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12	UNITED STATES DISTRICT COURT NORTHERN DISTRICT OF CALIFORNIA		
13		E DIVISION	
14	APPLE INC., a California corporation,		
15	Plaintiff,		
16	VS.	Civil Action No. 11-CV-01846-LHK	
17	SAMSUNG ELECTRONICS CO., LTD., a Korean business entity, SAMSUNG	APPLE INC.'S RESPONSIVE CLAIM CONSTRUCTION BRIEF	
18	ELECTRONICS AMERICA, INC., a New York corporation, and SAMSUNG	Hearing: January 20, 2012	
19	TELECOMMUNICATIONS AMERICA, LLC, a Delaware limited liability company,	Time: 10:00 a.m. Place: Courtroom 8, 4 th Floor	
20	Defendants.	Judge: Hon. Lucy H. Koh	
20	SAMSUNG ELECTRONICS CO., LTD., a	PUBLIC REDACTED VERSION	
	Korean business entity, SAMSUNG		
22	ELECTRONICS AMERICA, INC., a New York corporation, and SAMSUNG		
23	TELECOMMUNICATIONS AMERICA, LLC, a Delaware limited liability company,		
24	Counterclaim-Plaintiffs,		
25	V.		
26	APPLE INC., a California corporation,		
27	Counterclaim-Defendant.		
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4 5	Fromson v. Anitec Printing Plates, Inc., 132 F.3d 1437 (Fed. Cir. 1997)1
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13	U.S. Surgical Corp. v. Ethicon, Inc., 103 F.3d 1554 (Fed. Cir. 1997)
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I. INTRODUCTION

Pursuant to the Court's Case Management Order (Dkt. 187), Apple Inc. ("Apple") submits this responsive brief in support of its construction of two claim limitations: the term "symbol" in U.S. Patent No. 7,200,792 ("'792 Patent") and the term "applet" in U.S. Patent No. 7,698,711 ("'711 Patent").

With respect to "symbol," the parties have agreed to stipulate to the alternate construction of the term proposed by Samsung in its Opening Claim Construction Brief: "a modulated signal representing a number of bits specified according to the modulation technique." With respect to "applet," Apple's construction should be adopted as the only one consistent with the prosecution history and Samsung's use of the term to distinguish the prior art.

II. LEGAL STANDARD

Claim construction is necessary where there is a dispute between the parties or "when necessary to explain what the patentee covered by the claims, for use in the determination of infringement." *U.S. Surgical Corp. v. Ethicon, Inc.*, 103 F.3d 1554, 1568 (Fed. Cir. 1997). "When technical or scientific terms in the claims require definition or explanation or understanding in the course of deciding whether the claims are infringed, it is the judicial duty to do so." *Fromson v. Anitec Printing Plates, Inc.*, 132 F.3d 1437, 1441-42 (Fed. Cir. 1997), *abrogated on other grounds*, 138 F.3d 1448 (Fed. Cir. 1998).

The words of a claim generally should be given their "ordinary and customary meaning," the meaning that they would have to a person skilled in the art. In determining the meaning of a disputed claim term, the Court must consider the intrinsic evidence, including the specification and the prosecution history, and may also consult extrinsic evidence, such as dictionaries and treatises. *Phillips v. AWH Corp.*, 415 F.3d 1303, 1315-17 (Fed. Cir. 2005). Of particular relevance to the interpretation of "applet," the "prosecution history can often inform the meaning

of the claim language by demonstrating how the inventor understood the invention and whether the inventor limited the invention in the course of prosecution, making the claim scope narrower than it would otherwise be." *Id.* at 1317.

III. ARGUMENT

A. The Parties Have Agreed to Stipulate to the Alternate Construction for "Symbol" Proposed by Samsung

Subsequent to the filing of Samsung's Opening Claim Construction Brief, the parties agreed to stipulate to the alternate construction of the claim term "symbol" proposed by Samsung: "a modulated signal representing a number of bits specified according to the modulation technique." Accordingly, Apple requests that the Court adopt this agreed-upon construction.

B. The Term "Applet" Is "An Operating System Independent Computer Program That Runs Within An Application Module"

1. Background on Samsung's Alleged Invention in the '711 Patent

The claims of the '711 patent are generally directed to the ability to play music on a mobile device while performing other tasks and require a software application that generates a "music background play object" with a background music playing function. Such a feature was well known prior to August 30, 2005, the earliest possible priority date of the '711 patent. Indeed, several commercial embodiments of the alleged invention were already on the mobile phone market before that date. *See, e.g.*, Nokia 3300 device and "Extended User's Guide," Nokia Corporation (2003) (Selwyn Dec. Ex A); Sony W800i device and User Guide (1st ed.), Sony Ericsson Mobile Comm. AB (May 2005) (Selwyn Dec. Ex B); Sony K700 device and User

¹ Citations to "Selwyn Dec. Ex. __" refer to the Declaration of Mark D. Selwyn in Support of Apple Inc.'s Responsive Claim Construction Brief and the exhibits thereto.

Guide (1st ed.), Sony Ericsson Mobile Comm. AB (March 2004) (Selwyn Dec. Ex C).² None of these devices, each of which anticipates or renders obvious the claims of the '711 patent as issued, was before the patent examiner during prosecution.

Moreover, to have the claims of the '711 patent allowed over the cited prior art, Samsung added the phrase "an application module including at least one applet" during prosecution. Yet, Samsung now advocates for a construction of the claim term "applet" that is so broad that it would render the term effectively meaningless and, further, fail to distinguish over any of the prior art, including the art that was before the Patent Office. *Texas Instruments Inc. v. United States Int'l Trade Comm'n*, 988 F.2d 1165, 1171 (Fed. Cir. 1993) (rejecting a patentee's proffered claim construction because it "would render the disputed claim language mere surplusage"). As such, Samsung's proposed construction is contrary to the intrinsic evidence and should be rejected by the Court.

By contrast, Apple's proposed construction is consistent with the intrinsic evidence and the extrinsic evidence showing how those of skill in the art at the time of the alleged invention would understand the term.

2. "Applet"

Claim Term	Samsung's Proposed	Apple's Proposed	Key Dispute(s)
(relevant claims)	Construction	Construction	
"applet" (claims 1, 9, 17)	"A small application designed to run within another program."	"An operating system-independent computer program that runs within an application module."	Whether an "applet" is "operating system-independent" and runs within "an application module."

² Apple cited these references in its Patent L.R. 3-3 Invalidity Contentions (served on October 7, 2011) at 39-40 and 92-93.

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The parties' dispute turns on whether the required "applet" is satisfied by any small application running within another program or, instead, is limited to an operating system-ndependent program that runs within "an application module."

As is well understood in the art of computer programming, an operating system (*e.g.*, Microsoft Windows) manages computer hardware resources and provides common services for application software (*e.g.*, Microsoft Word). Applications are the programs that are used to perform specific tasks by the user. *See*, *e.g.*, J. Hoskins and R. Bluethman, *Exploring IBM e-server pSeries* (12th ed., 2004) ("Hoskins") at 189-90 (Selwyn Dec. Ex. D).³

Typically, some of the features and functioning of an application are provided by the operating system. *Id.* at 199-200. For example, the operating system might provide the basic Windows functionality of a word processing program, leaving to the application the specifics of how words will appear on the screen. However, it is also possible for a program to be independent of the operating system; that is, for all its functionality to be derived from either the application itself or some other source. *See* Declaration of Tony Givargis, Ph.D. in Support of Apple's Proposed Claim Construction for U.S. Patent No. 7,698,711 ("Givargis Declaration"), ¶ 20 (Selwyn Dec. Ex. E). "Java applets" are the best known example of this type of program. Rather than relying on the operating system for basic functionality, the applet operates within and draws on resources and services provided by a separate host application, for example, applications written in "Java" language as originally provided by Sun Microsystems. *Id.* at ¶ 21.

Samsung's proposed construction provides no definite limitation on the word "applet."

Although stating that the applet must be "small" and "run within another program," Samsung has

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³ Apple cited the Hoskins reference in the parties' Joint Claim Construction and Prehearing Statement Pursuant to Patent L.R. 4-3 (Dkt. 394-A) ("Joint Statement") at 12, and it also was discussed at paragraphs 49-50 of the Givargis Declaration.

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'711 patent, claim 1 (emphasis added) (Selwyn Dec. Ex. G). The term "applet" is also recited in independent claims 9 and 17, which claim "a controller for generating a music background play object, wherein the music background play object includes an application module including at least one *applet*." *Id.*, claims 9, 17 (emphasis added).

The specification provides little assistance for the meaning of the term. The only recitation of the term "applet" in the specification essentially mirrors the language of the claims in referring to an application module including at least one applet:

FIG. 1 is a block diagram of a portable terminal according to an exemplary embodiment of the present invention, in which an MP3 music control processor is not included. Application modules of the portable terminal include at least one *applet* and each of the application modules, that is each menu of the portable terminal, independently performs multi-tasking.

Id. at 3:8-14 (emphasis added).

The prosecution history, in contrast, reveals that the word "applet" was specifically added to narrow the claims and thereby distinguish prior art mobile phones that could play music.

Specifically, throughout prosecution, the Patent Office maintained rejections of the claims as obvious over U.S. Patent No. 7,123,945 ("Kokubo") (Selwyn Dec. Ex. H) in view of additional prior art. *See* '711 file history, 12/12/07 Office Action; 2/28/08 Office Action; 8/1/08 Office Action; 1/26/09 Office Action; 5/27/09 Office Action; and 11/09/09 Office Action (Selwyn Dec. Exs. I-N). The Kokubo patent discloses a portable phone that includes, among other things, a program that permits the playing of music. Kokubo at 10:54-62 (Selwyn Dec. Ex. H). To obtain allowance of its application, Samsung amended each independent claim to add the disputed limitation: "wherein the music background play object includes an application module including at least one applet." '711 file history, 12/8/09 Amendment at 2-4 (Selwyn Dec. Ex. O).

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1	In amending the claims, Samsung expressly referenced the suggestion of the Patent
2	Office that the claims include a "limitation indicating that the music background play object
3	includes an application module <i>including at least one applet</i> ." <i>Id.</i> at 7 (emphasis added).
4	Samsung then argued that "Kokubo makes no disclosure that the icon [denoting a specific task,
5	such as the playing of music] includes an application module, or that the application module
7	includes at least one applet as instantly claimed." <i>Id.</i> at 10. After these amendments were made,
8	the Patent Office withdrew the rejections and issued a Notice of Allowance. '711 file history,
9	1/13/10 Notice of Allowance (Selwyn Dec. Ex. P). Thus, it is clear that during prosecution
10	Samsung added the "applet" limitation to distinguish the '711 patent claims from the Kokubo
11	patent, a fact admitted by Samsung's expert. See Declaration of Joe Tipton Cole ("Cole
12	Declaration"), ¶¶ 33-34 ("The claim language that includes the term 'applet' was added at the
13	request of the patent examiner As a result of this request, the claims were amended to include
14 15	the language suggest $[sic]$ by the patent examiner. The language added to claims 1, 9, and 17
16	was 'wherein the music background play object includes an application module including at least
17	one applet." (citations to the file history omitted)). See also '711 file history, 12/16/09
18	Examiner's Interview Summary (Continuation Sheet) (examiner noting her "suggest[ion] to
19	further include the definition of 'a music background play object' as 'wherein the music
20	background play objects including an application module includes at least one applet' as
21	argued during the interview to distinct [sic] from the icon as taught by KOKUBO") (Selwyn
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23	Dec. Ex. Q).
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⁴ The Cole Declaration is attached as Ex. 4 to the Declaration of Brett Arnold in Support of Samsung's Administrative Motion to File Documents Under Seal (Dkt. 468-6).

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4. The "Applet" Must Run Within An "Application Module," Not Merely A Program.

The language of the claims, the specification and the prosecution history mandate the portion of Apple's proposed construction stating that the applet runs "within an application module." Throughout the intrinsic evidence, there is repeated reference to an "application module including at least one applet." '711 file history, 12/16/09 Examiner's Interview Summary (Continuation Sheet) (Selwyn Dec. Ex. Q); '711 file history, 12/8/09 Amendment at 6-10 (Selwyn Dec. Ex. O). In contrast, neither the specification nor the file history mentions an applet running within "another program," more generally, as in Samsung's proposed construction. Therefore, only Apple's construction is consistent with the intrinsic evidence.

5. An "Applet" Is A Program That Runs Independently From The Operating System.

a) Samsung's Construction Ignores The File History

Samsung criticizes Apple's construction for including the phrase "operating system independent" when "the specification does not even use the term operating system." Samsung's Opening Claim Construction Brief (Dkt. 466-1) ("Samsung Br.") at 14. At the same time, Samsung curiously suggests that the specification's lone statement that "[a]pplication modules of the portable terminal include at least one applet" ('711 patent at 3:10-12 (Selwyn Dec. Ex. G)) somehow "closely tracks Samsung's proposed construction," despite the fact that Samsung's construction adds the word "small" and substitutes "program" for "application module," both without explanation. Samsung Br. at 14. In truth, other than making clear that the applet runs within an application module, not just any program, the specification provides little help to either party in construing the claim.

The prosecution history of the '711 patent, on the other hand, confirms that, at a minimum, the term "applet" cannot be broadly construed as proposed by Samsung. The

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1 examiner correctly found that the prior art before the Patent Office taught how to "generate a 2 3 4 to distinguish over the cited prior art. 5 6 7 8 9 10 11 12 Unique Concepts, 939 F.2d at 1563. 13 14 15 16 17 18 44:21-45:16 19 20 21 22 23 24 25 26 "obliterated" claim limitation "each of"). 27

music background play object." '711 file history, 11/9/09 Office Action at p. 3 (Selwyn Dec. Ex. N). The term "applet" must be clearly limited as proposed by Apple, or it would do nothing Apple's interpretation of the claim language comports with the claim construction maxim that "[a]ll the limitations of a claim must be considered meaningful." *Unique Concepts, Inc. v.* Brown, 939 F.2d 1558, 1562 (Fed. Cir. 1991) (citing Perkin-Elmer Corp. v. Westinghouse Elec. Corp., 822 F.2d 1528, 1532-33 (Fed. Cir. 1987)). Indeed, Samsung appears poised to argue that "applet" is so broad as to make the limitation meaningless. Construing "applet" as proposed by Samsung must be rejected because it "would render meaningless [an] express claim limitation." Prior to amendment, the claims required "generating a music background play object." See Deposition of Moon-Sang Jeong ("Jeong Dep.") at But the Patent Office only allowed the '711 patent to issue after Samsung added this very limitation. See supra Part III.B.3. Consistent with the file history, the word "applet" must therefore be construed in a manner that gives meaning to this limitation of the claims. See Elekta Instrument S.A. v. O.U.R. Sci. Int'l, 214 F.3d 1302 (Fed. Cir. 2000) (construing claim to avoid rendering the 30 degree claim limitation superfluous); Gen. Am. Transp. Corp. v. Cryo-Trans, Inc., 93 F.3d 766, 770 (Fed. Cir. 1996) (reversing district court's construction where it

evidence

construction.

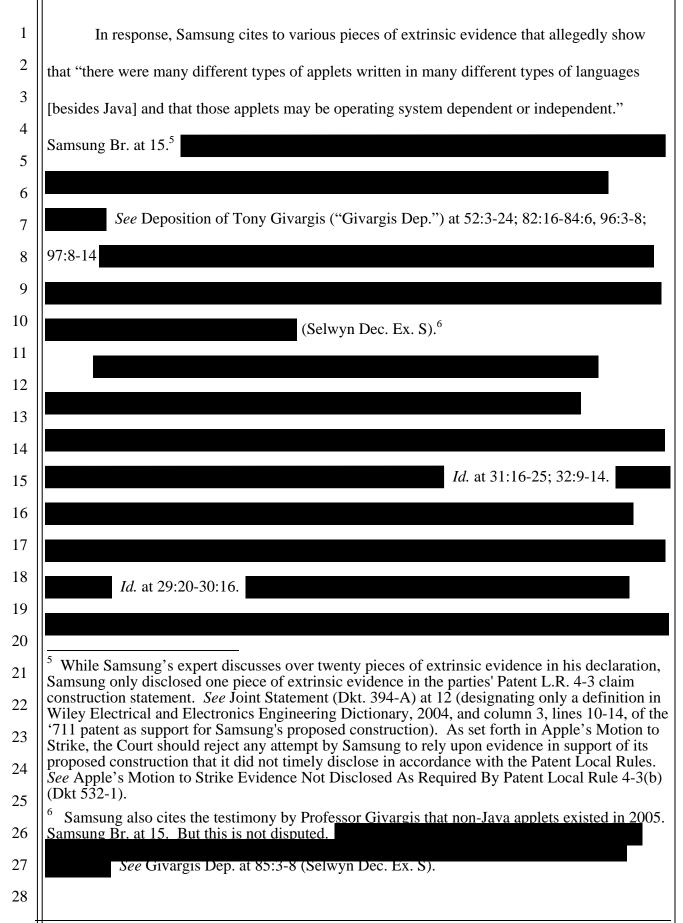
b) The Extrinsic Evidence Supports Apple's Construction

In support of its construction, Apple has submitted the Declaration of Professor Tony		
Givargis of the University of California, Irvine, who explained that the plain meaning of "applet"		
to one of ordinary skill in the art in 2005 is consistent with Apple's construction, including both		
the operating system independence and running within an application module aspects of the		
construction. Givargis Declaration, ¶ 32 (Selwyn Dec. Ex. E). Professor Givargis cites		
numerous publications supporting the proposition that applets are understood to be commonly		
Java-based programs that are executed within another application, such as a web browser,		
independent of the platform or operating system. $Id.$, ¶¶ 42-55. The publications address the		
ability of applets to be widely distributed to diverse users, for example, over the Internet, and the		
security advantage of having the applets execute within another application. Id. Professor		
Givargis also explains, with support from the literature, how applets are understood to be		
translated by an interpreter, allowing them to be executed within a host application independent		
of the operating system. $Id.$, ¶¶ 45-46.		
See Cole Dep. at 69:6-		
71:8 (Selwyn Dec. Ex. F).		
<i>Id.</i> at 57:9-21; 95:13-96:3.		

Id. at 65:3-12. Thus, the extrinsic

squarely supports Apple's

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1	
2	Cole Dep. at 89:20-91:7
3	Cole Dep. at 89.20-91.7
	(Selwyn Dec. Ex. F).
4	Samsung further attempts to support its improperly broad proposed construction by
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6	pointing to contemporaneous notes and testimony from Dr. Jeong, the named inventor of the
7	'711 patent. Samsung Br. at 15.
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9	Jaang Dan
	Jeong Dep
O	at 35:4-36:3 (Selwyn Dec. Ex. R).
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2	Company Dr. et 15
3	Samsung Br. at 15.
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)	Cole Dep. at 53:8-11; 97:9-17 (Selwyn Dec. Ex. F).
)	Cole Dep. at 33.6-11, 97.9-17 (Serwyll Dec. Ex. 17).
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2	7
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1	Samsung Br. at 15-16
5	See
5	Givargis Dep. at 40:24-42:17
,	Ex S). 46:23-48:5 (Selwyn Dec
3	

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CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the above and foregoing document has been served on December 22, 2011 to all counsel of record who are deemed to have consented to electronic service via the Court's CM/ECF system per Civil Local Rule 5.4. Any other counsel of record will be served by electronic mail, facsimile and/or overnight delivery.

/s/ Mark. D Selwyn Mark D. Selwyn