additional technical advantages over prior
22 approaches. As one example, the claimed invention of the '429 Patent allowed “network
23 managers to leverage URL databases used for categorizing servers or other Internet hosts for use
24 even with SSL communication sessions,” something that had not been achieved with prior
25 approaches. *Id.* at 5:45-48.

26 49. As another example, the claimed inventions of the '429 Patent enables a proxy to
27 use the URL of the certificate's issuer to make policy decisions, which advantageously allowed
28 the proxy to determine whether the issuer is a recognized and/or trusted issuer. *Id.* at 7:52-58.

1 This is advantageous in that it may “help prevent fraud, for example, where a host provider has
2 attempted to counterfeit a certificate.” *Id.* at 7:58-59. As still another example, the claimed
3 inventions of the ’429 Patent advantageously enables the proxy to “verify the signature of the
4 issuer as attached to the certificate” in order to confirm the legitimacy of the destination server.
5 *Id.* at 7:59-66.

6 50. As yet another example, the claimed inventions of the ’429 Patent
7 advantageously enables a proxy server to make use of referrer header categorization to
8 permit/deny communications between clients and servers, which can improve the granularity of
9 the URL filtering, “sometime permitting access to objects that otherwise might not be
10 permitted.” *Id.* at 8:57-60.

11 51. The approaches described and claimed in the ’429 Patent represented a
12 significant advance over the prior approaches that were not well-known, routine, or conventional
13 in the field at the time the ’429 Patent was filed. On information and belief, during examination
14 of the application which ultimately issued as the ’429 Patent, the patent examiner at the USPTO
15 considered at least 24 U.S. patent documents, as well as one other publication. *See id.* at Cover
16 Page. *See also* Ex. N, ’429 Patent Prosecution History, at 68, 70-80, 117-127, 161-175, 177,
17 205-206, 208-224, 250, 252-269, 303, 305-325, 363-365, 367-385, 418-421, 423-461
18 (describing search results and references considered). These include references from IBM,
19 Microsoft Corporation, prior Symantec and Blue Coat solutions, amongst others. The patent
20 examiner determined that none disclosed or rendered obvious the inventions of the ’429 Patent.
21 *See* Ex. N, ’429 Patent Prosecution History, at 405-417 (notice of allowance). Indeed, the
22 examiner stated that “[n]one of the prior art of record, either taken by itself or in any
23 combination, would have anticipated or made obvious the invention of the present application at
24 or before the time it was filed.” *Id.* at 415.

25 52. On information and belief, Zscaler directly infringes one or more claims of the
26 ’429 Patent, either literally or under the doctrine of equivalents. Non-limiting examples of such
27 infringement are provided below, based on the limited information currently available to
28 Symantec.

1 53. Claim 1 of the '429 Patent recites as follows:

2 A method, comprising:

3 receiving, at a proxy, a client hello message from a client;

4 transmitting, from said proxy to an Internet host, a request for a digital
5 certificate associated with the Internet host;

6 extracting, at the proxy, information from the digital certificate associated
7 with the Internet host;

8 categorizing, at the proxy, said Internet host into one or more content
9 categories according to said information extracted from the digital certificate,
10 said categorizing including maintaining a table at said proxy wherein each
11 Internet host is associated with a category which defines attributes of the Internet
12 host or content associated with the Internet host; and

13 based on the one or more content categories into which the Internet host is
14 categorized, determining, at the proxy, whether to (i) pass encrypted
15 communication between a client and the Internet host through the proxy without
16 decrypting the encrypted communication at the proxy or (ii) decrypt the
17 encrypted communication between the client and the Internet host so as to permit
18 examination of the encrypted communication at the proxy.

19 54. On information and belief, the Zscaler cloud security platform satisfies each and
20 every limitation of Claim 1. Zscaler's cloud security platform, including its ZEN component,
21 receive, at a proxy (e.g., a ZEN), a client hello message from a client. For example, Zscaler's
22 ZEN component receives a client hello message from a client (e.g., a subscriber's computer) in
23 the form of an HTTPS request from the client. Zscaler's cloud security platform, including its
24 ZEN component, transmit, from the proxy to an Internet host, a request for a digital certificate
25 associated with the Internet host. For example, Zscaler's ZEN component transmits an HTTPS
26 request to a destination server thereby initiating an SSL handshake. Zscaler's cloud security
27 platform, including its ZEN component, extracts information from the digital certificate
28 associated with the Internet host. For example, Zscaler's ZEN component receives a certificate
 from the destination server and reads information from the certificate during validation of the
 destination server. Zscaler's cloud security platform, including its ZEN component, categorizes
 the Internet host into one or more content categories according to the information extracted from

1 the digital certificate. For example, Zscaler's ZEN component categorizes URLs into various
2 different classes, supercategories, and categories consistent with information extracted from the
3 destination server's certificate. Zscaler's cloud security platform, including its ZEN component,
4 maintains a table at the proxy wherein each Internet host is associated with a category that
5 defines attributes of the Internet host or content associated with the Internet host. For example,
6 Zscaler's cloud security platform includes a table for each class, supercategory, and category
7 that associates URLs with particular categories. The categories further include attributes that
8 define the Internet host or content associated with the host, such as a description of the
9 "gambling" category that defines attributes of "gambling" sites as "sites that provide online
10 gambling or are related to gambling assistance, training, information, or advocacy." Zscaler's
11 cloud security platform, including its ZEN component, based on the one or more content
12 categories into which the Internet host is categorized, determines whether to (i) pass encrypted
13 communication between a client and the Internet host through the proxy without decrypting the
14 encrypted communication at the proxy or (ii) decrypt the encrypted communication between the
15 client and the Internet host so as to permit examination of the encrypted communication at the
16 proxy. For example, Zscaler's cloud security platform permits SSL configuration such that SSL
17 communications that fall within certain URL categories are passed from the destination server to
18 the client through the ZEN without decrypting the communication. If the SSL communication
19 does not fall within one of the specified URL categories, then the communication is decrypted
20 so that the ZEN can inspect the decrypted communication for, among other things, data leakage,
21 malicious content, viruses, and to enforce policy. As such, the ZEN determines whether to pass
22 the encrypted SSL communication or decrypt the communication based on the categorization of
23 URLs into content categories.

24 55. In view of the foregoing, Zscaler directly infringes the '429 Patent in violation of
25 35 U.S.C. § 271(a).

26 56. On information and belief, both by configuring the ZEN component to operate in
27 a manner that Zscaler knows infringes the '429 Patent and by encouraging customers to use the
28 ZEN component in a manner that Zscaler knows infringes the '429 Patent, Zscaler is inducing

1 infringement of the '429 Patent by its customers in violation of 35 U.S.C. § 271(b), at least as of
2 service of this complaint. For example, Zscaler's marketing literature touts functionality of the
3 ZEN component that falls within the scope of the above-identified claims of the '429 Patent.

4 57. Symantec has no adequate remedy at law for Zscaler's acts of infringement. As a
5 direct and proximate result of Zscaler's acts of infringement, Symantec has suffered and
6 continues to suffer damages and irreparable harm. Unless Zscaler's acts of infringement are
7 enjoined by this Court, Symantec will continue to be damaged and irreparably harmed.

8 **Count II – Infringement of U.S. Patent No. 8,316,446**

9 58. Symantec incorporates by reference the allegations in Paragraphs 1 through 132
10 above.

11 59. There are dangers and risks associated with connecting a computer to the
12 Internet, such as computer viruses that spread from computer to computer (for example, using e-
13 mail). Ex. E, '446 Patent at 1:20-24. There were also other types of unwanted software that
14 could be harmful to the operation of a computer. Spyware and Trojans are two examples of
15 these kinds of threats to computer and data safety. *Id.* at 1:24-25. "Spyware is malicious code
16 that covertly monitors actions taken on a PC, and reports those activities to an outside entity.
17 For example, spyware can log and report all websites visited by a user, along with other personal
18 data such as passwords, bank accounts, social security numbers, and so on." *Id.* at 1:25-30.
19 Trojans, meanwhile, "are programs that appear legitimate, but perform some illicit activity when
20 executed," such as locating password information, making a system more vulnerable to
21 subsequent attacks, or destroying programs or data stored on the computer. *Id.* at 1:31-35.
22 Problematically, Trojans often sneak into computer systems disguised in free games or other
23 utilities, and remain in the computer doing damage or permit a third party to take control of the
24 computer. *Id.* at 1:35-40. These are problems that specifically arise in computer networks.

25 60. Prior approaches to network security were not able to provide adequate protection
26 against these unwanted software downloads. Unwanted software is "often sent as executable
27 files—such as those having .EXE (executable), .COM (command), or .DLL (dynamic linked
28 library) file extensions—or active content files—such as those having .CAB (cabinet) and .OCX

1 (OLE control extension) file extensions. Spyware, however, “may be disguised in some fashion
2 to pass through” a URL scanner, such as “file extensions camouflaged to disguise their true
3 nature.” *Id.* at 5:1-6. Likewise, Trojans “often sneak in attached to a free game or other utility.”
4 *Id.* at 1:37-38. These features of unwanted software like spyware and Trojans made it difficult
5 for prior network security elements to provide adequate protection against these threats.

6 61. By April 22, 2005 (the date on which the application which subsequently issued
7 as the '446 Patent was filed), the inventors of the '446 Patent (employees of Blue Coat)
8 recognized the need for a “comprehensive system to block unwanted software downloads and
9 installations.” *Id.* at 1:41-42. In particular, the inventors developed new methods and apparatus
10 to block unwanted software downloads, for example at gateway to enterprise or home networks.
11 These methods and systems were and are a significant improvement over (and patentably
12 distinct from) existing approaches to network security, which failed to provide comprehensive
13 protection against unwanted software downloads. *See Ex. O, '446 Patent Prosecution History*, at
14 23-34.

15 62. Specifically, the claimed inventions of the '446 Patent provide protection against
16 unwanted software downloads by enabling network devices (such as a proxy server or a firewall)
17 to block unwanted software downloads from Web sites. As described and claimed in the '446
18 Patent, a proxy server may use a URL filter to categorize a URL from which a download is
19 arriving at the system. *Ex. E, '446 Patent* at 6:65-7:3. The proxy server can employ a URL
20 database to categorize the URL that originated a download by matching the source URL against
21 the URL database and retrieving the category associated with the source URL. *Id.* at 7:27-30.
22 For example, a URL may be categorized as a “gaming” site. In some instances, a URL may be
23 categorized on a “blacklist” that may indicate downloads from that URL should be blocked or
24 on a “whitelist” that may indicate downloads from that URL should be allowed.

25 63. In other cases, however, a URL may not be categorized into either a “blacklist” or
26 a “whitelist” and thus more information may be required to determine whether to block a
27 software download from such a URL. To address this problem, the claimed inventions of the
28 '446 Patent provide for blocking or not blocking an attempted download based on a

1 categorization of the URL from which the download is attempted, the file type of the software
2 being downloaded, and whether downloads of that particular file type are permitted for that
3 category of Web sites. The claimed methods and systems employ a file type identifier
4 “configured to identify the download by file type.” *Id.* at 7:38-40. The file type identifier can
5 identify the file type using a file type database that can include a file type extension list
6 associating file types with file extensions and/or a file type signature list that includes signatures
7 of various file types and the file types with which they are associated. *Id.* at 7:52-54, 7:62-65.

8 64. The use of the file type signatures list is especially advantageous in handling
9 files, such as spyware, that have file extensions camouflaged to disguise their true nature. For
10 example, “to prevent downloads of files that may have file extensions camouflaged to disguise
11 their true nature,” the proxy server is “configured to scan incoming files for spyware signatures
12 that cannot be hidden (e.g., through changes in file extensions) and take action according to
13 user-defined spyware policies.” *Id.* at 5:1-9. The claimed invention of the ’446 Patent leverages
14 the fact that spyware, by its nature, contains certain patterns that the spyware scanner can read in
15 order to identify the true nature of the associated file. *Id.* at 5:10-13. As one example, “a .CAB
16 file will include a header having a certain format,” and the file signature list may include
17 information about known characteristics of spyware headers and the like. *Id.* at 5:12-19. The
18 file type identifier can scan the file being downloaded, compare the scanned information with
19 the signature information, and determine the file type based on the signature (even if the file
20 extension has been changed to mask the true nature of the file). *Id.* at 5:19-24, 7:65-8:3.

21 65. The proxy server can then block or allow the software download based on the
22 categorization and the file type. This information can be used in a variety of ways,
23 advantageously providing operators a more flexible and nuanced approach to protecting against
24 unwanted software downloads. For example, “the blocking decision module can implement a
25 blocking rule to block all .CAB files from URLs on the URL blacklist,” whether “the .CAB file
26 was identified by file extension or by signature.” *Id.* at 8:11-14. “Another blocking rule can
27 block all downloads from non-whitelisted URLs where the file type identified by file extension
28 does not match the file type identified using the signature list.” *Id.* at 8:14-17. As another

1 example using the “gaming” sites category discussed above, the blocking decision module “can
2 be configured to allow executable (.EXE) files to be downloaded from known gaming sites, but
3 not cabinet (.CAB) files. Since most online games require downloading some executable code,
4 a .EXE download does not look very suspicious from a site in this category. However, a .CAB
5 file from a gaming site would highly likely contain unwanted code.” *Id.* at 8:18-25.

6 66. This inventive approach is captured in at least in Claims 1, 5, and 8, and their
7 respective dependent claims. The claimed approaches are tied to computers and cannot be
8 performed by a human alone. For example, Claim 1 recites “intercepting at a Uniform Resource
9 Locator (URL) filter module of a network device, an attempted download of a file from a URL,”
10 “categorizing by the URL filter module of the network device the URL into a URL category
11 according to a URL database,” “analyzing by a file type identifier module of the network device
12 the file to determine its file type . . . by detecting one or more of a file type signature in the file
13 and a file extension of the file,” “identifying the file type based on one or more of the file type
14 signature detected in the file and the file extension of the file,” and “blocking or not blocking the
15 attempted download according to a decision output of a blocking decision module of the
16 network device which receives as inputs the URL category and the file type.” If the URL
17 category does not indicate a blacklist or a whitelist, “the URL category specifies a URL content
18 category indicating a type of content provided by the URL and the decision output is based on
19 whether files of said file type are permitted for URLs in the URL content category.”

20 67. These claim elements, individually or in combination, are unconventional, and
21 nothing in the specification describes these concepts as well-understood, routine, or
22 conventional. To the contrary, the specification describes that prior approaches to network
23 security were not able to provide adequate protection against unwanted software downloads, and
24 in particular those that “may be disguised in some fashion to pass through” a URL scanner, such
25 as “file extensions camouflaged to disguise their true nature.” *See id.* at 5:1-6. These features of
26 unwanted software like spyware and Trojans made it difficult for prior network security
27 elements to provide adequate protection against these threats. Thus, for example, the steps of
28 “intercepting at . . . a network device, an attempted download of a file from a URL,”

1 “categorizing . . . the URL into a URL category according to a URL database,” “analyzing . . .
2 the file to determine its file type . . . by detecting one or more of a file type signature in the file
3 and a file extension of the file,” “identifying the file type based on one or more of the file type
4 signature detected in the file and the file extension of the file,” and “blocking or not blocking the
5 attempted download according to a decision output of a blocking decision module of the
6 network device which receives as inputs the URL category and the file type” capture an
7 unconventional approach to blocking unwanted software downloads that was unknown in the
8 field before the invention of the ’446 Patent. The functions of the claimed URL filter module,
9 file type identifier module, and blocking decision module recited in the claims, in combination,
10 perform unconventional functions that were not performed in prior systems or methods. Indeed,
11 these claimed concepts solve the problems described above and provide the advantages and
12 improvements to computers described below.

13 68. Notably, the claimed inventions of the ’446 Patent do not foreclose alternative
14 approaches to blocking unwanted software downloads. That the claimed inventions of the ’446
15 Patent do not foreclose alternative approaches to blocking unwanted software downloads is
16 evidenced by the substantial number of patents that have issued after the disclosure of the ’446
17 Patent had been considered during prosecution of those patents. For example, on information
18 and belief at least 9 U.S. Patents have issued after the disclosure of the ’446 Patent was
19 considered during prosecution. *See* Ex. V. Thus, rather than preclude all approaches to
20 blocking unwanted software downloads, the claimed inventions of the ’446 Patent are novel
21 techniques that offered significant technical advantages over alternative approaches, as
22 described in more detail below.

23 69. The inventions described and claimed in the ’446 Patent improve the functioning
24 of the computer networks in which they are implemented. For example, prior to the invention of
25 the ’446 Patent, the performance of computer systems often suffered due to a failure to block
26 unwanted software downloads (such as computer viruses, worms, spyware, and Trojans),
27 leading to system instability, malfunction, and/or loss of critical files. For example, the damage
28 caused by undetected viruses can range from mildly annoying effects to damage to hardware,

1 software, or files. As another example, a worm introduced into a computer system can consume
2 too much system memory (or network bandwidth), causing Web servers, network servers and
3 individual computers to stop responding. As another example, computer systems that have been
4 compromised by a Trojan horse may allow malicious users and/or programs access to the
5 computer system to steal confidential and personal information. The inventions described and
6 claimed in the '446 Patent solved these problems by providing a comprehensive system to block
7 unwanted software downloads and installations, thereby reducing or eliminating the above-
8 described consequences that can result from unwanted software downloads.

9 70. Moreover, the inventions described and claimed in the '446 Patent offered a
10 number of additional technical advantages over prior approaches. Unlike prior approaches, the
11 claimed invention of the '446 Patent enables URL category and file type of an attempted
12 download to be taken into account in blocking attempted downloads. This advantageously
13 allows for the implementation of a variety of blocking rules, and permits a more comprehensive
14 approach to protecting against software downloads while permitting flexibility in the rules that
15 are applied to various URLs. The functioning of the systems (e.g., proxy server or firewall) in
16 which the methods are employed are thereby improved. As another example, the claimed
17 invention of the '446 Patent provides an effective mechanism for combatting spyware that may
18 be disguised in some fashion to evade existing network security solutions (e.g., spyware having
19 camouflaged file extensions). Furthermore, the '446 Patent improves existing systems by
20 allowing them to recognize situations in which the file type extension of an attempted download
21 does not match the file type signature and block or allow the download based on rules tailored to
22 that particular circumstance.

23 71. The approaches described and claimed in the '446 Patent represented significant
24 advances over prior approaches that were not well-known, routine, or conventional. On
25 information and belief, during examination of the application which ultimately issued as the
26 '446 Patent, the patent examiner at the USPTO considered at least 33 U.S. patent documents, as
27 well as 4 other publications. *See id.* at Cover Page. *See also* Ex. O, '446 Patent Prosecution
28 History, at 36-42, 45-69, 127-145, 176, 179-197, 231, 234-249, 288-299, 302-303, 318-324,

1 356, 359-370, 392, 394-404, 441, 443-447, 485, 487-491 (describing search results and
2 references considered). These include references describing solutions from Microsoft
3 Corporation and IBM, amongst others. The patent examiner determined that none disclosed or
4 rendered obvious the inventions of the '446 Patent. *See* Ex. O, '446 Patent Prosecution History,
5 at 23-34 (notice of allowance). Indeed, the examiner stated that the "prior art of record does not
6 explicitly teach or fairly suggest, either individually or in combination, file type and file
7 extension of the files are two entities and blocking or not blocking the attempted download
8 according to a decision output of a blocking decision module of the network device which
9 receives as inputs the URL category and the file type, wherein (i) if the URL category indicates
10 a blacklist, the decision output is to block the download, (ii) if the URL category indicates a
11 whitelist, the decision output is to allow the download, otherwise, the URL category specifies a
12 URL content category indicating a type of content provided by the URL, and the decision output
13 is based on whether files of said file type are permitted for URLs in the URL content category,"
14 as described and claimed in the '446 Patent. *Id.* at 33.

15 72. On information and belief, Zscaler directly infringes one or more claims of the
16 '446 Patent, either literally or under the doctrine of equivalents. Non-limiting examples of such
17 infringement are provided below, based on the limited information currently available to
18 Symantec.

19 73. Claim 1 of the '446 Patent recites as follows:

20 A method, comprising:

21 intercepting at a Uniform Resource Locator (URL) filter module of a
22 network device, an attempted download of a file from a URL;

23 categorizing by the URL filter module of the network device the URL
24 into a URL category according to a URL database;

25 analyzing by a file type identifier module of the network device the file to
26 determine its file type, wherein the file type of the file is determined by detecting
27 one or more of a file type signature in the file and a file extension of the file, and
28 identifying the file type of the file based on one or more of the file type signature
detected in the file and the file extension of the file; and

blocking or not blocking the attempted download according to a decision
output of a blocking decision module of the network device which receives as

1 inputs the URL category and the file type, wherein (i) if the URL category
2 indicates a blacklist, the decision output is to block the download, (ii) if the URL
3 category indicates a whitelist, the decision output is to allow the download,
4 otherwise, the URL category specifies a URL content category indicating a type
of content provided by the URL, and the decision output is based on whether files
of said file type are permitted for URLs in the URL content category.

5 74. On information and belief, the Zscaler cloud security platform satisfies each and
6 every limitation of Claim 1. Zscaler's cloud security platform, including its ZEN component,
7 intercepts at a Uniform Resource Locator (URL) filter module of a network device, an attempted
8 download of a file from a URL. For example, Zscaler's ZEN component inspects files being
9 returned from an Internet host (e.g., www.google.com) to a client. Zscaler's cloud security
10 platform, including its ZEN component, categorizes by the URL filter module of the network
11 device the URL into a URL category according to a URL database. For example, Zscaler's ZEN
12 categorizes URLs into URL categories (e.g., the classes, supercategories, or categories used in
13 URL filtering) according to a URL database (e.g., the global URL category database). Zscaler's
14 cloud security platform, including its ZEN component and its File Type Analysis module,
15 analyzes by a file type identifier module of the network device the file to determine its file type,
16 wherein the file type of the file is determined by detecting one or more of a file type signature in
17 the file and a file extension of the file. For example, Zscaler's ZEN component analyzes files,
18 such as attachments to e-mails or HTTP transactions, to detect the file type (e.g., executable,
19 Office document, archive file, image, audio, video, etc.) by scanning the files to determine the
20 file extension (e.g., .exe, .scr, etc.). Zscaler's cloud security platform, including its ZEN component,
21 identifies the file type of the file based on one or more of the file type signature detected in the file and
22 the file extension of the file. As discussed above, for example, Zscaler's ZEN identifies file type by
23 scanning a file to determine the file's extension. Zscaler's cloud security platform, including its ZEN
24 component, blocks or does not block the attempted download according to a decision output of a
25 blocking decision module of the network device which receives as inputs the URL category and the file
26 type. As noted above, for example, the Zscaler's ZEN knows a URL category and a file type.
27 The ZEN will output a decision that either blocks or does not block an attempted download. If
28 the ZEN's File Type Policy specifies a URL category as a blacklist, the ZEN's decision is to

1 block the download. For example, the ZEN may block particular types of files within the
2 webmail URL category if the URL is blacklisted. Alternatively, the ZEN's File Type Policy
3 may indicate that the URL category is whitelisted and not block the download. Otherwise, the
4 URL category specifies a URL content category indicating a type of content provided by the
5 URL, and the decision output is based on whether files of said file type are permitted for URLs
6 in the URL content category. Zscaler utilizes URL content categories in the form of classes,
7 supercategories, and categories. For example, Zscaler utilizes a class of legal liability, a
8 supercategory of adult material, and a category of adult themes. If the File Type Policy does not
9 specify that the file type is allowed or blocked for a particular URL category, the ZEN
10 determines if files of the particular file type are permitted for URLs in the particular URL
11 content category. For example, if no File Type Policy is specified for executable files
12 downloaded from adult themed websites, the ZEN determines whether to block or allow the
13 download based on whether downloading executable files is permitted for URLs within the adult
14 themed URL content category.

15 75. In view of the foregoing, Zscaler directly infringes the '446 Patent in violation of
16 35 U.S.C. § 271(a).

17 76. On information and belief, both by configuring the ZEN component to operate in
18 a manner that Zscaler knows infringes the '446 Patent and by encouraging customers to use the
19 ZEN component in a manner that Zscaler knows infringes the '446 Patent, Zscaler is inducing
20 infringement of the '446 Patent by its customers in violation of 35 U.S.C. § 271(b), at least as of
21 service of this complaint. For example, Zscaler's marketing literature touts functionality of the
22 ZEN component that falls within the scope of the above-identified claims of the '446 Patent.

23 77. Symantec has no adequate remedy at law for Zscaler's acts of infringement. As a
24 direct and proximate result of Zscaler's acts of infringement, Symantec has suffered and
25 continues to suffer damages and irreparable harm. Unless Zscaler's acts of infringement are
26 enjoined by this Court, Symantec will continue to be damaged and irreparably harmed.

27 78. Zscaler without authority supplied or caused to be supplied in or from the United
28 States all or a substantial portion of the components of the invention of the '446 Patent, where

1 such components are uncombined in whole or in part, in such manner as to actively induce the
2 combination of such components outside of the United States in a manner that would infringe
3 the patents if such combination occurred within the United States. For example, Zscaler's Cloud
4 Security Platform relies upon world-wide data centers. *See, e.g.*, Zscaler, Cloud Architecture
5 Security as a Service, available at [https://www.zscaler.com/products/cloud-architecture-security-
6 as-a-service](https://www.zscaler.com/products/cloud-architecture-security-as-a-service). Zscaler uses servers to enforce security policies in each of the world-wide data
7 centers. *Id.* Zscaler has supplied servers from the United States and installed those servers in
8 foreign data centers. *See, e.g.*, Zscaler, Cloud Enforcement Node Ranges, available at
9 <https://ips.zscaler.net/cenr>. Zscaler separately transmits its compiled source code from the
10 United States to the servers at data centers outside of the United States. Zscaler actively induces
11 the combination of the servers and the compiled source code at foreign data centers. Zscaler,
12 without permission from Symantec, supplied and/or caused to be supplied in or from the United
13 States all or a substantial portion of the hardware and/or software components of the Zscaler
14 platform (e.g., servers and/or compiled source code), which infringes the '446 Patent, where
15 such components were uncombined in whole or in part, in such manner as to actively induce the
16 combination of such components outside of the United States (e.g., at Zscaler foreign data
17 centers) in a manner that would infringe the patents if such combination occurred within the
18 United States. In view of the foregoing, the Zscaler Platform infringes the '446 Patent in
19 violation of 35 U.S.C. § 271(f)(1).

20 79. Zscaler without authority supplied or caused to be supplied in or from the United
21 States at least one component of the '446 patented invention that is especially made or especially
22 adapted for use in the '446 patented invention and not a staple article or commodity of
23 commerce suitable for substantial noninfringing use, where such component is uncombined in
24 whole or in part, knowing that such component is so made or adapted and intending that such
25 component will be combined outside of the United States in a manner that would infringe the
26 patent if such combination occurred within the United States. For example, Zscaler's Cloud
27 Security Platform relies upon world-wide data centers. Zscaler, Cloud Architecture Security as a
28 Service, available at <https://www.zscaler.com/products/cloud-architecture-security-as-a-service>.

1 Zscaler uses servers to enforce security policies in each of the world-wide data centers. *Id.*
2 Zscaler has supplied servers from the United States and installed those servers in foreign data
3 centers. *See, e.g.,* Zscaler, Cloud Enforcement Node Ranges, available at
4 <https://ips.zscaler.net/cenr>. Zscaler separately transmits its compiled source code from within
5 the United States to the servers in data centers outside of the United States intending to combine
6 the source code with servers in the foreign data centers. Zscaler, without permission from
7 Symantec, supplied and/or caused to be supplied in or from the United States hardware and/or
8 software components (e.g., servers and/or compiled source code) of the Zscaler Platform that—
9 as Zscaler knows—are especially made or especially adapted for use in the '446 patented
10 invention and are not a staple article or commodity of commerce suitable for substantial non-
11 infringing use, where such components were uncombined in whole or in part, intending that the
12 hardware and/or software components of the Zscaler Cloud Security Platform will be combined
13 outside of the United States (e.g., at Zscaler foreign data centers) in a manner that would
14 infringe the patents if such combination occurred within the United States. In view of the
15 foregoing, the Zscaler Platform infringes the '446 Patent in violation of 35 U.S.C. § 271(f)(2).

16 **Count III – Infringement of U.S. Patent No. 8,402,540**

17 80. Symantec incorporates by reference the allegations in Paragraphs 1 through 152
18 above.

19 81. The '540 Patent is generally directed to improved computer, network, and web
20 security. *See* Ex. F, '540 Patent at Col. 1:66 – 2:3; *see also id.* at 3:14-20.

21 82. The inventors of the '540 Patent identified a growing technological problem with
22 the way Web and network security was being implemented in the early-to-mid 2000s. At the
23 time of the filing of the '540 Patent, existing web security systems suffered from technical
24 shortcomings based on those systems' failures to address the evolving use of the Internet and
25 growing prominence of a mobile workforce (i.e., “remote site connectivity”). *See id.* at 2:52-55.
26 The prior approaches of dealing with the “disparate threats” facing a network (e.g., “viruses,
27 attacks by hackers, spyware, phishing, spam, intrusion onto a computer network by unauthorized
28 users, and others”), such as providing a number of different products “that separately

1 address[ed] each of the most prevalent type of threats” or “monolithic networking hardware”
2 systems that “joined together” products that “address each of the most prevalent type of threats,”
3 were still “hardwired to provide a set of services.” *Id.* at 2:5-18, 2:33-37.

4 83. The inventors of the '540 Patent had the foresight to understand how the
5 Internet's influence in the business landscape would affect web security. By the early 2000s,
6 companies were depending “upon the Internet for additional business-critical activities like
7 supply chain integration, long-distance communications, and remote site connectivity.” *Id.* at
8 2:52-55. However, “each Internet-based endeavor potentially open[ed] another door to outside
9 hackers and malicious code attacks.” *Id.* at 2:55-57. External web access to information on a
10 network, however, was critical to the efficient and effective workings of enterprises.” *Id.* at
11 4:25-26. “Employees, partners, customers, and remote users need timely access using a wide
12 variety of communication methods and devices from all locations. Additionally, the
13 confidentiality [sic] and integrity of network resources such as intellectual property,
14 competitively advantaged data, regulated or personal data must be maintained in this open
15 environment. However, threats of attack, intrusion, and espionage may come in a wide variety
16 of forms such as spyware, keystroke loggers, and Trojans, while malware such as worms and
17 viruses must also be detected and prevented.” *Id.* at 4:26-36. The '540 Patent recognized that
18 “[n]etwork security management involves balancing a complex array of network participant
19 needs,” and that “[p]roviding a network security solution that effectively delivers all of one
20 participant's access needs may impose constraints on one or many other participants' needs such
21 as making critical aspects of the network vulnerable to intrusions.” *Id.* at 4:37-51.

22 84. A potential solution is to physically segment the network using multiple network
23 management devices. However, “[s]ince all, or nearly all of the data accessed and used by
24 internal users, external users, clients, servers, vendors, and the like passes through an
25 organization's network, segmenting the network to address the various needs of the network
26 participants can be costly because of the substantial expense associated with hardware security
27 facilities.” *Id.* at 4:52-57. Moreover, “segmenting may not relieve the constraints sufficiently to
28 justify this expense” and “management of segmented, network management devices increases

1 complexity which may create new opportunities for segments being vulnerable to intrusion.” *Id.*
2 at 4:57-62. Thus, physically segmenting network participants is “neither practical nor in most
3 cases possible while still delivering effective business solutions throughout the network.” *Id.* at
4 4:63-65. These are problems that specifically arise in computer networks.

5 85. Accordingly, the inventors of the ’540 Patent understood the technical need for
6 “more effective unified threat management techniques” (*Id.* at 3:6-10) while providing a web
7 security solution that was adapted to protect expanding networks and user productivity. *Id.* at
8 3:6-10. *See also id.* at 2:50-52 (“Companies’ computing systems are more interconnected than
9 ever, with the promise that network expansion will only continue.”); 2:61-63 (“[C]ompanies
10 must grapple with how to keep their network safe, without sacrificing growth or productivity.”).
11 The inventors of the ’540 Patent recognized that “[a]n approach to allow managed separation of
12 aspects of a network security system based on participant criteria may include virtualization of
13 the network.” *Id.* at 4:67-5:2. As described in the ’540 Patent, network virtualization
14 advantageously allows one or more participants (or participant types) to be “logically connected
15 to the network through a virtual network connection within a network security system,” such as
16 a flow processing system implemented at a proxy server. *Id.* at 5:2-6; 21:3-24.

17 86. The inventors of the ’540 Patent developed a virtualized network security system
18 (VNSS) that provides security policies to data flows received at the VNSS, as well as methods
19 for securing a plurality of virtual networks with a VNSS and configuring virtual network
20 security in a VNSS. These systems and methods were and are a significant improvement over
21 (and patentably distinct from) prior approaches to network security. *See Ex. P.*, ’540 Patent
22 Prosecution History, at 1148-1156 (notice of allowance). The ’540 Patent explains that the
23 VNSS may provide security policies “regardless of the physical arrangement of the network.”
24 *Ex. F.*, ’540 Patent at 85:42-45. For example, users may connect to the VNSS using the Internet,
25 a VPN, or other wireless connection. *See id.* at 85:57-62. The virtualization may be applied “to
26 provide a logical arrangement of policies, networks, behavioral analyses, applications” and
27 combinations thereof to enable the flow processing facility to “provides its features and
28 functions in ways that are logically beneficial or convenient; logically tailored to data flows or to

1 users of data flows; [and] consistent with an abstract and logical model (as opposed to a literal
2 and physical model).” *Id.* at 21:49-57.

3 87. Unlike existing approaches, the virtualized nature of the ’540 Patent’s security
4 system allows the VNSS to provide a logical arrangement of security policies without having to
5 physically separate the data flow as was required by prior art systems relying on multiple
6 disparate components to provide security. *See id.* at 21:49-52. For example, virtualization may
7 present a server computing facility with “different policies, networks, behavioral analyses,
8 applications, and so on than it provides to a network-connected computing facility.” *Id.* at
9 21:57-61. The ’540 Patent explains that the flow processor may identify a specific data flow
10 coming from a participant and “logically route” the flow “to a virtual network [] associated with
11 that participant” at which point a specific security policy may be applied to the virtual network.
12 *Id.* at 86:26-35.

13 88. For example, two servers may each communicate with a database over the
14 network. If the network were physically segmented, “such as with a network security appliance
15 physically residing between the servers and the database, both servers may be subjected to one
16 intrusion detection and prevention policy.” *Id.* at 85:37-42. However, using the “virtualized
17 network security system” described and claimed in the ’540 Patent, multiple virtual networks
18 connected to the database can be supported, regardless of the physical arrangement of the
19 network. *Id.* at 85:42-45. Advantageously, “each of the servers in this example may be
20 connected to the database through different virtual networks,” and “[t]he security policy on each
21 of the virtual networks may be different and, perhaps, a function of the server’s identity.” *Id.* at
22 85:45-49.

23 89. This inventive approach is captured in at least in Claims 1, 6, and 13 of the ’540
24 Patent, and their respective dependent claims. The claimed approaches are tied to computers
25 and cannot be performed by a human alone. For example, Claim 13 recites “[a] virtualized
26 network security system (VNSS)” comprising “a plurality of flow processing facilities
27 configured as elements of the VNSS for processing a data flow . . . comprising subscriber profile
28 data,” “a first security policy for a first virtual network,” “a second security policy for a second

1 virtual network,” in which “the plurality of flow processing facilities make a first determination,
2 in accordance with one of the first security policy and the second security policy, of
3 abnormalities that are associated with the data flow, the first determination based at least in part
4 on the subscriber identified by the subscriber profile data” and “the plurality of flow processing
5 facilities make a second determination, in accordance with one of the first security policy and
6 the second security policy, based at least in part on the subscriber identified by the subscriber
7 profile data.”

8 90. These claim elements, individually or in combination, are unconventional, and
9 nothing in the specification describes these concepts as well-understood, routine, or
10 conventional. To the contrary, the specification describes that prior approaches to network
11 security failed to provide “a network security solution that effectively delivers all of one
12 participant’s access needs” without imposing “constraints on one or many other participants’
13 needs.” *See id.* at 4:47-57. Potential approaches such as physically segmenting the network
14 were “costly because of the substantial expense associated with hardware security facilities” (*Id.*
15 at 4:52-57), did “not relieve the constraints sufficiently to justify this expense,” and increased
16 management complexity in a manner that created opportunities for segments being vulnerable to
17 intrusion. *Id.* at 4:57-62. Thus, for example, the elements of a “[a] virtualized network security
18 system (VNSS)” comprising “a plurality of flow processing facilities configured as elements of
19 the VNSS for processing a data flow . . . comprising subscriber profile data,” “a first security
20 policy for a first virtual network,” “a second security policy for a second virtual network,” in
21 which “the plurality of flow processing facilities make a first determination, in accordance with
22 one of the first security policy and the second security policy, of abnormalities that are
23 associated with the data flow, the first determination based at least in part on the subscriber
24 identified by the subscriber profile data” and “the plurality of flow processing facilities make a
25 second determination, in accordance with one of the first security policy and the second security
26 policy, based at least in part on the subscriber identified by the subscriber profile data” captured
27 an unconventional approach to network security that was unknown in the field before the
28

1 invention of the '540 Patent. These claimed concepts solve the problems described above and
2 provide the advantages and improvements to computers described below.

3 91. Notably, the claimed inventions of the '540 Patent do not foreclose alternative
4 approaches to network security. That the claimed inventions of the '540 Patent do not foreclose
5 alternative approaches to network security is evidenced by the substantial number of patents that
6 have issued after the disclosure of the '540 Patent had been considered during prosecution of
7 those patents. For example, on information and belief at least 155 U.S. Patents have issued after
8 the disclosure of the '540 Patent was considered during prosecution. *See Ex. W.* Thus, rather
9 than preclude all approaches to network security, the claimed inventions of the '540 Patent are
10 novel techniques that offered significant technical advantages over alternative approaches, as
11 described in more detail below.

12 92. The inventions described and claimed in the '540 Patent improve the functioning
13 of the computer networks in which they are implemented. For example, prior to the invention of
14 the '540 Patent, network security systems could not effectively meet all of one participant's
15 access needs without imposing constraints on one or many other participants' needs such as
16 making critical aspects of the network vulnerable to intrusions. *See id.* at 4:47-51. The
17 inventions described and claimed in the '540 Patent solved these problems and thereby
18 improved the functioning of the networks in which they were implemented by enabling
19 "managed separation of aspects of a network security system based on participant criteria"
20 through virtualization of the network. *Id.* at 4:67-5:2. The network virtualization achieved by
21 the solutions claimed in the '540 Patent allowed "one or more participants (or participant types)
22 to be logically connected to the network through a virtual network connection within a network
23 security system such as the flow processing facility." *Id.* at 5:2-6. Unlike prior approaches, the
24 virtualized network security system described and claimed in the '540 Patent can be applied "to
25 provide a logical arrangement of policies, networks, behavioral analyses, applications, any and
26 all combinations of the foregoing, and so on" and enable the flow processing facility "to provide
27 its features and functions in ways that are logically beneficial or convenient; logically tailored to
28 data flows or to users of data flows; consistent with an abstract and logical model (as opposed to

1 a literal and physical model); and so forth.” *Id.* at 21:49-57. Thus, unlike physically segmenting
2 the network, the claimed virtualized network security system permits different policies,
3 networks, behavioral analyses, applications, and so on to be applied to different servers or
4 network-connected computing facilities. *See id.* at 21:57-61.

5 93. The inventions described and claimed in the ’540 Patent offered a number of
6 additional technical advantages over prior approaches to network security. As one example, the
7 claimed virtualized network security system (and methods of securing and configuring such a
8 virtualized network security system) reduce or eliminate the substantial expense associated with
9 the hardware security facilities required to physically segment a network and avoid the resulting
10 complexity that may leave segments vulnerable to intrusion. *See id.* at 4:52-62.

11 94. As another example, the virtualized network security system described and
12 claimed in the ’540 Patent advantageously enables the logical arrangements to be “tailored to the
13 data flows; consistent with a wieldy, logical model (as opposed to an unwieldy, physical
14 model).” *Id.* at 85:23-26. A further improvement afforded by the virtualization is that “the
15 logical arrangements may be applied programmatically, automatically, and/or transparently with
16 respect to a source and/or sink (i.e. a transmitting computing facility and/or a receiving
17 computing facility) of the data flows,” and the virtualization may be provided with respect to a
18 data flow as a function of the source and/or destination IP address of the data flow.” *Id.* at
19 85:26-34.

20 95. As another example, “[v]irtualization of a networked security deployment may
21 also be used to share network security hardware resources such as a firewall among otherwise
22 separate networks.” *Id.* at 87:14-16. Associating each separate network with a virtual network
23 allows a network administrator or owner to define a security policy for their network and have
24 the defined security policy applied to network traffic associated with their virtual network. *See*
25 *id.* at 87:14-21. Advantageously, the claimed invention of the ’540 Patent allows many different
26 kinds of network configurations to be virtualized, such as “individual enterprises leasing security
27 from a security provider.” *Id.* at 87:21-24.

1 96. As another example, virtualization of network security also facilitates
2 improvements in network security. For example, a development virtual network that mirrors a
3 user virtual network may be defined such that internet traffic for the user virtual network also
4 propagates to the development virtual network. *See id.* at 88:11-16. The security policy for the
5 development virtual network can be updated with experimental intrusion prevention techniques
6 that are being tested without causing intrusion or false rejects on the user virtual network. *See*
7 *id.* at 88:16-19.

8 97. As another example, virtualization of network security facilitates “load balancing
9 of resources within a flow processing facility” by enabling data flow associated with one virtual
10 network to be routed to one of a plurality of application processor modules while routing data
11 flow associated with another virtual network to another application processor module. *See id.* at
12 88:20-25.

13 98. The approaches described and claimed in the ’540 Patent represented a
14 significant advance over the prior approaches to network security that were not well-known,
15 routine, or conventional in the field at the time the application which lead to the ’540 Patent was
16 filed. On information and belief, during examination of the application which ultimately issued
17 as the ’540 Patent, the patent examiner at the USPTO considered at least 64 U.S. and foreign
18 patent documents, as well as 31 other publications. *See id.* at Cover Page. *See also* Ex. P, ’540
19 Patent Prosecution History, at 821, 823-833, 951-952, 954-960, 1157-1161, 1163-1177, 1214-
20 1217, 1227-1228, 1238-1239, 1246 (describing search results and references considered). These
21 include references describing solutions from Microsoft Corporation, IBM, Fujitsu, and Lucent
22 Technologies, amongst others. The patent examiner determined that none disclosed or rendered
23 obvious the inventions of the ’540 Patent. *See* Ex. P, ’540 Patent Prosecution History, at 1148-
24 1156 (notice of allowance). Indeed, the examiner stated that the “closest” prior art “fails to
25 teach or suggest ‘processing the data flow received at said first port for the first and second
26 virtual networks through at least one of the plurality of flow processor processors, wherein
27 portions of the data flow that are associated with the first virtual network are processed
28 according to the first security policy, and wherein portions of the data flow that are associated

1 with the second virtual network are processed according to the second security policy, said
2 processing further comprising: making a first determination, in accordance with one of the first
3 security policy and the second security policy, of abnormalities that are associated with the data
4 flow, the first determination based at least in part on the subscriber identified by the subscriber
5 profile data; and making a second determination, in accordance with one of the first security
6 policy and the second security policy, based at least in part on the subscriber identified by the
7 subscriber profile data, and transferring said data flow to said second port,” as described and
8 claimed in the ’540 Patent. *Id.* at 1153-1154.

9 99. On information and belief, Zscaler directly infringes one or more claims of the
10 ’540 Patent, either literally or under the doctrine of equivalents. Non-limiting examples of such
11 infringement are provided below, based on the limited information currently available to
12 Symantec.

13 100. Claim 13 of the ’540 Patent recites as follows:

14 A virtualized network security system (VNSS) comprising:

15 a plurality of flow processing facilities configured as elements of the
16 VNSS for processing a data flow, said data flow being transferred between a first
17 port and a second port of the VNSS, the data flow comprising subscriber profile
data;

18 a network management facility that is networked with the plurality of
flow processing facilities; and

19 a first security policy for a first virtual network, based at least in part on
20 the subscriber profile data included in the data flow;

21 a second security policy for a second virtual network, based at least in
22 part on the subscriber profile data included in the data flow, wherein the two or
23 more flow processing facilities receive at least one of the first security policy and
the second security policy while receiving said data flow on said plurality of first
24 ports and transferring said data flow to said plurality of second ports,

25 wherein the plurality of flow processing facilities make a first
26 determination, in accordance with one of the first security policy and the second
27 security policy, of abnormalities that are associated with the data flow, the first
28 determination based at least in part on the subscriber identified by the subscriber
profile data; and

1 wherein the plurality of flow processing facilities make a second
2 determination, in accordance with one of the first security policy and the second
3 security policy, based at least in part on the subscriber identified by the
4 subscriber profile data.

5 101. On information and belief, the Zscaler cloud security platform satisfies each and
6 every limitation of at least Claim 13. Zscaler's cloud security platform, including its ZEN
7 component, implements policy enforcement by providing a VNSS. For example, Zscaler's
8 cloud security platform creates a global network that acts as a single virtual proxy. Zscaler's
9 cloud security platform, including its ZEN component, includes a plurality of flow processing
10 facilities that are configured as elements of the VNSS for processing a data flow, and the data
11 flow is transferred between a first port and a second port of the VNSS. As an example,
12 Zscaler's ZEN component uses multiple security analysis engines to analyze traffic. Once
13 traffic reaches the ZEN component, the security analysis engines scan the content using, for
14 example, Zscaler's ByteScan technology. Zscaler's cloud security platform, including its ZEN
15 component, also includes a network management facility that is networked with the plurality of
16 flow processing facilities. As an example, Zscaler's cloud security platform, including its CA
17 component, communicates with the ZEN component and directs traffic to the ZEN component.
18 Zscaler's cloud security platform, including its ZEN component, includes a first security policy
19 for a first virtual network, which is based at least in part on the subscriber profile data included
20 in the data flow, and also includes a second security policy for a second virtual network, based at
21 least in part on the subscriber profile data included in the data flow. For example, Zscaler's
22 cloud security platform, including its ZEN component, supports group and user policies being
23 provisioned on the Zscaler database to enable Zscaler's cloud security platform, including its
24 ZEN component, to authenticate the user. Enabling authentication allows Zscaler's cloud
25 security platform, including the ZEN component, to identify the traffic that it receives so it can
26 enforce the configured group and user policies. Zscaler's cloud security platform, including its
27 ZEN component, also enforces policies with user-level granularity based on defining the policies
28 according to a user or a group. Zscaler's cloud security platform, including the ZEN
component, includes two or more flow processing facilities that receive at least one of the first

1 security policy and the second security policy while receiving the data flow on the plurality of
2 first ports and transferring the data flow to the plurality of second ports. For example, Zscaler's
3 cloud security platform, including its ZEN component, receives the content and enforces the
4 security policies served by the CA to implement the group and user policies. Zscaler's cloud
5 security platform includes multiple ZEN components, and the ZEN component includes multiple
6 security analysis engines that scan the content according to the security policies. Zscaler's cloud
7 security platform, including the ZEN component, include the plurality of flow processing
8 facilities to make a first determination, in accordance with one of the first security policy and the
9 second security policy, of abnormalities that are associated with the data flow. For example,
10 Zscaler's cloud security platform, including its ZEN component, uses Zscaler's ByteScan
11 technology to inspect every byte of a request, content, responses, and all related data for inline
12 blocking threats like viruses, cross site scripting, and botnets. As another example, Zscaler's
13 cloud security platform, including its ZEN component, inspects all end user traffic through
14 Single Scan Multi Action technology to ensure security against current and emerging threats
15 based on the user provisioning. Single Scan Multi Action technology subjects the content to
16 every level of inspection unless malicious content is identified at a lower level. Using Zscaler's
17 cloud security platform, including its ZEN component, the first determination is based at least in
18 part on the subscriber identified by the subscriber profile data. The plurality of flow processing
19 facilities makes a second determination, in accordance with one of the first security policy and
20 the second security policy, based at least in part on the subscriber identified by the subscriber
21 profile data. As an example, Zscaler's cloud security platform, including its ZEN component,
22 inspects every byte of traffic inline across multiple security techniques and enforces compliance
23 according to granular user policies. Zscaler's cloud security platform may be configured to
24 enforce multiple security policies, including, but not limited to, web security, advanced threats,
25 and anti-virus and anti-spyware.

26 102. In view of the foregoing, Zscaler directly infringes the '540 Patent in violation of
27 35 U.S.C. § 271(a).
28

1 103. On information and belief, both by configuring the ZEN component to operate in
2 a manner that Zscaler knows infringes the '540 Patent and by encouraging customers to use the
3 ZEN component in a manner that Zscaler knows infringes the '540 Patent, Zscaler is inducing
4 infringement of the '540 Patent by its customers in violation of 35 U.S.C. § 271(b), at least as of
5 service of this complaint. For example, Zscaler's marketing literature touts functionality of the
6 ZEN component that falls within the scope of the above-identified claims of the '540 Patent.

7 104. Symantec has no adequate remedy at law for Zscaler's acts of infringement. As a
8 direct and proximate result of Zscaler's acts of infringement, Symantec has suffered and
9 continues to suffer damages and irreparable harm. Unless Zscaler's acts of infringement are
10 enjoined by this Court, Symantec will continue to be damaged and irreparably harmed.

11 105. Zscaler without authority supplied or caused to be supplied in or from the United
12 States all or a substantial portion of the components of the invention of the '540 Patent, where
13 such components are uncombined in whole or in part, in such manner as to actively induce the
14 combination of such components outside of the United States in a manner that would infringe
15 the patents if such combination occurred within the United States. For example, Zscaler's Cloud
16 Security Platform relies upon world-wide data centers. *See, e.g.*, Zscaler, Cloud Architecture
17 Security as a Service, available at [https://www.zscaler.com/products/cloud-architecture-security-](https://www.zscaler.com/products/cloud-architecture-security-as-a-service)
18 [as-a-service](https://www.zscaler.com/products/cloud-architecture-security-as-a-service). Zscaler uses servers to enforce security policies in each of the world-wide data
19 centers. *Id.* Zscaler has supplied servers from the United States and installed those servers in
20 foreign data centers. *See, e.g.*, Zscaler, Cloud Enforcement Node Ranges, available at
21 <https://ips.zscaler.net/cenr>. Zscaler separately transmits its compiled source code from the
22 United States to the servers at data centers outside of the United States. Zscaler actively induces
23 the combination of the servers and the compiled source code at foreign data centers. Zscaler,
24 without permission from Symantec, supplied and/or caused to be supplied in or from the United
25 States all or a substantial portion of the hardware and/or software components of the Zscaler
26 platform (e.g., servers and/or compiled source code), which infringes the '540 Patent, where
27 such components were uncombined in whole or in part, in such manner as to actively induce the
28 combination of such components outside of the United States (e.g., at Zscaler foreign data

1 centers) in a manner that would infringe the patents if such combination occurred within the
2 United States. In view of the foregoing, the Zscaler Platform infringes the '540 Patent in
3 violation of 35 U.S.C. § 271(f)(1).

4 106. Zscaler without authority supplied or caused to be supplied in or from the United
5 States at least one component of the '540 patented invention that is especially made or especially
6 adapted for use in the '540 patented invention and not a staple article or commodity of
7 commerce suitable for substantial noninfringing use, where such component is uncombined in
8 whole or in part, knowing that such component is so made or adapted and intending that such
9 component will be combined outside of the United States in a manner that would infringe the
10 patent if such combination occurred within the United States. For example, Zscaler's Cloud
11 Security Platform relies upon world-wide data centers. Zscaler, Cloud Architecture Security as
12 a Service, available at [https://www.zscaler.com/products/cloud-architecture-security-as-a-](https://www.zscaler.com/products/cloud-architecture-security-as-a-service)
13 [service](https://www.zscaler.com/products/cloud-architecture-security-as-a-service). Zscaler uses servers to enforce security policies in each of the world-wide data centers.
14 *Id.* Zscaler has supplied servers from the United States and installed those servers in foreign
15 data centers. *See, e.g.,* Zscaler, Cloud Enforcement Node Ranges, available at
16 <https://ips.zscaler.net/cenr>. Zscaler separately transmits its compiled source code from within
17 the United States to the servers in data centers outside of the United States intending to combine
18 the source code with servers in the foreign data centers. Zscaler, without permission from
19 Symantec, supplied and/or caused to be supplied in or from the United States hardware and/or
20 software components (e.g., servers and/or compiled source code) of the Zscaler Platform that—
21 as Zscaler knows—are especially made or especially adapted for use in the '540 patented
22 invention and are not a staple article or commodity of commerce suitable for substantial non-
23 infringing use, where such components were uncombined in whole or in part, intending that the
24 hardware and/or software components of the Zscaler Cloud Security Platform will be combined
25 outside of the United States (e.g., at Zscaler foreign data centers) in a manner that would
26 infringe the patents if such combination occurred within the United States. In view of the
27 foregoing, the Zscaler Platform infringes the '540 Patent in violation of 35 U.S.C. § 271(f)(2).
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BAKER BOTTS L.L.P.

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PRAYER FOR RELIEF

WHEREFORE, Symantec prays for judgment in its favor granting the following relief:

A. A finding that Zscaler has directly infringed and/or induced others to infringe the Patents-in-Suit;

B. An award of damages pursuant to 35 U.S.C. § 284 adequate to compensate Symantec for Zscaler’s infringement of the Patents-in-Suit, including both pre- and post-judgment interest and costs as fixed by the Court;

C. A preliminary and/or permanent injunction against Zscaler and its officers, agents, servants, employees, and representatives, and all others in active concert or participation with them, from further infringing the Patents-in-Suit;

D. A finding that Zscaler’s infringement of at least the ’429 Patent and ’446 Patent has been willful.

E. A declaration that this is an exceptional case within the meaning of 35 U.S.C. § 285, and a corresponding award of Symantec’s reasonable attorney fees incurred in connection with the litigation; and

F. Any additional and further relief the Court may deem just and proper under the circumstances.

JURY DEMAND

Pursuant to Federal Rule of Civil Procedure 38(b) and District of Delaware Local Rule 38.1, Plaintiffs hereby demand a trial by jury on all issues so triable

Dated: November 14, 2019

Respectfully submitted,
BAKER BOTTS L.L.P.

/s/ Kurt M. Pankratz
Kurt M. Pankratz

*Attorneys for Symantec Corporation
and Symantec Limited.*

CERTIFICATE OF SERVICE

The undersigned hereby certifies that the foregoing document was filed electronically in compliance with Local Rule CV-5(a) on November 14, 2019. As such, this document was served on all counsel who have consented to electronic service.

/s/ Kurt M. Pankratz
Kurt M. Pankratz

BAKER BOTTS L.L.P.

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