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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 F5 NETWORKS, INC.,
 18 Defendant.

Case No. C 10-3365 SI

**FIRST AMENDED COMPLAINT AND
 JURY DEMAND**

1 **I. INTRODUCTION.**

2 1. Plaintiff Implicit Networks, Inc. (“Implicit” or “Plaintiff”) hereby files its
3 complaint against defendant F5 Networks, Inc. (“F5” or “Defendant”) for patent
4 infringement. For its complaint, Plaintiff alleges, on personal knowledge as to its own
5 acts and on information and belief as to all other matters, as follows:

6 **THE PARTIES**

7
8 2. Plaintiff is a Washington corporation with its principal place of business in
9 Bellevue, Washington.

10 3. Defendant is a corporation organized under the laws of the State of
11 Washington. Defendant conducts business throughout the United States. It has a principal
12 office in this district.

13 **JURISDICTION**

14 4. This Court has subject matter jurisdiction pursuant to 28 U.S.C. § 1331 and
15 1338(a) because this action arises under the patent laws of the United States, including 35
16 U.S.C. § 271 et seq. The Court has personal jurisdiction over defendant in that defendant has
17 established minimum contacts with the forum. Defendant has marketed and sold infringing
18 products in this district, maintains an office in this district, and conducts research and
19 development activities in this district. The exercise of jurisdiction over said defendant would
20 not offend traditional notions of fair play and substantial justice.
21

22 **VENUE**

23
24 5. Defendant does business in this district, as alleged above in ¶ 4. Venue is
25 proper in this district pursuant to 28 U.S.C. § 1331, 1338(a), 1391(b), (c) and (d) and
26 1400(b).

27 **INTRADISTRICT ASSIGNMENT**

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

3 **II. STATEMENT OF FACTS.**

4 A. **Implicit's Dynamic Data Flow Patent Family Patents: Implicit's**
5 **Inventions, Patents, and Products.**

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

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

13
14 8. All of this changed with the advent of computer networking, *i.e.*, computers
15 hooked together with other computers and, ultimately, other devices entirely. Suddenly,
16 computers had to be able to *talk* to other computers. With networking, computers moved
17 from being standalone devices for running discreet applications to being constituent parts of
18 much larger linked systems.

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

3 10. This paradigm shift created a host of new problems, however. In the mid-
4 1990's, for example, there were many different media formats (WAV; mpeg; Windows
5 Media Video), each calibrated to do different things and solve different problems; as the
6 richness of what computers could communicate increased, so too did the number of protocols
7 for **how** to communicate. And, along with media formats, there were formats for other forms
8 of content, *e.g.* HTML, X HTML, DHTML, etc.... More, there were numerous network
9 protocols, including point-to-point ("PTP"), SPX and IPX (proprietary protocols for Novell's
10 Network), Apple Talk, Microsoft's NetBEUI, and the telephony RTP standard. There were
11 also different operating systems on computers, *e.g.* Windows versus Mac vs. Linux, along
12 with different devices (phones; computers; PDA's; etc.) with different protocols, needs, and
13 capabilities. It was a three dimensional problem: *different devices*, with *different networks*,
14 sending *different content* – the "3D" problem.
15
16

17 2. The "Vertical Application" Fix.

18 11. The first solution to the 3D problem lay in building greater intelligence into
19 the applications themselves. For example, a media player in 1995 had to be able to digest
20 different types of formats (WAV; mpeg), and work on various operating systems, *e.g.*
21 Windows and Mac OS. The developer of the application had to anticipate who would be
22 using the player, and for which devices and content, and then build-in the ability to handle
23 the anticipated demands. In short, the developer had to anticipate **use** and then **configure** the
24 design accordingly.
25

26 12. This model led to ever-increasing complexity, cost, and processing overhead.
27 Given that all anticipated uses had to be preconfigured at build-time, any **unanticipated** new
28

1 use, *e.g.*, a different format or a different device, would simply break the system. The
2 developer had to have the foresight to specify explicitly all possible configurations in
3 advance, a difficult task in a rapidly changing world.

4 13. Given these inherent inadequacies, there was a real need for a new and
5 different approach to solve the 3D problem.

6 **3. Implicit's Solution.**

7
8 14. In 1994, Edward Balassanian was a computer scientist working on networking
9 issues at Microsoft. Microsoft was then promoting proprietary protocols and trying to
10 establish a proprietary standard. But, with the ever more diverse set of devices and demands,
11 Mr. Balassanian did not think that a monolithic, one size fits all approach would ultimately
12 work. In February 1995, he left Microsoft.

13 15. A year later, he founded Implicit Networks, then known as BeComm
14 (hereafter "Implicit").

15
16 16. Mr. Balassanian created Implicit to build a radical new approach to
17 networking – a new solution to the 3D problem. Put simply, instead of stacking intelligence
18 into the application, Mr. Balassanian devised a system where every discrete computer
19 function, *e.g.*, processing http server requests over tcp/ip, streaming a video web-based client,
20 or managing voice-over-ip calls, would be built into a discrete software module, called a
21 "bead." Dynamically, at run-time, a software engine would receive a stream of data --- say
22 video --- determine **what** services were necessary to render that content and **where** the
23 content was to be rendered, and then assemble --- or string together --- the requisite service
24 beads (modules) at run-time. In this fashion, the needs at run-time drove the just-in-time
25 creation of the processing path itself, as against trying to stuff given data into a stack
26 previously hardwired into the application.
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1 17. Any specific service could be encapsulated as a bead, including:

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

7 18. Ultimately, Implicit built more than 200 discrete software service beads.

8 Beads were the building blocks for the processing element applied to a data flow.

9 19. In this new model, services were designed from the outset to process data
10 flows. This meant that the intelligence engine picked the right services for the right data
11 flows, managed the “State” (e.g. status) associated with each data flow, and managed the
12 flow across the services. In this new system, the Lego blocks needed to process a particular
13 data flow were assembled when needed and as needed, as against the prior model, where the
14 blocks were immutably glued together at build-time.

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

19 21. The concept of breaking up applications into discrete services that could be
20 “strung” together on the fly at runtime was an innovation with profound applicability to real
21 world problems. It applied to media players since it allowed media
22 encoding/decoding/transcoding to happen adaptively at runtime. It applied to network stacks
23 since it allowed network stacks to be responsive to real-time changes in the physical network
24 (e.g. QoS), transport (e.g. support for new protocols), and application layers (e.g. virus
25 threats, firewalls etc.).
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1 22. Implicit made and sold products and technology to numerous large and
2 sophisticated customers. Implicit first had its Strings and Beads platform ready for
3 commercial sale in January 2000, at the Consumer Electronics Show (“CES”) held that
4 month in Las Vegas. From this date forward, Implicit met with real success in the
5 marketplace. For example, in 2000, Implicit signed a contract to develop all the media
6 processing code for Intel’s web tablet, a device very similar to Apple’s new iPad. By 2001,
7 Implicit had built the code, and Intel began to manufacture the device.
8

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

13 24. In 2004, Intel hired Implicit to use its streaming technology to build the Intel
14 media player, a device that synchronized multiple computers in a home to play music and
15 video, both locally and over a network.
16

17 25. Along with these Intel contracts, in 2004, Implicit signed a contract with chip
18 maker AMD to develop a media player referenced design for AMD. Implicit built the media
19 player, using its technology, finishing in 2004.

20 26. Along the same lines, Thompson Multimedia hired Implicit to build all of the
21 media processing software for the first Thompson digital set-box that allowed for streaming
22 of HD content into the home. The resulting Implicit-Thompson set-box won Best of Show at
23 the annual Consumer Electronics Show (“CES”) in 2005.
24

25 27. Along the same lines, in 2003, Implicit built a distributed knowledge
26 management solution for Raytheon, using Strings technology. The solution allowed
27 disparate databases to be connected to a single user interface such that data was normalized
28

1 on the fly by software components. The system was used as part of a Raytheon product for
2 knowledge discovery in the defense sector.

3 28. In addition to these specific contractual relationships, Implicit, through its
4 CEO and others, met with numerous large technology companies to introduce them to the
5 novel Implicit technology. These companies included Cisco Systems, 3Com, Motorola, and
6 numerous others. All such technical discussions were conducted pursuant to respective
7 NDA's.
8

9 29. Implicit's work, inventions, and patents were the subject of numerous articles
10 in the trade press. For example, in March, 2001, the EETimes reported on Implicit's work
11 with the Intel Tablet, and specifically called out the Implicit patent portfolio, as follows:

12 Intel intends to introduce the tablet in North America later
13 this year. One technology that will make the Web Tablet
14 stand out among other Internet appliances is BeComm's
15 Strings. And by extension, Strings could weave disparate
16 distributed appliances into a global peer-to-peer
17 communications architecture.

18 ***

19 **Bead-dazzled**

20 While the Strings core has many similarities to traditional
21 operating systems, it is also significantly different. Strings
22 defines a new middleware layer of software focused on
23 delivering digital media to end users, rather than relying on
24 hardware or networks to deliver that media. To address the
25 fluid nature of Internet appliances, every Strings-based
26 appliance is able to dynamically generate the feature set
27 needed to enable instant access to content. Strings achieves
28 this by leveraging highly discrete software objects called
Beads. Any Strings-enabled appliance can instantly string
together a series of Beads to dynamically enable the
required functionality. Since an appliance can string Beads
together across a network of appliances, the functionality
required to manage any given type of media can be
distributed across a network.

1 Strings provides an environment where users have instant
2 access to any type of content from any appliance. For
3 example, a handheld device with a screen, speaker and
4 microphone could provide access any content that can be
5 rendered in audio or video formats. This handheld could
6 morph into an MP3 player, serve as an Internet telephone,
7 or function as a universal remote control. That requires
8 managing not only the appliance's user interface, but also
9 its interface to multimedia content as well, and to the
10 appliance's interface to the network.

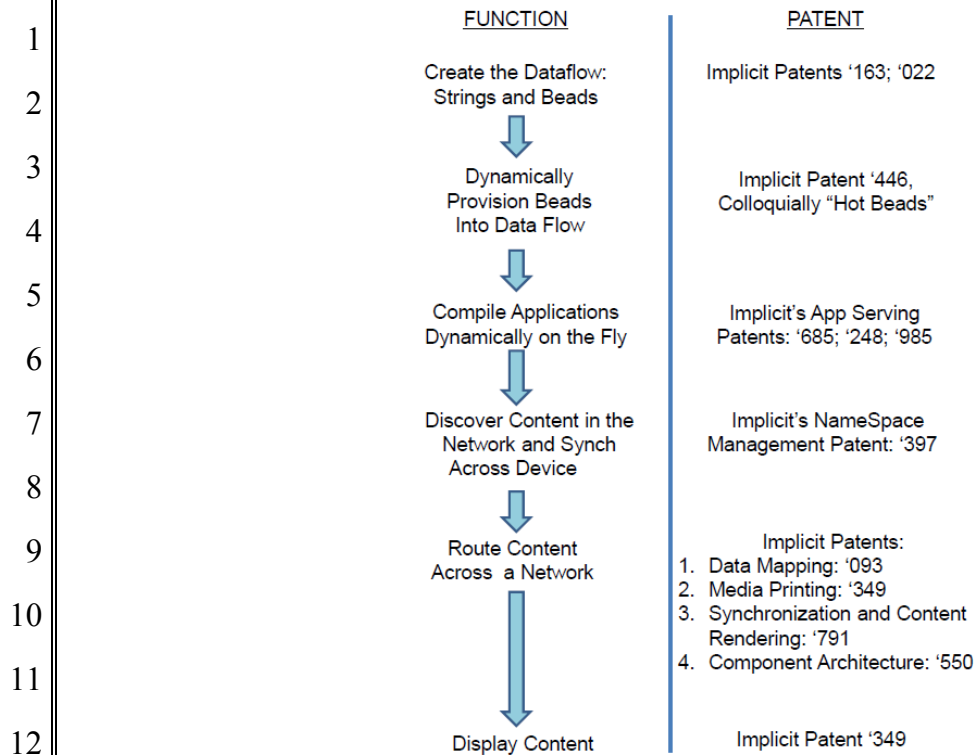
11 **Complete infrastructure**

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

19 Emphasis added.

20 30. Implicit indeed did patent all of the core aspects of its String architecture.

21 Captured graphically by function, below is the portfolio:
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31. 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.

32. 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.

1 **B. F5's Historical Contacts With Implicit Networks.**

2 33. Prior to and during the period of its infringement, F5 was fully aware of the
3 Implicit patent portfolio.

4 34. F5 first approached Implicit on April 2, 2001. F5 called Implicit to say that
5 F5 was interested in working with Implicit, particularly as to a new proposed F5 product
6 which they described as "iControl." Prior to this episode, a senior Implicit engineer, John
7 Polstra, joined F5, as an engineer. At Implicit, Mr. Polstra had worked on the core Strings
8 and Beads platform; at F5, he worked on the TMOS kernel.

9 35. On December 6, 2005, the F5 founder, former CEO and Board Chairman
10 Jeffrey S. Hussey met at Implicit's office with Implicit's CEO, Edward Balassanian. Mr.
11 Hussey attended that meeting to consider a potential investment in Implicit Networks. At
12 that meeting, Implicit's CEO made a detailed 90 minute presentation to Mr. Hussey, and
13 others, as captured in a presentation slide deck.

14 36. Amongst other things, that slide deck disclosed core Implicit technology and
15 discussed Implicit's "extensive patent portfolio." After the meeting, Mr. Hussey's business
16 partner asked that Implicit forward to him the slides used during the December 6, 2005
17 meeting. Implicit did so on December 13, 2005, along with a related Implicit executive
18 summary.

19 **C. F5's Infringing Products.**

20 37. Defendant describes itself as "a global leader in Application Delivery
21 networking. . . ." Defendant makes and sells its TMOS™ platform, which Defendant
22 describes as a shared product platform that is "the foundation for F5 products." The
23 TMOS™ platform is in a modular, extensible, operating system, now central to Defendant's
24 BIG-IP products and product line. As a modular and extensible system, TMOS™ has,
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1 according to Defendant, the “unique ability to change its behavior based on real-time, real-
2 world events. Every event, from client connection initiation through payload processing –
3 even return traffic from the server back to the client – constitutes an opportunity for TMOS™
4 to change its behavior to match the current requirement. This functionality makes TMOS™
5 the most adaptable and flexible solution available.” Defendant claims that its “revolutionary
6 TMOS™ architecture is at the heart of all BIG-IP platforms. . . .” TMOS is “a collection of
7 modules,” each performing a particular function, *e.g.*, a networking driver module, an IP
8 module, a TCP module. Each is self contained and the system can be extended by simply
9 adding a new module.
10

11 38. Defendant’s BIG-IP products are sold throughout the United States, including
12 in this district.

13 39. Defendant’s TMOS™ platform and associated BIG-IP products infringe the
14 ’163 and ’857 Implicit Patents.

15 40. In addition, F5’s “Big-IP WAN Optimization Module” infringes. This F5
16 product is F5’s WAN Optimization and Acceleration product. The module operates at the
17 session layer (layer 5) to improve traffic through and within a WAN. The product does this
18 by, amongst other things, “Symmetric Data Duplication,” and “Symmetric Adaptive
19 Compression.”
20

21 41. The F5 WAN Optimization and Acceleration module dynamically selects a
22 series of processing components based on packet inspection. It infringes the Implicit
23 Dynamic Data Flow patents.
24

25 **COUNT I**
26 **(Patent Infringement)**

27 42. Plaintiff incorporates by reference the allegations of paragraphs 1-41, above.
28

1 43. On September 30, 2003, United States Patent No. 6,629,163 (“the ’163
2 patent”) entitled “Methods and System for Demultiplexing a First Sequence of Packet
3 Components to Identify Specific Components Wherein Subsequent Components are
4 Processed Without Re-Identifying Components” was duly and legally issued and assigned to
5 Plaintiff, its sole owner. *See* Exhibit A. On June 22, 2010, the ’163 patent emerged from
6 reexam, with amended and new claims. *See* Exhibit B.

7
8 44. Pursuant to 35 U.S.C. § 282, the above-listed United States Patent is presumed
9 valid.

10 45. Edward Balassanian is the sole inventor of the ’163 patent. The ’163 patent
11 has been assigned to Plaintiff.

12 46. Defendant has infringed and is infringing the ’163 Patent, by, without
13 authority, consent, right or license, and in direct infringement of the patent, making, using,
14 offering for sale and/or selling products using the methods, processes and apparatuses
15 claimed in the patent in the United States. This conduct constitutes infringement under 35
16 U.S.C. § 271(a).

17
18 47. In addition, F5 has infringed and is still infringing the Patents-in-Suit in the
19 United States, through, *inter alia*, its active inducement of others to make, use, and/or sell the
20 systems, products and methods claimed in one or more claims of the patents. F5’s customers
21 of the TMOST™ platform and associated BIG-IP products, including the WAN Optimization
22 Module have directly infringed the Patents-in-Suit, and were induced to do so by F5. F5
23 knows of the Patents-in-Suit and their contents, based upon, *inter alia*, F5’s actual notice of
24 the patents. F5 actively and knowingly encouraged, aided and abetted its customers to
25 directly infringe the Patents-in-Suit. F5 offered its infringing products for sale with the intent
26 of promoting their use to infringe, and with that object, F5 intentionally encouraged its
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1 customers to infringe the Patents-in-Suit by advertising its products for infringing uses, and
2 instructing its customers how to use the products to engage in infringement. F5 specifically
3 intended that its customers infringe the Patents-in-Suit. F5 knew of the Patents-in-Suit and
4 of their contents, based upon, its actual notice of the patents. F5 had specific intent to
5 encourage customers to infringe the Patents-in-Suit, and knew or should have known that its
6 actions would encourage customers to actually infringe the Patents-in-Suit. This conduct
7 constitutes infringement under 35 U.S.C. § 271(b).
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9 48. In addition, F5 has infringed and is still infringing the Patents-in-Suit in this
10 country through, *inter alia*, providing and selling goods and services including the infringing
11 TMOS™ platform and associated BIG-IP products, including the WAN Optimization
12 Module products designed for use in practicing one or more claims of the Patents-in-Suit,
13 where the goods and services constitute a material part of the invention and are not staple
14 articles of commerce, and which have no use other than infringing one or more claims of the
15 Patents-in-Suit. F5's customers commit the entire act of direct infringement. F5 has
16 committed these acts with knowledge that the goods and services it provides are specially
17 made for use in a manner that directly infringes the Patents-in-Suit. This conduct constitutes
18 infringement under 35 U.S.C. § 271(c).
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20 49. Defendant's infringing conduct is unlawful and willful. Defendant's willful
21 conduct makes this an exceptional case as provided in 35 U.S.C. § 285.
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23 50. As a result of Defendant's infringement, Plaintiff has been damaged, and will
24 continue to be damaged, until they are enjoined from further acts of infringement.
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COUNT II
(Patent Infringement)

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51. On May 4, 2010, the United States Patent No. 7,711,857, entitled “Method and System for Data Demultiplexing,” was duly and legally issued and assigned to Plaintiff, its sole owner. *See* Exhibit C.

52. Pursuant to 35 U.S.C. § 282, the above-listed United States Patent is presumed valid.

53. Edward Balassanian is the sole inventor of the ’857 Patent. That patent has been assigned to Plaintiff.

54. Defendant has infringed and is infringing the ’857 Patent, by, without authority, consent, right or license, and in direct infringement of the patent, making, using, offering for sale and/or selling products using the methods, processes and apparatuses claimed in the patent in this country. This conduct constitutes infringement under 35 U.S.C. § 271(a).

55. In addition, F5 has infringed and is still infringing the Patents-in-Suit in the United States, 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. F5’s customers of the TMOST™ platform and associated BIG-IP products, including the WAN Optimization Module have directly infringed the Patents-in-Suit, and were induced to do so by F5. F5 knows of the Patents-in-Suit and their contents, based upon, *inter alia*, F5’s actual notice of the patents. F5 actively and knowingly encouraged, aided and abetted its customers to directly infringe the Patents-in-Suit. F5 offered its infringing products for sale with the intent of promoting their use to infringe, and with that object, F5 intentionally encouraged its customers to infringe the Patents-in-Suit by advertising its products for infringing uses, and

1 instructing its customers how to use the products to engage in infringement. F5 specifically
2 intended that its customers infringe the Patents-in-Suit. F5 knew of the Patents-in-Suit and
3 of their contents, based upon, its actual notice of the patents. F5 had specific intent to
4 encourage customers to infringe the Patents-in-Suit, and knew or should have known that its
5 actions would encourage customers to actually infringe the Patents-in-Suit. This conduct
6 constitutes infringement under 35 U.S.C. § 271(b).

7
8 56. In addition, F5 has infringed and is still infringing the Patents-in-Suit in this
9 country through, *inter alia*, providing and selling goods and services including the infringing
10 TMOST™ platform and associated BIG-IP products, including the WAN Optimization
11 Module products designed for use in practicing one or more claims of the Patents-in-Suit,
12 where the goods and services constitute a material part of the invention and are not staple
13 articles of commerce, and which have no use other than infringing one or more claims of the
14 Patents-in-Suit. F5's customers commit the entire act of direct infringement. F5 has
15 committed these acts with knowledge that the goods and services it provides are specially
16 made for use in a manner that directly infringes the Patents-in-Suit. This conduct constitutes
17 infringement under 35 U.S.C. § 271(c).

18
19 57. Defendant's infringing conduct is unlawful and willful. Defendant's willful
20 conduct makes this an exceptional case as provided in 35 U.S.C. § 285.

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22 58. As a result of Defendant's infringement, Plaintiff has been damaged, and will
23 continue to be damaged, until they are enjoined from further acts of infringement.

24 **PRAYER FOR RELIEF**

25 WHEREFORE, Plaintiff prays:

26 (a) That this Court find Defendant has committed acts of patent infringement
27 under the Patent Act, 35 U.S.C. § 271;
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(b) That this Court enter judgment that:

(i) The '163 and '857 Patents are valid and enforceable; and

(ii) Defendant has willfully infringed those Patents.

(c) That this Court award Plaintiff the damages to which it is entitled due to Defendant's patent infringement, with both pre-judgment and post-judgment interest;

(d) That Defendant's infringement of the above cited Patents be adjudged willful and that the damages to Plaintiff be increased by three times the amount found or assessed pursuant to 35 U.S.C. § 284;

(e) That this be adjudged an exceptional case and that Plaintiff be awarded its attorney's fees in this action pursuant to 35 U.S.C. § 285;

(f) That this Court award Plaintiff its costs and disbursements in this civil action, including reasonable attorney's fees; and

(g) That this Court grant Plaintiff such other and further relief, in law or in equity, both general and special, to which it may be entitled.

Dated: December 20, 2010

Respectfully submitted,

/s/ George F. Bishop
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Attorneys for Plaintiff
IMPLICIT NETWORKS, INC.

DEMAND FOR JURY TRIAL

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

Dated: December 20, 2010

Respectfully submitted,

/s/ George F. Bishop
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IMPLICIT NETWORKS, INC.

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