#### APPENDIX A

### **Anticipation of the '552 Patent**

## I. EXPLANATION OF PERTINENCE AND MANNER OF APPLYING CITED PRIOR ART TO THE ASSERTED CLAIMS

# A. Summary Of The Claimed Subject Matter Of The '552 Patent For Analysis of Invalidity

The asserted claims of the '552 Patent can be broken into "server-side" claims (set 1) and client-side" claims (set 2):

Set	Claims	"program" claims		"data table" claims	
		method	system	method	system
1	Generating compact difference result using invariant references (server-side)	<b>8</b> 9-11, 28*	<b>21</b> 22-24	<b>42</b> 43-45, 62*	<b>55</b> 56-58
2	Performing update using invariant references (client-side)	<b>12</b> 13, 29-31	<b>25</b> 32-34	<b>46</b> 47, 63-65	<b>59</b> 60, 66-68

<sup>\*</sup> Claims 28 and 62 are multiple dependent product-by-process claims.

Since many of the asserted claims are nearly identical to one another, the analysis of all of the asserted independent claims for invalidity can be simplified into analysis of two representative claims from each set as follows:

- Set 1: Server-side claim 8 same analysis applies to claims 21, 42, and 55
- Set 2: Client-side claim 12 same analysis applies to claims 25, 46, and 59

The asserted dependent claims add insignificant subject matter to the independent claims and are of three types. First, there are dependent claims that call for sending the compact difference result results via a communications network or the Internet (dependent claims 9, 10, 22, 23, 32, 33, 43, 44, 63, 64, 59, 56, 57, 66, and 67). Second, there are dependent claims that call for storing the compact difference result on a storage medium (dependent claims 11, 24, 31, 34, 45, 58, 60, and 65). Finally, there are multiple dependent product-by-process claims (claims 28 and 62) that call for a processing device having a storage medium that holds the compact difference result generated by the methods of claims 8-11 or 42-45.

## B. Explanation Of Cited Prior Art And Its Application With Respect To Invalidity Based On Anticipation

1. Anticipation Of Server-Side Independent Claims 8, 21, 42, And 55, And Dependent Claims 11, 24, 28, 45, 58, 62/42, And 62/45 Based On The Wetmore '713 Patent

For the reasons set forth below, the independent server-side claims (*i.e.*, claims 8, 21, 42, and 55) and dependent server-side claims 11, 24, 28/8, 28/11, 45, 58, 62/42, and 62/45 of the '552 Patent are invalid under 35 U.S.C. § 102(b) over the Wetmore '713 Patent. These claims are the server-side independent claims, plus dependant claims relating to storing the compact difference result on a storage medium.

As discussed above, the Wetmore '713 Patent meets all of the limitations recited in these claims, which is shown in detail in the claim charts below:

Set 1: Server-Side Independent Claims 8, 21, 42, and 55:

Claim Element	Claim Element	The Wetmore '713 Patent
8. A method for	21. A system for	As discussed in more detail in each step below, the
generating a	generating a	Wetmore '713 Patent generates a compact difference
compact difference	compact	result (vector patch resource) between an old
result between an	difference result	executable program (old non-vectorized program) and a
old executable	between an old	new executable program (new non-vectorized
program and a new	executable	program). Each program (old and new non-vectorized
executable	program and a	programs) including reference entries ("jump" entry
program; each	new executable	points) that contain reference that refer to other entries
program including	program; each	in the program.
reference entries	program including	
that contain	reference entries	
reference that refer	that contain	
to other entries in	reference that	
the program; the	refer to other	
method comprising	entries in the	
the steps of:	program; the	
	system comprising	
	a processing	
	device capable of:	
(a) generating a	(a) generating a	During vectorization, the Wetmore '713 Patent
modified old	modified old	generates a modified old program (vectorized old
program utilizing at	program utilizing	program) utilizing at least the old program (the old
least said old	at least said old	non-vectorized program). (Wetmore '713 Patent col.4
program;	program;	11.38-39; col.5 11.1-3, 10-17, 18-31; FIG. 4.)
(b) generating a	(b) generating a	During vectorization, the Wetmore '713 Patent
modified new	modified new	generates a modified new program (vectorized new
program utilizing at	program utilizing	program) utilizing at least the new program (the new

Claim Element	Claim Element	The Wetmore '713 Patent
least said new	at least said new	non-vectorized program). (Wetmore '713 Patent col.4
program,	program,	ll.38-39; col.5 ll.1-3, 10-17; col.10 ll.6-14, col.11
		11.2-12; FIG. 4.)
said modified old	said modified old	The modified old program (vectorized old
program and	program and	program) and modified new program (vectorized new
modified new	modified new	program) have at least the following characteristics:
program have at	program have at	
least the following	least the following	
characteristics:	characteristics:	
(i) substantially	(i) substantially	Substantially each reference (the location in the
each reference in an	each reference in	ROM code in the jump entry point) in an entry (in each
entry in said old	an entry in said	"jump" entry point) in the old program (the old
program that is	old program that is	non-vectorized program) that is different than
different than	different than	corresponding entry in said new program (the new
corresponding entry	corresponding	non-vectorized program) due to delete/insert
in said new	entry in said new	modifications that form part of the transition between
program due to	program due to	the old program and new program (e.g., routines in the
delete/insert	delete/insert	Wetmore '713 Patent can be deleted or inserted), are
modifications that	modifications that	reflected as invariant references (table pointers with an
form part of the	form part of the	offset) in the corresponding entries in the modified old
transition between	transition between	and modified new programs. (Wetmore '713 Patent
said old program	said old program	col.5 ll.18-56; col.6 l.45 – col.8 l.52; FIGS. 3-5.)
and new program	and new program	
are reflected as	are reflected as	Invariant references: Invariant references are
invariant references	invariant references in the	discussed in the '552 Patent and an example is given of
in the		providing <i>invariant references</i> by generating modified old and new programs wherein the address references
corresponding entries in said	corresponding entries in said	in entries are replaced by label marks. Namely, the
modified old and	modified old and	'552 Patent states that: "the invention aims at
modified new	modified new	generating a modified old program and a modified new
programs;	programs;	program, wherein the difference in references in
programs,	programs,	corresponding entries in said new and old programs as
		explained above, will be reflected as <i>invariant entries</i>
		in the modified old and new programs. The net effect is
		that the <i>invariant reference entries</i> (between the
		modified old program and the modified new program),
		will not appear in the difference result, thereby
		reducing its size as compared to a conventional
		difference result obtained by using hitherto known
		techniques." ('552 Patent. col.3 ll.36-46 (emphasis
		added)). The '552 Patent also states: "Those versed in
		the art will readily appreciate that according to the
		invention, it is desired to neutralize this change, since it
		has occurred solely due to the fact that other entries
		have been affected ( <i>i.e.</i> , entries 7 to 9). It is
		accordingly an object of the invention to give rise to a

Claim Element	Claim Element	The Wetmore '713 Patent
		situation where modifications of this kind will be
		modified to <i>invariant references</i> with the obvious
		consequence that they are not reflected in the difference
		result, thereby keeping the latter relatively compact."
		('552 Patent col.10 ll.7-15 (emphasis added).) Further,
		the '552 Patent notes that for the particular embodiment
		of FIGS. 1 and 2, "the desired <i>invariant references</i> are
		accomplished by generating modified old and new
		programs wherein address references in entries are
		replaced by label marks as follows" ('552 Patent col.10 ll.47-50 (emphasis added).) The Patentee also
		provided its claim construction for "invariant
		references" as "References that are the same. See, e.g.,
		'552 Patent 10:10-15." (Edwards Decl. Exh. A.)
		(======================================
		Thus, the vectorization process in the Wetmore
		'713 Patent that results in vectorized programs having
		table pointers with an offset are "invariant references"
		under the '552 Patent's label marks example and also
		under the Patent Owner's construction, since the table
		pointers with offsets will be "the same" in both the
(-)	(-)	vectorized old program and vectorized new program.
(c) generating said compact difference	(c) generating	The Wetmore '713 Patent generates the
result utilizing at	said compact difference result	compact difference result (the vector patch resource) utilizing at least the modified new program (vectorized
least said modified	utilizing at least	new program) and modified old program (vectorized
new program and	said modified new	old program). (Wetmore '713 Patent col.10 l.62 -
modified old	program and	col.11 l.12.)
program.	modified old	
1	program.	

<b>Claim Element</b>	Claim Element	The Wetmore '713 Patent
42. A method for	55. A system for	As discussed in more detail in each step below,
generating a	generating a	the Wetmore '713 Patent generates a compact
compact	compact	difference result (vector patch resource) between an
difference result	difference result	old <b>data table</b> (old non-vectorized program) and a
between an old	between an old	new data table (new non-vectorized program). Each
data table and a	data table and a	data table (old and new non-vectorized programs)
new data table;	new data table;	includes <b>reference entries</b> ("jump" entry points) that
each data table	each data table	contain <b>references</b> that refer to other <b>entries</b> in the
including	including	data table.
reference entries	reference entries	
that contain	that contain	<b>Data table</b> : The '552 Patent defines a "data
reference that refer	reference that	table" as "a table of entries, each may have a different
to other entries in	refer to other	size." ('552 Patent col.2 ll.33-34.) The '552 Patent
the data table; the	entries in the data	also explains that "a data table can be an executable

Claim Element	Claim Element	The Wetmore '713 Patent
method	table; the system	program either as a loaded program in
comprising the	comprising a	machine-memory or as an executable-file. In this
steps of:	processing device	example, entries are individual machine instructions of
	capable of:	the program or the individual data elements used by
		the program." ('552 Patent col.2 ll.61-65.) The
		Patentee also provided its claim construction for "data
		table" as "a table of entries, where an entry is an
		addressable unit within the data table. An executable
		program is one example of a data table. See, e.g.,
		'552 Patent 2:33-36; 2:61-63." (Edwards Decl. Exh.
		A.) Thus, the ROM based code of the Wetmore
		'713 Patent qualifies as a data table.
		D 6 (550 D ) ( ) ( )
		Reference entry: The '552 Patent states in the
		Glossary that "Entries that include references are
		designated also as reference entries." ('552 Patent
		col.2 ll.46-47.) The Patentee also provided its claim
		construction for "reference entry" as "An addressable
		unit containing data that includes a reference. See,
		e.g., '552 Patent 2:35-36; 2:46-47." (Edwards Decl.
		Exh. A.) In Wetmore, the entry points (304) may be
		"jump[s] to a label somewhere else in the ROM code."
		(Wetmore '713 Patent col.5 ll.38-39.) Under the
		'552 Patent's definition of "reference entries," the
		Wetmore '713 Patent's "jump" entry points (reference
		entries) include references to labels somewhere else in
		the ROM code.
		<b>Reference</b> : A "reference" is defined in the
		'552 Patent to be "a part of the data appearing in an
		entry in the data table which is used to refer to some
		other entry from the same data table. A reference can
		be either an address or a number used to compute an
		address." ('552 Patent col.2 ll.42-45.) The Patentee
		also provided the identical claim construction for
		"reference" as "Part of the data appearing in an entry
		in the data table which is used to refer to some other
		entry from the same data table. A reference can be
		either an address or a number used to compute an
		address. See, e.g., '552 Patent 2:42-45." (Edwards
		Decl. Exh. A.) Under this definition, in the Wetmore
		'713 Patent, all of the jump entry points in the old
		non-vectorized program would be all of the references.
		Entry. The '552 Datant states in the Classes.
		<b>Entry:</b> The '552 Patent states in the Glossary that "a data table includes entries, each of which is an
	1	addressable unit that contains data." ('552 Patent

Claim Element	The Wetmore '713 Patent
	col.2 ll.35-36.)
(a) generating a	During vectorization, the Wetmore '713 Patent
	generates a modified old data table (vectorized old
_	program) utilizing at least the old data table (the old
	non-vectorized program). (Wetmore '713 Patent col.4
·	ll.38-39; col.5 ll.1-3, 10-17, 18-31; FIG. 4.)
	During vectorization, the Wetmore '713 Patent
	generates a modified new data table (vectorized new
	program) utilizing at least the new data table (the new
	non-vectorized program). (Wetmore '713 Patent col.4
table,	ll.38-39; col.5 ll.1-3, 10-17; col.10 ll.6-14, col.11
soid modified old	Il.2-12; FIG. 4.)  The modified old data table (vectorized old
	program) and modified new data table (vectorized new
	program) have at least the following characteristics:
	program) have at least the following characteristics.
_	
characteristics.	
(i) substantially	Substantially each reference (the location in the
each reference in	ROM code in the jump entry point) in an entry (in
an entry in said	each "jump" entry point) in the old data table (the old
old data table that	non-vectorized program) that is different than
is different than	corresponding entry in said new data table (the new
corresponding	non-vectorized program) due to delete/insert
entry in said new	modifications that form part of the transition between
data table due to	the old data table and new data table (e.g., routines in
	the Wetmore '713 Patent can be deleted or inserted),
	are reflected as invariant references (table pointers
•	with an offset) in the corresponding entries in the
	modified old and modified new data tables. (Wetmore
	'713 Patent col.5 ll.18-56; col.6 l.45 – col.8 l.52;
	FIGS. 3-5.)
	Invariant references: Invariant references are
	discussed in the '552 Patent and an example is given providing <i>invariant references</i> by generating modified
	old and new programs wherein the address references
	in entries are replaced by label marks. Namely, the
	'552 Patent states that: "the invention aims at
	generating a modified old program and a modified
,	new program, wherein the difference in references in
	corresponding entries in said new and old programs as
	explained above, will be reflected as <i>invariant entries</i>
	in the modified old and new programs. The net effect
	is that the <i>invariant reference entries</i> (between the
	modified old program and the modified new program),
	(a) generating a modified old data table utilizing at least said old data table; (b) generating a modified new data table utilizing at least said new data table utilizing at least said new data table,  said modified old data table and modified new data table have at least the following characteristics:  (i) substantially each reference in an entry in said old data table that is different than corresponding entry in said new

<b>Claim Element</b>	Claim Element	The Wetmore '713 Patent
		will not appear in the difference result, thereby
		reducing its size as compared to a conventional
		difference result obtained by using hitherto known
		techniques." ('552 Patent. col.3 ll.36-46 (emphasis
		added)). The '552 Patent also states: "Those versed in
		the art will readily appreciate that according to the
		invention, it is desired to neutralize this change, since
		it has occurred solely due to the fact that other entries
		have been affected ( <i>i.e.</i> , entries 7 to 9). It is
		accordingly an object of the invention to give rise to a
		situation where modifications of this kind will be
		modified to <i>invariant references</i> with the obvious
		consequence that they are not reflected in the
		difference result, thereby keeping the latter relatively
		compact." ('552 Patent. col.10 ll.7-15.) Further, the
		'552 Patent notes that for the particular embodiment of
		FIGS. 1 and 2, "the desired <i>invariant references</i> are
		accomplished by generating modified old and new
		programs wherein address references in entries are
		replaced by label marks as follows" ('552 Patent.
		col.10 ll.47-50.) The Patentee also provided its claim
		construction for "invariant references" as "References
		that are the same. See, e.g., '552 Patent 10:10-15."
		(Edwards Decl. Exh. A.)
		Thus, the vectorization process in the Wetmore
		'713 Patent that results in vectorized programs (data
		table) having table pointers with offsets are "invariant
		references" under the '552 Patent's label marks
		example and also under the Patent Owner's
		construction, since the table pointers with offset will
		be "the same" in both the vectorized old program and
		vectorized new program.
(c) generating said	(c) generating	The Wetmore '713 Patent generates the
compact	said compact	compact difference result (the vector patch resource)
difference result	difference result	utilizing at least the modified new data table
utilizing at least	utilizing at least	(vectorized new program) and modified old data table
said modified new	said modified new	(vectorized old program). (Wetmore '713 Patent
data table and	data table and	col.10 l.62 - col.11 l.12.)
modified old data	modified old data	
table.	table.	

### **Server-Side Dependent Claims 11 and 24:**

Claim Element	The Wetmore '713 Patent
11. The method of claim 8, further	To perform patching, the Wetmore
comprising the step of: (d) storing said	'713 Patent explains that the client is provided

Claim Element	The Wetmore '713 Patent
compact difference result on a storage	with a loading routine via the system disk that
medium.	loads the proper vector resource patches
24. The system of claim 21, wherein said	following a version check. (Wetmore
processor is further capable of storing said	'713 Patent col.11 ll.34-40.) Thus, the compact
compact difference result on a storage	difference result (vector patch resource) is
medium.	stored on a storage medium (system disk).

### **Server-Side Dependent Claims 28/8 and 28/11:**

Claim Element	The Wetmore '713 Patent
28 [28/8, 28/11]. A processing device having	The Wetmore '713 Patent provides a
associated therewith a storage medium which	processing device having associated
holds compact difference result data that was	therewith a storage medium (system disk)
generated by the method of anyone of claims	which holds compact difference result data
8 to 11.	(vector patch resource) that was generated
	by the method of claims 8 and 11.

### **Server-Side Dependent Claims 45 and 58:**

Claim Element	The Wetmore '713 Patent
45. The method of claim 42, further	To perform patching, the Wetmore
comprising the step of: (d) storing said	'713 Patent explains that the client is
compact difference result on a storage	provided with a loading routine via the
medium.	system disk that loads the proper vector
58. The system of claim 55, wherein said	resource patches following a version check.
processor is further capable of storing said	(Wetmore '713 Patent col.11 ll.34-40.)
compact difference result on a storage	Thus, the compact difference result (vector
medium.	patch resource) is stored on a storage
	medium (system disk).

### **Server-Side Dependent Claims 62/42 and 62/45:**

Claim Element	The Wetmore '713 Patent
62 [62/42, 62/45]. A processing device	The Wetmore '713 Patent provides a
having associated therewith a storage	processing device having associated
medium which holds compact difference	therewith a storage medium (system disk)
result data that was generated by the method	which holds compact difference result data
of anyone of claims 42 to 45.	(vector patch resource) that was generated
	by the method of claims 42-45.

Accordingly, each and every limitation the server-side independent claims (*i.e.*, claims 8, 21, 42, and 55) and server-side dependent claims 11, 24, 28/8, 28/11, 45, 58, 62/42, and 62/45 of the '552 Patent is met by the Wetmore '713 Patent, and therefore, these claims are anticipated by the Wetmore '713 Patent under 35 U.S.C. § 102(b).