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9 *Attorneys for Plaintiff*
 IMPLICIT NETWORKS, INC.

10
 11 UNITED STATES DISTRICT COURT
 12 FOR THE NORTHERN DISTRICT OF CALIFORNIA
 13 SAN FRANCISCO DIVISION

14 IMPLICIT NETWORKS, INC.,
 15 Plaintiff,
 16 v.
 17 JUNIPER NETWORKS, INC.,
 18 Defendant.
 19

Case No. 3:10-cv-4234 SI

**FIRST AMENDED COMPLAINT AND
 DEMAND FOR JURY TRIAL**

1 Plaintiff Implicit Networks, Inc. (“Implicit” or “Plaintiff”) hereby files its complaint against
2 defendant Juniper Networks, Inc. (“Juniper” or “Defendant”), for patent infringement. For its
3 complaint, Plaintiff alleges, on personal knowledge as to its own acts and on information and belief
4 as to all other matters, as follows:

5 **PARTIES**

6 1. Implicit is a corporation organized under the laws of the State of Washington, with
7 its principal place of business in Seattle, Washington.
8

9 2. Juniper is a corporation organized under the laws of the State of Delaware, with its
10 principal place of business in Sunnyvale, California.

11 **JURISDICTION AND VENUE**

12 3. This complaint asserts a cause of action for patent infringement under the Patent
13 Act, 35 U.S.C. § 271. This Court has subject matter jurisdiction over this matter by virtue of 28
14 U.S.C. § 1338(a). Venue is proper in this Court by virtue of 28 U.S.C. § 1391(b) and (c) and 28
15 U.S.C. § 1400(b), in that Juniper may be found in this district, have committed acts of infringement
16 in this district, and a substantial part of the events or omissions giving rise to the claim occurred
17 and a substantial part of property that is the subject of the action is situated in this district.
18

19 4. This Court has personal jurisdiction over Juniper because Defendant has a place of
20 business in, and provides infringing products and services in, the Northern District of California.
21

22 **INTRADISTRICT ASSIGNMENT**

23 5. Pursuant to Civil LR 3-2(c), this case should be subject to district-wide assignment
24 because it is an Intellectual Property Action.

25 **I. STATEMENT OF FACTS.**

26 **A. Implicit’s Dynamic Data Flow Patent Family Patents: Implicit’s Inventions,**
27 **Patents, and Products.**

1 1. **The Problem Implicit Solved.**

2 6. In the early 1990's, personal computers were stand-alone devices, just like
3 typewriters before them. Consumers would buy shrink-wrapped software applications, such as
4 Lotus Notes or the Berkeley Systems "Flying Toasters" screensaver. They would install the
5 application, the application would run on the computer, and the consumer would use the computer
6 to perform discreet and well-defined tasks, typically turning on data and document processing.
7
8 Every computer was an island, unique unto itself.

9 7. All of this changed with the advent of computer networking, *i.e.*, computers hooked
10 together with other computers and, ultimately, other devices entirely. Suddenly, computers had to
11 be able to *talk* to other computers. With networking, computers moved from being standalone
12 devices for running discreet applications to being constituent parts of much larger linked systems.

13 8. This physical change brought a corresponding change in use and the content itself.
14 Computers became **communication** devices, allowing their users to exchange real-time text (e-
15 mail), interactive files (conferencing), and multi-media (photos; video). With the Internet,
16 hyperlinks, and the World Wide Web, computer users could shop online, create individual web
17 pages (Facebook), watch movies on demand (the new Netflix), and do all the other on-line
18 activities now commonplace. Instead of resources being applied to isolated data on non-networked
19 machines, computers could be linked together and resources applied to data as it flowed from one
20 system to the next. The shift was from processing **data** (spreadsheet; word processing) to
21 processing the **data flow**, *e.g.*, data in transit.
22

23 9. This paradigm shift created a host of new problems, however. In the mid-1990's,
24 for example, there were many different media formats (WAV; mpeg; Windows Media Video), each
25 calibrated to do different things and solve different problems; as the richness of what computers
26 could communicate increased, so too did the number of protocols for **how** to communicate. And,
27
28

1 along with media formats, there were formats for other forms of content, *e.g.* HTML, X HTML,
2 DHTML, etc.... More, there were numerous network protocols, including point-to-point (“PTP”),
3 SPX and IPX (proprietary protocols for Novell’s Network), Apple Talk, Microsoft’s NetBEUI, and
4 the telephony RTP standard. There were also different operating systems on computers, *e.g.*
5 Windows versus Mac vs. Linux, along with different devices (phones; computers; PDA’s; etc.)
6 with different protocols, needs, and capabilities. It was a three dimensional problem: *different*
7 *devices*, with *different networks*, sending *different content* – the “3D” problem.
8

9 **2. The “Vertical Application” Fix.**

10 10. The first solution to the 3D problem lay in building greater intelligence into the
11 applications themselves. For example, a media player in 1995 had to be able to digest different
12 types of formats (WAV; mpeg), and work on various operating systems, *e.g.* Windows and Mac
13 OS. The developer of the application had to anticipate who would be using the player, and for
14 which devices and content, and then build-in the ability to handle the anticipated demands. In
15 short, the developer had to anticipate **use** and then **configure** the design accordingly.
16

17 11. This model led to ever-increasing complexity, cost, and processing overhead. Given
18 that all anticipated uses had to be preconfigured at build-time, any **unanticipated** new use, *e.g.*, a
19 different format or a different device, would simply break the system. The developer had to have
20 the foresight to specify explicitly all possible configurations in advance, a difficult task in a rapidly
21 changing world.
22

23 12. Given these inherent inadequacies, there was a real need for a new and different
24 approach to solve the 3D problem.

25 **3. Implicit’s Solution.**

26 13. In 1994, Edward Balassanian was a computer scientist working on networking
27 issues at Microsoft. Microsoft was then promoting proprietary protocols and trying to establish a
28

1 proprietary standard. But, with the ever more diverse set of devices and demands, Mr. Balassanian
2 did not think that a monolithic, one size fits all approach would ultimately work. In February 1995,
3 he left Microsoft.

4 14. A year later, he founded Implicit Networks, then known as BeComm (hereafter
5 “Implicit”).

6 15. Mr. Balassanian created Implicit to build a radical new approach to networking – a
7 new solution to the 3D problem. Put simply, instead of stacking intelligence into the application,
8 Mr. Balassanian devised a system where every discrete computer function, *e.g.*, processing http
9 server requests over TCP/IP, streaming a video web-based client, or managing voice-over-ip calls,
10 would be built into a discrete software module, called a “bead.” Dynamically, at run-time, a
11 software engine would receive a stream of data --- say video --- determine **what** services were
12 necessary to render that content and **where** the content was to be rendered, and then assemble --- or
13 string together --- the requisite service beads (modules) at run-time. In this fashion, the needs at
14 run-time drove the just-in-time creation of the processing path itself, as against trying to stuff given
15 data into a stack previously hardwired into the application.
16
17

18 16. Any specific service could be encapsulated as a bead, including:

- 19 • **hardware** such as a video display, speaker, microphone, mouse, Ethernet, etc.
- 20 • **protocols** such as TCP/IP, HTTP, SOAP, email (POP3, SMTP), etc.
- 21 • **transformational algorithms** such as audio/video decoders, etc.
- 22 • **SDK technologies** such as speech-recognition engines (*e.g.*, IBM’s ViaVoice), text-
to-speech generators, etc.
- 23 • **backend services** such as Database, CRM, and Content Management Systems.

24 17. Ultimately, Implicit built more than 200 discrete software service beads. Beads
25 were the building blocks for the processing element applied to a data flow.

26 18. In this new model, services were designed from the outset to process data flows.
27 This meant that the intelligence engine picked the right services for the right data flows, managed
28

1 the “State” (*e.g.* status) associated with each data flow, and managed the flow across the services.
2 In this new system, the Lego blocks needed to process a particular data flow were assembled when
3 needed and as needed, as against the prior model, where the blocks were immutably glued together
4 at build-time.

5 19. The benefits of this new approach were significant: services were reusable,
6 processing faster and more efficient, and data that required more CPU involvement got it, when and
7 as needed. Mr. Balassanian called this system “Strings,” as discrete functions were strung together
8 at run-time.

9 20. The concept of breaking up applications into discrete services that could be “strung”
10 together on the fly at runtime was an innovation with profound applicability to real world problems.
11 It applied to media players since it allowed media encoding/decoding/transcoding to happen
12 adaptively at runtime. It applied to network stacks since it allowed network stacks to be responsive
13 to real-time changes in the physical network (*e.g.* QoS), transport (*e.g.* support for new protocols),
14 and application layers (*e.g.* virus threats, firewalls etc.).

15 21. Implicit made and sold products and technology to numerous large and sophisticated
16 customers. Implicit first had its Strings and Beads platform ready for commercial sale in January
17 2000, at the Consumer Electronics Show (“CES”) held that month in Las Vegas. From this date
18 forward, Implicit met with real success in the marketplace. For example, in 2000, Implicit signed a
19 contract to develop all the media processing code for Intel’s web tablet, a device very similar to
20 Apple’s new iPad. By 2001, Implicit had built the code, and Intel began to manufacture the device.
21

22 22. In January 2001, Intel signed a second contract with Implicit, under which Implicit
23 was to build all the software for the Intel equivalent of iTunes. As per this signed contract, Implicit
24 received \$850,000, plus a 5% revenue share going forward of all the Intel Consumer Products
25 Division related revenue.
26
27
28

1 23. In 2004, Intel hired Implicit to use its streaming technology to build the Intel media
2 player, a device that synchronized multiple computers in a home to play music and video, both
3 locally and over a network.

4 24. Along with these Intel contracts, in 2004, Implicit signed a contract with chip maker
5 AMD to develop a media player referenced design for AMD. Implicit built the media player, using
6 its technology, finishing in 2004.

7 25. Along the same lines, Thompson Multimedia hired Implicit to build all of the media
8 processing software for the first Thompson digital set-box that allowed for streaming of HD content
9 into the home. The resulting Implicit-Thompson set-box won Best of Show at the annual
10 Consumer Electronics Show (“CES”) in 2005.

11 26. Along the same lines, in 2003, Implicit built a distributed knowledge management
12 solution for Raytheon, using Strings technology. The solution allowed disparate databases to be
13 connected to a single user interface such that data was normalized on the fly by software
14 components. The system was used as part of a Raytheon product for knowledge discovery in the
15 defense sector.
16

17 27. In addition to these specific contractual relationships, Implicit, through its CEO and
18 others, met with numerous large technology companies to introduce them to the novel Implicit
19 technology. These companies included Cisco Systems, HP predecessor 3Com, Motorola, and
20 numerous others. All such technical discussions were conducted pursuant to respective NDA’s.
21

22 28. Implicit’s work, inventions, and patents were the subject of numerous articles in the
23 trade press. For example, in March, 2001, the EETimes reported on Implicit’s work with the Intel
24 Tablet, and specifically called out the Implicit patent portfolio, as follows:
25

26 Intel intends to introduce the tablet in North America later this
27 year. One technology that will make the Web Tablet stand out
28 among other Internet appliances is BeComm’s Strings. And by

1 extension, Strings could weave disparate distributed appliances
2 into a global peer-to-peer communications architecture.

3 ***

4 **Bead-dazzled**

5 While the Strings core has many similarities to traditional
6 operating systems, it is also significantly different. Strings
7 defines a new middleware layer of software focused on delivering
8 digital media to end users, rather than relying on hardware or
9 networks to deliver that media. To address the fluid nature of
10 Internet appliances, every Strings-based appliance is able to
11 dynamically generate the feature set needed to enable instant
12 access to content. Strings achieves this by leveraging highly
13 discrete software objects called Beads. Any Strings-enabled
14 appliance can instantly string together a series of Beads to
15 dynamically enable the required functionality. Since an appliance
16 can string Beads together across a network of appliances, the
17 functionality required to manage any given type of media can be
18 distributed across a network.

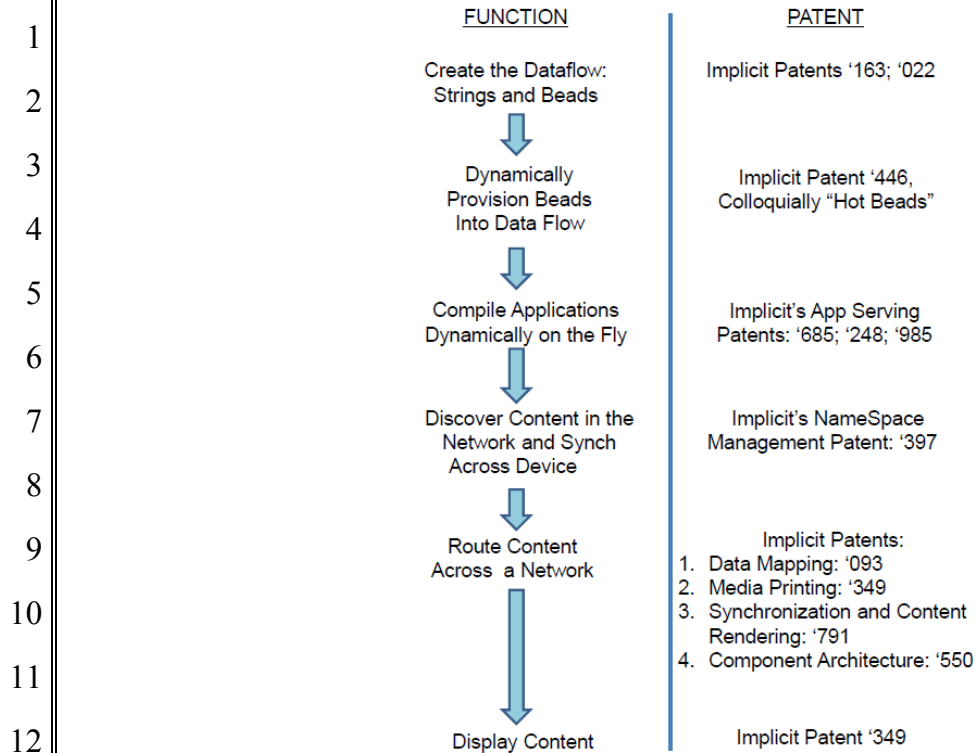
19 Strings provides an environment where users have instant access
20 to any type of content from any appliance. For example, a
21 handheld device with a screen, speaker and microphone could
22 provide access any content that can be rendered in audio or video
23 formats. This handheld could morph into an MP3 player, serve as
24 an Internet telephone, or function as a universal remote control.
25 That requires managing not only the appliance's user interface,
26 but also its interface to multimedia content as well, and to the
27 appliance's interface to the network.

28 **Complete infrastructure**

**To make this possible, Strings leverages a patented
technology that allows Beads to be strung together on the fly
to provide the precise functionality required by** the end user.
Since Beads can encapsulate everything from device drivers and
user interface components to multimedia codecs and network
protocols, Strings is able to provide a complete infrastructure for
intelligent appliances.

29 Emphasis added.

30 29. Implicit indeed did patent all of the core aspects of its String architecture. Captured
31 graphically by function, below is the portfolio:
32



30. As particularly germane to this Complaint, on September 30, 2003, United States Patent No. 6,629,163 ("the '163 patent") entitled "Method and System for Demultiplexing a First Sequence of Packet Components to Identify Specific Components Wherein Subsequent Components are Processed Without Re-Identifying Components," was duly and legally issued, and assigned to Plaintiff. On December 18, 2008, the '163 patent was put in re-exam. The '163 patent emerged from re-examination on June 22, 2010, carrying U.S. Patent No. 6,629,163. In its Reasons For Allowance, the PTO called out the novelty of the Implicit Dynamic Data Flow technology. It is assigned to Plaintiff, Implicit. True and correct copies of the '163 patent and the Ex Parte Reexamination Certificate are attached as Exhibit A and Exhibit B.

31. On October 31, 2007, Edward Balassanian filed a continuation application, which on May 4, 2010, issued as U.S. Patent No. 7,711,857 ("857"). Mr. Balassanian assigned the patent to Implicit and Implicit is the sole owner of the patent. *See* Exhibit C.

COUNT I**PATENT INFRINGEMENT**

1
2
3 32. On September 30, 2003, United States Patent No. 6,629,163 (“the ’163 patent”)
4 entitled “Method and System for Demultiplexing a First Sequence of Packet Components to
5 Identify Specific Components Wherein Subsequent Components are Processed Without Re-
6 Identifying Components” was duly and legally issued. A true and correct copy of the ’163 patent is
7 attached as Exhibit A. On June 22, 2010, an Ex Parte Reexamination Certificate was duly and
8 legally issued. A true and correct copy of the Reexamination Certificate is attached as Exhibit B.

9
10 33. On May 4, 2010, a continuation patent, United States Patent No. 7,711,857 (“the
11 ’857 patent”) entitled “Method and System for Data Demultiplexing” was duly and legally issued.
12 A true and correct copy of the ’857 patent is attached as Exhibit C.

13 34. Edward Balassanian is the sole inventor of the ’163 and ’857 patents (collectively
14 “Patents-in-Suit”). The Patents-in-Suit have been assigned to Plaintiff. Plaintiff Implicit is the sole
15 legal and rightful owner of the Patents-in-Suit.
16

Juniper’s Junos Operating System

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18 35. Juniper makes, uses, and sells in the United States many products that include its
19 infringing Junos operating system (“Junos OS”). Juniper makes, uses, and sells products that
20 infringe the Patents-in-Suit, such products including without limitation, the following Juniper
21 Networks’ products: EX Series Ethernet Switches, J Series Services Routers, JCS1200 Control
22 System, LN1000 Mobile Secure Router, M Series Multiservice Edge Routers, MX Series 3D
23 Universal Edge Routers, SRX Series Services Gateways, and T Series Core Routers.
24

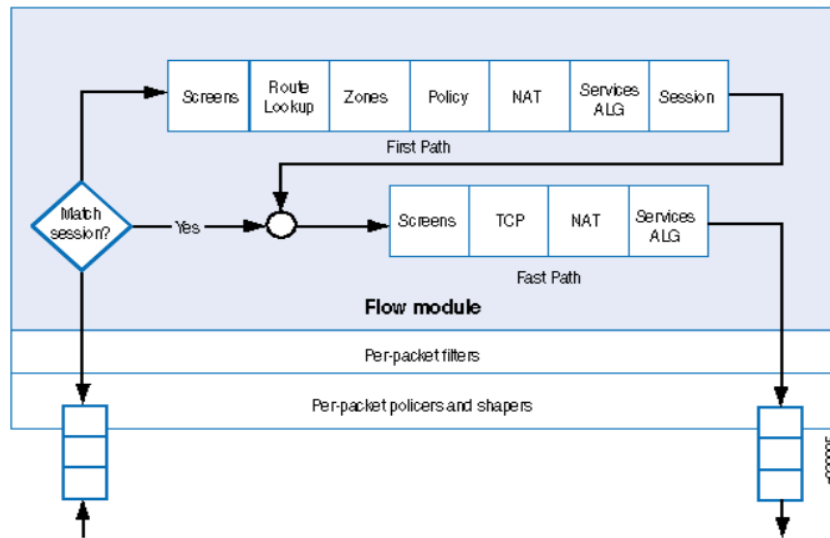
25 36. Junos OS is the operating system used in Juniper’s networking equipment. Junos OS
26 provides various data packet processing features like stateful firewall, Network Address Translation
27 (“NAT”), web authentication, IPsec services, application layer gateway (ALG) services and others.
28

1 Junos OS carries out packet inspection to determine the type of traffic and performs the appropriate
2 actions based on the type of traffic. Junos OS performs demultiplexing operations such as IP
3 defragmentation, TCP flow reassembly, flow blocking and flow state tracking on
4 incoming/outgoing packets at layers 2-7 of the TCP stack.

5 37. Junos OS dynamically identifies a sequence of actions to be performed on a data
6 packet flow on the basis of the first packet. The sequence of actions so identified is applied to all
7 the subsequent packets of the flow. The actions to be performed are determined using policies
8 maintained by the system. Junos OS inspects data packets, analyzes them against the various
9 policies and performs the appropriate actions as dictated by the applicable policies. Junos OS
10 performs de-multiplexing of data packets by reassembling datagrams fragmented over multiple
11 packets.
12

13 38. Whenever a data packet transits Juniper networking equipment running the Junos
14 OS, Junos OS performs a flow lookup to see if the packet belongs to an already established session.
15 If the packet does not belong to an existing session, a new session is created with the packet as the
16 first packet of the session. The system then analyzes the first packet to determine the various
17 actions to be performed on all the data packets of that session. The sequence of actions determined
18 on the basis of the first packet forms a fast processing path. All subsequent packets of the session
19 are then processed through the fast processing path.
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21 39. The following diagram from Juniper's Junos software security configuration Guide
22 shows the architecture of the Junos OS product:
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Juniper's WX And WXC Wan Optimization Products

40. Juniper makes, uses, and sells in the United States many products that include its infringing WX and WXC Series Framework. Juniper makes, uses, and sells products that infringe the Patents-in-Suit, such products including without limitation, the following Juniper WAN optimization products: WX and WXC Series Application Acceleration Platforms.

41. Juniper's WXC Series Framework performs compression and caching, acceleration, application control, and visibility. In applying acceleration techniques, each application data flow is individually identified and processed according to its own requirements. Microsoft Exchange data is treated differently than file transfers or web browsing. All of this is done in one integrated intelligent device that coordinates with other devices in the network to improve functionality based on dynamic feedback from each device. Continuous communication among WXC Series platforms dynamically update the entire network. Each device dynamically determines the services to be applied based on the traffic flow.

42. The product intercepts all IP traffic and inspect it to see if the flow matches any of the defined application policies. The inspection includes analyzing the type of content for application of quality of service requirements. For example, Citrix traffic looks indistinguishable at

1 layer 3, but by inspecting the actual payload, Juniper's WXC Series framework can distinguish
2 time-sensitive enterprise data from a simple print group. If a match is found, the WX Client will
3 tag the packets in the flow as eligible for optimization. After the packet is tagged for the
4 optimization, the optimization services to be applied are dynamically determined.

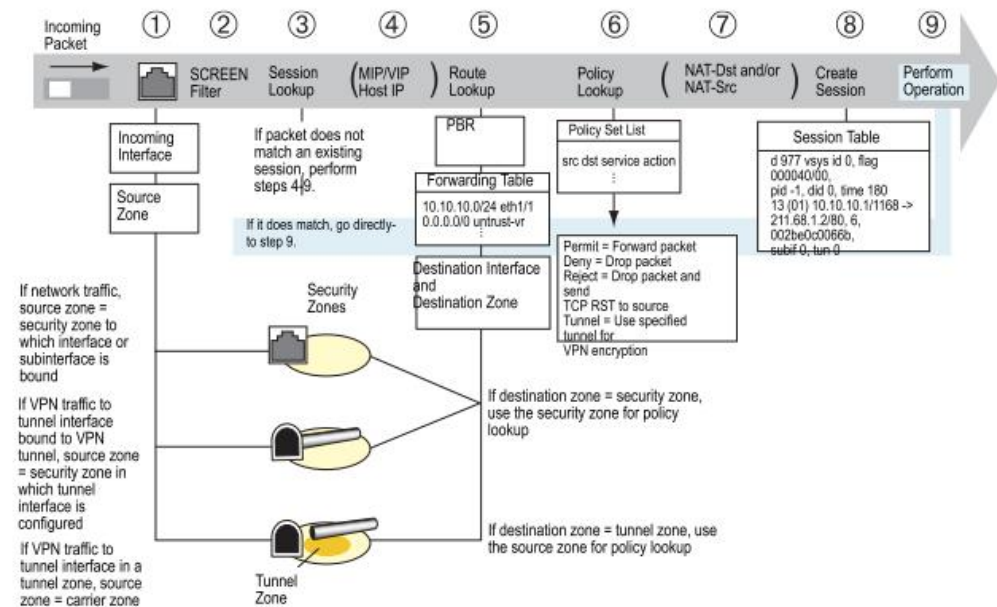
5 43. The WXC Series platforms, also permit enterprises to use multiple WAN links to for
6 example, run voice over IP protocol traffic over a private link, while sending email or bulk file
7 transfers over an Internet/VPN link. These routing choices can be changed dynamically, if for
8 example, performance on one of the links degrades past a threshold. Each of these features,
9 requires the data flow to be classified by deep packet inspection and processed by a sequence of
10 components that is not pre-defined.

12 **Juniper's ScreenOS**

13 44. Juniper makes, uses, and sells in the United States intrusion detection and prevention
14 products featuring its ScreenOS software, originally developed by NetScreen and acquired in 2004.
15 Juniper makes, uses, and sells products that infringe the Patents-in-Suit, such products including
16 without limitation, the following Juniper Networks' intrusion prevention products: SSG Devices,
17 ISG Devices, and NetScreen Devices.

19 45. ScreenOS begins the processing of a data flow by performing packet inspection.
20 The following graphic depicts the processing sequence:
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Figure 11: Packet Flow Sequence Through Security Zones



46. ScreenOS performs a flow lookup to see if the packet belongs to an already established session. If the packet does not belong to an existing session, a new session is created with the packet as the first packet of the session. The system then analyzes the first packet to determine the various actions to be performed on all the data packets of that session. A session is created based on the analysis of the first packet in the flow and a policy is selected by performing deep packet inspection. ScreenOS dynamically identifies a sequence of actions to be performed on a data packet flow on the basis of the first packet. The actions to be performed are determined using policies maintained by the system. ScreenOS inspects data packets, analyzes them against the various policies and performs the appropriate actions as dictated by the applicable policies. The remainder of the flow is processed based on the information obtained from the first packet.

47. Juniper makes, uses, and sells products that infringe the Patents-in-Suit, such products including, Junos OS, ScreenOS and WX and WXC Series Platforms, as alleged above.

48. In addition, Juniper has infringed and is still infringing the Patents-in-Suit in this country, through, *inter alia*, its active inducement of others to make, use, and/or sell the systems, products and methods claimed in one or more claims of the patents. Juniper's customers of Junos

1 OS, ScreenOS and WX and WXC Series products directly infringed the Patents-in-Suit, and were
2 induced to do so by Juniper. Juniper knows of the Patents-in-Suit and their contents, based upon,
3 *inter alia*, Juniper's actual notice of the patents. Juniper actively and knowingly encouraged, aided
4 and abetted its customers to directly infringe the Patents-in-Suit. Juniper offered its infringing
5 products for sale with the intent of promoting their use to infringe, and with that object, Juniper
6 intentionally encouraged its customers to infringe the Patents-in-Suit by advertising its products for
7 infringing uses, and instructing its customers how to use the products to engage in infringement.
8 Juniper specifically intended that its customers infringe the Patents-in-Suit. Juniper knew of the
9 Patents-in-Suit and of their contents, based upon, its actual notice of the patents. Juniper had
10 specific intent to encourage customers to infringe the Patents-in-Suit, and knew or should have
11 known that its actions would encourage customers to actually infringe the Patents-in-Suit. This
12 conduct constitutes infringement under 35 U.S.C. § 271(b).
13

14 49. In addition, Juniper has infringed and is still infringing the Patents-in-Suit in this
15 country through, *inter alia*, providing and selling goods and services including the infringing Junos
16 OS, ScreenOS and WX and WXC Series products designed for use in practicing one or more
17 claims of the Patents-in-Suit, where the goods and services constitute a material part of the
18 invention and are not staple articles of commerce, and which have no use other than infringing one
19 or more claims of the Patents-in-Suit. Juniper's customers commit the entire act of direct
20 infringement. Juniper has committed these acts with knowledge that the goods and services it
21 provides are specially made for use in a manner that directly infringes the Patents-in-Suit. This
22 conduct constitutes infringement under 35 U.S.C. § 271(c).
23

24 50. As a result of the infringement by Juniper, Plaintiff has been damaged, and will
25 continue to be damaged, until this Defendant is enjoined from further acts of infringement.
26
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1 51. Juniper will continue to infringe unless enjoined by this Court. Plaintiff faces real,
2 substantial and irreparable damage and injury of a continuing nature from infringement for which
3 Plaintiff has no adequate remedy at law.

4 WHEREFORE, Plaintiff prays for entry of judgment:

5 A. that the Patents-in-Suit patent is valid and enforceable;

6 B. that Defendant has infringed one or more claims of the Patents-in-Suit patent;

7 C. that Defendant account for and pay to Plaintiff all damages caused by the
8 infringement of the Patents-in-Suit patents, which by statute can be no less than a reasonable
9 royalty;

10 D. that Plaintiff be granted pre-judgment and post-judgment interest on the damages
11 caused to them by reason of Defendant's infringement of the Patents-in-Suit patent;

12 E. that this Court issue a preliminary and final injunction enjoining Juniper, its
13 officers, agents, servants, employees and attorneys, and any other person in active concert or
14 participation with them, from continuing the acts herein complained of, and more particularly,
15 that Juniper and such other persons be permanently enjoined and restrained from further
16 infringing the Patents-in-Suit;

17 F. that this Court require Defendant to file with this Court, within thirty (30) days
18 after entry of final judgment, a written statement under oath setting forth in detail the manner in
19 which Defendant has complied with the injunction;

20 G. that this be adjudged an exceptional case and the Plaintiff be awarded its
21 attorney's fees in this action pursuant to 35 U.S.C. § 285;

22 H. that this Court award Plaintiff its costs and disbursements in this civil action,
23 including reasonable attorney's fees; and
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1 I. that Plaintiff be granted such other and further relief as the Court may deem just
2 and proper under the current circumstances.

3 Dated: December 1, 2010

Respectfully submitted,

4
5 /s/ Spencer Hosie

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DEMAND FOR JURY TRIAL

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Plaintiff, by its undersigned attorneys, demands a trial by jury on all issues so triable.

Dated: December 1, 2010

Respectfully submitted,

/s/ Spencer Hosie

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