Page 1 UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD GOOGLE, INC., NEST LABS, INC., ) and DROPCAM, INC. ) ) Petitioners, ) ) V. e.DIGITAL CORPORATION ) Patent Owner. ) \_\_\_\_\_ Case No. IPR2015-01470 | Case No. IPR2015-01473 Patent No. 8,311,522 | Patent No. 8,311,523 \_\_\_\_\_ Case No. IPR2015-01471 | Case No. IPR2015-01474 Patent No. 8,315,618 | Patent No. 8,311,524 \_\_\_\_\_ Case No. IPR2015-01472 | Case No. IPR2015-01475 Patent No. 8,306,514 | Patent No. 8,315,619 \_\_\_\_\_ DEPOSITION OF DAVID H. WILLIAMS TAKEN BY ANTON N. HANDAL, ESQ. PRO HAC VICE MARCH 15, 2016 DIGITAL EVIDENCE GROUP 1726 M Street NW, Suite 1010 Washington, DC 20036 (202) 232-0646 e.Digital Corporation Exhibit 2013 - Page 1

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1	DEPOSITION OF DAVID H. WILLIAMS, produced, sworn,
2	and examined on March 15, 2016, at the offices of
3	Thompson Coburn LLP, One US Bank Plaza, Suite 3500, St.
4	Louis, Missouri, 63101, before Karen M. Russo, Certified
5	Shorthand Reporter within and for the State of Missouri,
6	United States Patent and Trademark Office, Before the
7	Patent Trial and Appeal Board, Google, Inc., Nest Labs,
8	Inc., and Dropcam, Inc., Petitioner, vs. e.Digital
9	Corporation, Patent Owner.
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22	e.Digital Corporation
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Page 3 1 **APPEARANCES** 2 3 FOR THE PETITIONERS: 4 Sterne Kessler Goldstein Fox Michael V. Messinger, Esq. 5 Zhu He, Esq. 1100 New York Avenue, NW 6 Washington, DC 20005 7 202.371.2600 8 9 10 FOR THE PATENT OWNER: Handal & Associates 11 Anton Handal, Esq. 12 750 B Street Suite 2510 13 San Diego, CA 92101 619.544.6400 14 ALSO PRESENT: 15 San Diego Patent Prep & Pros, Inc. Mary Fales, President 16 16870 W. Bernardo Drive 17 Suite 400 San Diego, CA 92127 18 and 19 e.Digital Fred Falk, President & CEO 20 16870 West Bernardo Drive Suite 120 21 San Diego, CA 92127 e.Digital Corporation Exhibit 2013 - Page 3 22 858.304.3016 x202

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3	WITNESS: I	David H. Williams	Page
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8			
9	Exhibit	Description	Page
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11	2005	March 2015-V6-4.doc CV	75
12	2006	March 2015-V6-5.doc CV	77
13	2007	CV_September_2015-5.doc	78
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1	STIPULATION
2	IT IS HEREBY STIPULATED AND AGREED by and between
3	counsel for the parties that this deposition may be taken
4	in shorthand by Karen M. Russo, CSR, RPR, and afterwards
5	transcribed into printing, and signature by the witness
6	is waived.
7	DAVID H. WILLIAMS,
8	of lawful age, being first duly sworn to tell the truth,
9	the whole truth, and nothing but the truth, deposes and
10	says on behalf of the Patent Owner as follows:
11	DIRECT EXAMINATION
12	BY MR. HANDAL:
13	Q. Good morning, sir. How are you today?
14	A. Good. How are you?
15	Q. We met earlier. My name is Tony Handal.
16	MR. MESSINGER: Objection. I would just
17	like to object for the record that while a motion for Pro
18	Hac Vice has been filed, counsel is not recognized as
19	counsel in this proceeding under Rule 42.10C.
20	MR. HANDAL: But notwithstanding, you're
21	not objecting to my inquiring of this witness any
22	questions this morning? e.Digital Corporation Exhibit 2013 - Page 5

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1	did immediately after graduation involved working on the
2	F15 radar converting a portion of their system to the
3	next generation of processors called 8086.
4	Q. Who was that? You worked on that for who?
5	A. Hughes Aircraft Company.
6	Q. Hughes. What years?
7	A. '85 to '87 or, excuse me, '83 to '85.
8	Q. Okay. What was the state of the communications
9	business or technology in 1983?
10	A. Also
11	MR. MESSINGER: Objection, scope.
12	A very embryonic. There was AT&T and some
13	emerging players in terms of the wireline, what's
14	referred to as the wireline business, with I believe
15	some of the antitrust was associated with AT&T going on
16	around that time. I don't remember the exact dates. The
17	mobile industry was even more embryonic in terms of a
18	whole variety of very small players starting to build out
19	aspects, but mobile was very limited in terms of, you
20	know, both its technology capabilities as well as market
21	penetration at that time.
22	Q. (By Mr. Handal) Now, with respect to
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1	microprocessor, your emphasis in strike that.
2	With respect to your work related to micro-
3	processors, what design tasks did you undertake and when?
4	A. Well, a variety of coursework over the course
5	of my double E degree, in particular my work for Hughes
6	Aircraft Company, actually had me designing a
7	microprocessor-based circuit board again for the F15
8	radar that included using the 8086 as a base for
9	interfacing to a whole variety of subsystems and
10	processing a variety of software applications.
11	Q. So if I understand your testimony, what you're
12	telling me is that in connection with your work at Hughes
13	Aircraft, you designed a circuit board with a vintage
14	microprocessor of that day?
15	MR. MESSINGER: Objection, form.
16	A. Well, it wasn't vintage at that time. It's
17	vintage now, but it was considered a leading edge
18	processor at that time.
19	Q. (By Mr. Handal) And at that time being?
20	A. 1983 to '85.
21	Q. All right. Now, was that a what was the
22	ultimate outcome of that work? Was it ever integrated
	e.Digital Corporation Exhibit 2013 - Page 7

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1	into a final device?	
2	A. As far as I'm aware of, yes. I left when it	
3	was just going into essentially the manufacturing	
4	engineering side of things, but certainly the entire F15	
5	radar, which at that time was essentially an analog-based	
6	system, was converted to essentially an entirely digital	
7	based of which this processor would have been a key part	
8	of that, presumably.	
9	Q. But the circuit board that you worked on or	
10	let me ask you, were the sole designer?	
11	A. No.	
12	Q. You were working in a team with other	
13	designers?	
14	A. Yes, but I was what I would call the primary	
15	designer.	
16	Q. Were you the lead on that circuit board?	
17	A. Yes.	
18	Q. And in terms of functionality, I mean what	
19	significance was I guess they're all significant, but	
20	in terms of the overall project, how big was this circuit	
21	board in relevance?	
22	MR. MESSINGER: Objection, form. e.Digital Corporation Exhibit 2013 - Page	

	Page 17
1	A. It was there were if I recall, bear in
2	mind this is 30-odd years ago, there were several, call
3	that eight or ten, major units of the radar. This
4	circuit board was going to be a significant part of one
5	of those units called the A to D converter, analog to
6	digital converter, to take radar signals and convert them
7	from their analog form to digital form for use by other
8	systems.
9	Q. So this circuit board was in the context of the
10	A to D conversion?
11	A. Correct.
12	Q. And in connection with your work on the circuit
13	board, did you have any involvement with what's been
14	referred to as a digital signal processor, DSP?
15	A. If I I don't recall the term being
16	explicitly used at that time and digital signal
17	processor, you know, again the nature of the unit was for
18	analog to digital conversion overall. So bottom line is
19	I don't remember specifically that phrase being used.
20	Q. Okay. And let me see if I get this right. So
21	an analog signal comes into the system from where?
22	A. Well, originally from the antenna array on the
	e.Digital Corporation Exhibit 2013 - Page 9

	Page 19
1	Q. (By Mr. Handal) Okay. So then you left Hughes
2	in or around 1985?
3	A. Correct.
4	Q. Where did you go?
5	A. I went to get my MBA at the University of
6	Texas.
7	Q. Was it a full time?
8	A. Yes.
9	Q. So two years?
10	A. Yes.
11	Q. So then after graduation did you have an
12	emphasis in U of T?
13	A. Yes, they had started a new program called
14	information systems management which I was part of the
15	first class which was intended what was then to be kind
16	of a, if not radical, a significant departure from both
17	regular MBA programs as well as what would be called
18	management information systems which was kind of a
19	technology center field. And the idea was this program
20	would kind of bring them together. And that was a formal
21	sub emphasis within the MBA program.
22	Q. Okay. But to be clear, it wasn't a technical
	e.Digital Corporation Exhibit 2013 - Page 10

	Page 20
1	discipline?
2	A. Yeah, primarily it was my degree is an MBA.
3	Q. Okay. After graduating from Purdue it was
4	Purdue, right?
5	A. Yes.
6	Q with a degree in engineering electrical
7	engineering, did you undertake any other postgraduate or
8	other education in electronics or electrical engineering?
9	A. Formal education, no.
10	Q. Yes, okay. After graduating from University of
11	Texas about 1987, '88
12	A. '87.
13	Q did you obtain gainful employment in any
14	way?
15	A. Yes. I joined what was then Touche Ross which
16	has evolved since then to become Deloitte Consulting, I
17	believe, unless they changed it recently and they
18	probably have, where I focused primarily on technology-
19	related consulting engagements.
20	Q. How long were you with Touche?
21	A. About five years.
22	Q. So from '87 to e.Digital Corporation Exhibit 2013 - Page 11

	Page 21
1	A. '91, so four and a half, I think.
2	Q. During that time period did you do any
3	technical engineering work?
4	A. Yes.
5	Q. What did you do?
6	A. In particular one of my biggest engagements,
7	which actually took about a year and a half, was
8	designing and implementing and being essentially being
9	the sole designer and implementer, key implementer, of
10	what would now be considered bringing something that was
11	in a cloud-computing environment inhouse. Back then it
12	was called a service bureau where the core applications
13	of the company were done by an external entity. And the
14	team, the broad team I was on was responsible for
15	essentially building out what was called a data center
16	and bringing all of that activity inhouse. I was
17	responsible for the communications portion of that which
18	involved primarily interfacing with a couple hundred
19	retail stores that was this company's primary business.
20	Q. Okay. So if I understand you correctly, this
21	company was a client of Touche Ross's?
22	A. Yes. e.Digital Corporation Exhibit 2013 - Page 12

	Page 22
1	Q. It wasn't Touche Ross?
2	A. No.
3	Q. This wasn't an inhouse project?
4	A. No.
5	Q. It was a retail-based operation?
6	A. Yes.
7	Q. Retail-based client. And they had a number of
8	locations, and they wanted to consolidate data in one
9	location and a server data center somewhere?
10	A. Yeah. They wanted to have full control over
11	their entire information systems and technology
12	infrastructure.
13	Q. Okay. And if I understand you correctly, you
14	were involved in the designing and implementing the
15	communications aspect of getting the data from the retail
16	locations to the data center?
17	A. Correct.
18	Q. All right. Anything else? Have I
19	mischaracterized it?
20	A. No, that was a good characterization.
21	Q. I'm trying to listen to you as we go.
22	Obviously, if I get it wrong, you know, just say, hey, e.Digital Corporation Exhibit 2013 - Page 13

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1	that's not right, you did it incorrectly.
2	Now, with respect to that function of designing
3	and implementing the communications aspect of bringing
4	the data from the retail locations to the data center,
5	what did you do?
6	A. I designed the network, meaning identified the
7	key requirements in terms of what data needed to be
8	extracted from the retail environment, particularly their
9	point of sale, cash registers, which also required
10	understanding the technology within the cash register to
11	understand what data was available, how it was
12	structured, how it could be extracted, what kind of
13	interfaces needed to be done, what kind of programming
14	needed to get it out which, believe me, at that time was
15	not a simple task, and then developing the design
16	requirements in terms of when it needed to be extracted,
17	as well as on the data center side of things, how all
18	that data would be received, when those point of sale
19	devices would be polled, all the infrastructure that
20	would be required to get that information in terms of
21	modems and communications lines and so on and so forth.
22	And then on the data center side, actually then
	e.Digital Corporation Exhibit 2013 - Page 14

Page 24 1 determining how that data would then be structured, 2 formatted, consolidated, etc., to feed into the other 3 applications behind in terms of for financial accounting, 4 marketing sales purposes, etc. 5 Okay. So let's look at it this way. Let's Q. 6 look at the project with on one end of the spectrum being 7 the guy that had the idea and on the other end of the 8 spectrum the guy actually writing the code, all right. 9 So you've got a spectrum of responsibilities between 10 those two end points. Did you do any writing, any code 11 writing? 12 Α. No. 13 Q. Did you do any hardware circuit board design? 14 I did what I would call hardware system design Α. 15 in terms of the -- we had modem arrays because you 16 couldn't just -- at that time in particular you couldn't 17 just have one modem and go and connect with 200 stores. 18 You had to have a couple dozen if you expected to get 19 that data at any time in your lifetime. So I designed 20 the hardware array and full rack and all the different 21 communications, slotting and calendaring and all those 22 associated designs, basically everything that needed to e.Digital Corporation Exhibit 2013 - Page 15

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1	be done to connect with and receive the data from the
2	stores.
3	Q. Okay. But with respect to your reference to
4	the modem, you didn't design the modem. You selected a
5	modem?
6	MR. MESSINGER: Objection, form.
7	A. Correct.
8	Q. (By Mr. Handal) So what you did is you
9	selected the existing, for lack of a better term and I
10	use the term loosely, off-the-shelf products that were
11	available to you to fit into the system?
12	A. I had I would vary what you said in terms of
13	I had to design the broader system. It's not like today
14	or maybe, you know, five years ago where you have a
15	modem, buy a modem at Walmart or whatever and slap it in
16	and connect it. At that time modems were not nearly as
17	sophisticated, so they required a lot of design work and
18	hardware modification work in order to actually get them
19	to work, particularly in a broader modem array that I had
20	to design at that time.
21	Q. Okay. But to be clear, you did not do any
22	circuit board design in connection with that engagement?
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	Page 26
1	MR. MESSINGER: Objection, form.
2	A. Correct.
3	Q. (By Mr. Handal) And did you do any circuitry
4	design, like engineering level circuitry design on that
5	system?
6	MR. MESSINGER: Objection, form.
7	A. It's a sliding scale, but my view of the design
8	of the couple dozen modems and the overall integration
9	and everything associated with getting that to work with
10	the point of sale, as well as the back end accounting
11	systems, I would view that as involving circuitry design.
12	Q. (By Mr. Handal) Okay. This entire system, was
13	it wired or were any aspects of it wireless?
14	A. It was wired.
15	Q. All right. So we identified that while you
16	were at Touche you did this one project that we've been
17	discussing for a retail client that involved engineering
18	design work. Were there any other engineering design
19	functions that you were given or that you performed other
20	than the one that you described for me while you were at
21	Touche Ross?
22	A. Most not all but most of my additional
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1	projects at Touche involved some sort of technology
2	element, whether it was implementing new accounting
3	systems or it was modifying a bank data center to
4	essentially prepare it for sale. This was back when all
5	the Texas banks failed, savings and loans failed. So
6	that nearly most of it was technology related in some
7	form or fashion.
8	Q. Was it all wired or any of it wireless?
9	MR. MESSINGER: Objection, form.
10	A. At that time I believe it was all wired.
11	Q. (By Mr. Handal) Following your employment at
12	Touche Ross, I think that takes us through 1991?
13	A. Correct,
14	Q. What did you do next?
15	A. I joined what was then Booz, Allen, & Hamilton
16	which is now structured differently, but at that time it
17	had two arms, a government arm which is what everybody
18	kind of knows, NSA stuff, and a commercial management
19	consulting arm. Within that I was within the commercial
20	side of things, and within the commercial side there is
21	an information strategy unit which is what I joined.
22	Q. What's the information strategy segment?
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1	A. It essentially had any projects that
2	involved technology that the business guys didn't know
3	what to do, they would call on us to help them out. That
4	is pretty much it, bottom line.
5	Q. How long were you at Booz Allen?
6	A. Two years.
7	Q. To '93?
8	A. Yes.
9	Q. While at Booz Allen were you involved in any
10	electrical engineering design work?
11	A. Not really, no.
12	Q. Okay. After Booz Allen where did you go?
13	A. What was then Anderson Consulting which became
14	Accenture, A-C-C-E-N-T-U-R-E.
15	Q. From when to when?
16	A. From '93 to 2002.
17	Q. First let me ask you, where did you work?
18	A. I joined the information technology strategy
19	unit which was a new unit that then Anderson Consulting
20	was starting up.
21	Q. During that time, from '93 to 2002, were you
22	involved in, for Anderson Consulting or Accenture, any
	e.Digital Corporation Exhibit 2013 - Page 19

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1	electrical engineering design work?
2	A. In terms of circuit board design, type level
3	design, no. In terms of systems design of designing
4	systems to do everything from collect and communicate and
5	process data from various sources, yes.
6	Q. Okay. So let's see if we can define a little
7	more clearly the difference here for the purposes of
8	being on the same page, and I'll let you do it. What is
9	systems design as you characterized it?
10	MR. MESSINGER: Objection, form.
11	A. Well, if a circuit board if a circuit board
12	is made up I'll put it in the context of kind of what
13	we already discussed. If a circuit board has a
14	microprocessor and maybe some other chips, that's a
15	system unit, that circuit board. It then by itself
16	usually does not cannot do anything in terms of
17	providing end result of whatever it is you're trying to
18	do. So it has to be incorporated with other circuit
19	boards into some sort of unit. That can be considered
20	systems design or it could be considered circuit design,
21	just depending on what's required to integrate those
22	circuit board individual circuit boards within, you e.Digital Corporation Exhibit 2013 - Page 20

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1	know, that box. And then that box usually is not enough
2	either to provide whatever it is the end purpose is, so
3	there's a variety of other boxes that it will need to
4	interface with. There's the communications links that
5	need to be established between the boxes. There's the
6	interfaces in terms of extracting and transmitting data
7	associated with those boxes. There's the aggregation
8	processing analyzing of the data that is generated by
9	those boxes. There's the whatever the original data
10	source that needs to be collected, like, for example, the
11	point of sale stuff that I talked about, that kind of
12	design work needs to be done, as well as ultimately
13	interfacing to whatever other systems need to be done to
14	actually ultimately wind up being able to use that data.
15	So all of that is what I would call systems design work,
16	which to me is just a very logical extension of circuit
17	board level data just on a different scale.
18	Q. Okay. So with respect to the work that you did
19	at Anderson Consulting, how much of it was how much of
20	the system design work did you do that was on a circuit
21	board level?
22	A. On a circuit board level, none.
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1	Q. Okay. Did you do any what I would call
2	electrical engineering work while you were at Anderson
3	Consulting, Accenture?
4	MR. MESSINGER: Objection, form.
5	A. Yes, in the context of what I just described as
6	systems design, which I view very much as being
7	electrical engineering work, I would say at least half of
8	my work involved that kind of design work.
9	Q. (By Mr. Handal) Let's talk about one of the
10	biggest, and obviously we don't need to know names, but
11	one that comes to your mind while you were at Anderson,
12	Accenture, what type of project was it?
13	A. It was well, I can describe the client. It
14	was AT&T. At that point in time AT&T was strictly in the
15	long distance business, and, you know, once upon a time
16	AT&T had everything, and then part of the antitrust they
17	had to get rid of their local business, for whatever
18	logic there was at that time. And the regulations
19	shifted again such they were allowed to get back into the
20	local business. And so they had lost a lot of that
21	expertise when they went to purely a long distance
22	business, so they contracted with Accenture to help them
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1	get back into long distance work. So I led a team in
2	particular that was focused on one of the regions that
3	corresponded to that time, regional bill operating
4	companies in the midwest region, what was the Ameritech
5	region, and led the team in designing all the
6	essentially the communications requirements and
7	implementation in terms of how they would get back into
8	the local business. In particular this was involved
9	primarily with subcontracting with Ameritech to provide a
10	lot of those services, but there was also a lot of
11	systems design work around that in terms of being able
12	to, you know, take a customer order, process it, split it
13	into all the different pieces it needed to in terms of a
14	customer information system and sales ordering system and
15	financial system and so on, and then providing the
16	specific customer network requirements to Ameritech and
17	then overseeing, making sure that they did that
18	implementation properly and then monitor the ongoing
19	operation of that. So that was what again it would be
20	kind of a systems design, systems management kind of
21	overall engagement, is the way I would characterize it.
22	Q. So your perspective was from a holistic view of
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1	problem to solution?
2	A. Yes.
3	Q. As opposed to solving a component problem as a
4	part of a bigger solution?
5	MR. MESSINGER: Objection, form.
6	A. Yes, it was very much a broad end to end from,
7	you know, have to somehow get local service to a
8	customer, how do we do that to, you know, did Customer A
9	get the service that they ask for.
10	Q. (By Mr. Handal) Was any of it wireless at that
11	time?
12	A. No.
13	Q. Okay. Let's step forward after 2002. Where
14	did you go next?
15	A. I left Accenture and formed my own consulting
16	firm which is the firm I have today, E911-LBS Consulting.
17	And I the genesis of that was in the mid to late
18	1990's I was getting heavily into the wireless world,
19	mobile world. And in particular I did a project for what
20	was then Nextel, which no longer exists but it was
21	absorbed by Sprint, to help them develop their location-
22	based services strategy. That was in reaction to the
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1	passage of the 1996 Telecommunications Act that required
2	carriers to be able to track cell phones. So I was part
3	of it, and Nextel wanted to understand how they could
4	potentially commercialize from the technology they were
5	being required to implement. So that became a passion of
6	mine, and then when I left Accenture I formed my own
7	consulting company to focus on that kind of work.
8	Q. So LBS, I gather that means location based
9	services?
10	A. Correct.
11	Q. For the lay person, what does that mean?
12	A. It's utilizing a person's place or thing
13	location in the form of a device that can determine your
14	location such as by a GPS chip to provide additional
15	to provide some sort of services based in part or in full
16	on whatever that location is. So the easiest example of
17	that is a navigation application in terms of determining
18	where you are, where you want to go, how you want to get
19	there.
20	Q. Okay. And your function at that time or the
21	technology at that time that you were involved in focused
22	mainly on identifying a user's location?
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Page 38 where they were and they ended up dying or other stuff. And so as part of the broader '96 Act, congress mandated that the wireless carriers had to find certain percentage and types of phones over the next several years in order to address that. So if I understand your testimony correctly, in Ο. the early 2000 time frame the focus in the wireless area with respect to location based services was to know where the user's location was so as to comply with the Act? Yes, that was the primary focus of the wireless Α. carriers who were the primary people interested in that technology. Q. And you were actively involved in helping customers or clients who were involved in the wireless space with designing and implementing systems that would help them identify a user's location? MR. MESSINGER: Objection. Α. That was part of my work, yes. (By Mr. Handal) Was there anything else? Ο. Α. Well, various work associated with that. Again, finding a person's location, as important as it was, was really the tip of the iceberg. It's what you

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<sup>1</sup> did with that location afterwards that ultimately <sup>2</sup> provided the value of whether it was interfacing with <sup>3</sup> emergency responders or ultimately providing other type <sup>4</sup> of navigation child-tracking services.

<sup>5</sup> Q. So at that time I think what you're telling me, <sup>6</sup> and we're talking the early 2000 time period here, there <sup>7</sup> was also an interest in using that information about the <sup>8</sup> location of the user for tracking children and allowing <sup>9</sup> 911 or emergency personnel to locate the user or for <sup>10</sup> navigation?

11 The wireless carriers, again the primary Α. Yes. 12 people interested in this being mandated to implement 13 that technology with no revenue associated with it, that 14 was one train of activity, hence my catchy name E911. 15 And then the other train of activity was, okay, since 16 we're spending billions of dollars, is there some way we 17 can make some money out of it. And that was looking at 18 what I characterize as the commercial location based 19 services side of things. You know, navigation and 20 children tracking were deemed as being two of the killer 21 apps for that technology at that time. 22 Any other so called killer apps or any Q. Okay. e.Digital Corporation

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	Page 40
1	other apps that you're aware of at that time that related
2	to this location based protocol?
3	A. Those were the primary ones, certainly not the
4	only ones. But in terms of wireless carrier focus and
5	experimentation, that was the primary one. There were
6	still many issues involved to even essentially preventing
7	those applications to becoming a reality such as
8	communications network speed and limitations of the
9	devices at that time.
10	Q. All right. So is it safe to say that in the
11	early 2000 time period the emphasis in the location based
12	services consulting field that you were involved in was
13	locating or identifying the user's location? That was
14	the focus of that business that you were involved in?
15	MR. MESSINGER: Objection, form.
16	A. And the and all of the related work needed
17	to actually be able to utilize that information. So I
18	would append that to what you said.
19	Q. (By Mr. Handal) Okay. And that work needed to
20	utilize that, I mean, I don't quite understand what the
21	appending is, so can you explain the appendage?
22	A. Well, in terms of a location based service
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	Page 41
1	where you've got the person's device on one end and then
2	maybe the person's device again or somebody else's
3	commuter device on the other end, there are many parts in
4	between that take the location that's derived either from
5	the device, or some carriers actually did it from
6	essentially network triangulation to put it simply, and
7	then being able to take that location, make it into a
8	usable form like an address, being able to put it into an
9	getting that data through a network into some sort of
10	computer server to be able to analyze or process that
11	data into some other form, you know, child tracking and
12	then what have you, or navigation, and then provide that
13	information, modified information in whatever new form,
14	back out to that same said user or to somebody else. So
15	when you say you can't just say, when you're talking
16	about a location based service, that it's all about the
17	location. There's many other piece parts that actually
18	then need to be utilized in order to get to something
19	that is usable to that user or somebody else.
20	Q. I think I understand you. So when I say about
21	the location of the user, the information from the user
22	is just one part of a series of technologies that need to
	e.Digital Corporation Exhibit 2013 - Page 29

	Page 42
1	come into play in order to understand where the user is
2	or what the user's location is? Is that what you're
3	saying?
4	A. Partly.
5	Q. Let me ask it this way. So the user's device
6	would be what?
7	A. User's device, the mandate was around mobile
8	phones.
9	Q. So in the context of your experience, the
10	user's device was a mobile phone?
11	MR. MESSINGER: Objection, form.
12	A. At that time the focus was on a mobile phone.
13	There are many other devices that are not were not
14	part of the mandate that certainly in today's world,
15	whether it be dedicated, you know, GPS trackers you could
16	slap on a car or asset management for tracking a boat or
17	whatever, or finding your lost computer or wearable
18	stuff, there's almost no limit now to the types of
19	devices. Back then the focus was mobile phones.
20	Q. (By Mr. Handal) Okay. Listen to my question.
21	At the time that you were involved in this project, in
22	these projects back in the early 2000's, very late
	e.Digital Corporation Exhibit 2013 - Page 30

	Page 43
1	1990's, the focus was on the user's phone, or were there
2	other technologies that you were involved with?
3	A. Yes. Because the way the FCC gave the
4	carriers, say you tell us how you're going to implement
5	this. Half the carriers went the phone, hey, let's put a
6	GPS chip. The other half said, no, that's too expensive,
7	we don't want to retrofill all our phones, blah, blah,
8	blah, we're going to figure it out from our network. And
9	ultimately it's let's do some sort of network
10	triangulation, compute the location within our network,
11	and get the location that way. So to answer your
12	question, was it a focus of the phone? Ultimately, you
13	wanted to get the location of the phone; how it was done
14	varied.
15	Q. So your experience is with a device that the
16	user would presumably be in possession of and then you've
17	just identified two protocols, one with GPS and one using
18	network triangulation. Those were essentially it in that
19	time period, right?
20	A. Yes.
21	Q. All right. And what was the state of the art
22	with respect to GPS technology in that early 2000 time e.Digital Corporation Exhibit 2013 - Page 31

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1 frame?

2 MR. MESSINGER: Objection, scope. 3 It was not embryonic, but it wasn't mature at Α. 4 least for commercial purposes. The global positioning 5 satellite system had been in operation, I believe, since 6 the '80's and various other types of satellite base like 7 differential -- well, other types of satellite based 8 location systems had been utilized by the military even 9 before that. But it wasn't really until this mandate 10 forced everybody's hand that the commercial use of GPS 11 really started to attract interest. 12 Q. (By Mr. Handal) So it was at the early stages 13 of its development? 14 Yes, and so the -- it was, in terms of GPS chip Α. 15 development, for example, the GPS chip manufacturers at 16 that time up to then hadn't really had to worry about the 17 box that it was in and the antenna array because the box 18 could be big and the antenna could be big, where now you 19 had to stuff it inside a pretty small device and you had 20 limitations in terms of what a user would accept in terms 21 of antenna size and of course in particular battery power and all sorts of other issues that weren't really issues 22 e.Digital Corporation Exhibit 2013 - Page 32

	Page 45
1	up to that point in terms of the military, or not nearly
2	as big a issues. And so then of course the cost
3	associated with getting those into phones and then
4	everything about swapping them out and the end user base.
5	So there's a lot of issues that had to be dealt with.
6	Q. Okay. Now, with respect to the engagement that
7	you were involved in for Nextel, what systems or system
8	were they looking at? Were they looking at triangulation
9	base or GPS base?
10	A. GPS.
11	Q. And with respect to the GPS based technology
12	that you were involved in helping them develop, what
13	function did you play?
14	A. A couple different ones. One was leading the
15	development of what I call their location based service
16	strategy, which essentially was, in a nutshell, how do we
17	make money out of this technology we are being forced to
18	implement? What products seem to be of high potential?
19	What are the product requirements for that? What are the
20	technology underpinnings associated with that in terms of
21	how we get location, in particular what we do with the
22	location information once we get it, processing it,
	e.Digital Corporation Exhibit 2013 - Page 33

	Page 58
1	Q. So prior to middle of last year were the words
2	"context aware" used in your CV at all?
3	A. I'm not sure. Yes, it was. In Page 3, the
4	Nextel description which is the fourth bullet point, the
5	last sentence, and I'm pretty sure that hasn't changed
6	for awhile.
7	Q. You're pretty sure that hasn't changed for
8	awhile. Is that what your testimony is?
9	A. I think so.
10	Q. How long is awhile?
11	A. I don't know. It could be years.
12	Q. And that's in connection with the Nextel
13	engagement that you talked about earlier?
14	A. Correct.
15	Q. So was there an element of context awareness in
16	that Nextel engagement?
17	A. Yes.
18	Q. What was that?
19	A. As part of the location based services strategy
20	development, as part of the strategy part was looking
21	down the road as to what else might be used besides
22	location in terms of providing different types of
	e.Digital Corporation Exhibit 2013 - Page 34

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1	services to people. So among other things, we engaged
2	with a variety of firms to essentially help do brain-
3	storming, projections, future projections, that type of
4	visionary type stuff. For example, a company called Roku
5	where it was developing not the Roku that's known
6	today, I don't think they exist anymore. But to
7	incorporate other elements, Roku is around the seven
8	Japanese senses, who, what, when, how, why kind of thing
9	to really get into how can we develop the presence, how
10	can we really know what a person is doing to help tailor
11	whatever services we have to really meet their needs. So
12	that was kind of a significant side project in terms of
13	doing that exploration.
14	Q. Okay. Let me understand this a little bit more
15	clearly. First of all, it was strategizing forward-
16	looking projects. Is that your testimony?
17	MR. MESSINGER: Object to form.
18	A. That was the Nextel engagement, while having
19	the primary purpose of developing a location based
20	service strategy in the overall enabling infrastructure,
21	there was an additional smaller project helping doing
22	kind of present what is presence, what kind of future
	e.Digital Corporation Exhibit 2013 - Page 35

Page 60 1 services, what kind of things people will need, presence 2 being the foundation of what those applications might 3 need. 4 Ο. Okay. But listen to my question. The 5 involvement in context with respect to the Nextel 6 engagement was in brainstorming and strategizing the 7 development of future apps, true? 8 Α. That was part of it. 9 So that was part of it. Was there any Q. Okay. 10 implementation? 11 Α. Of presence? 12 We're talking about context aware. Q. 13 MR. MESSINGER: Objection, form. 14 At that time, no. Α. 15 (By Mr. Handal) No, okay. Q. 16 The technologies required for such context Α. 17 services were far outstripped what was available at that 18 time. 19 What do you mean by that? So it just wasn't Q. 20 feasible to do at that time? 21 Α. Correct. 22 Q. And they recognized that at that time? e.Digital Corporation Exhibit 2013 - Page 36
	Page 61
1	MR. MESSINGER: Objection, form.
2	A. Yes.
3	Q. (By Mr. Handal) And you recognized that at
4	that time?
5	MR. MESSINGER: Objection, form.
6	Q. (By Mr. Handal) Right?
7	A. I came to recognize it, particularly given the
8	challenges that we were having just getting location, let
9	alone any other types of information.
10	Q. Okay. So what specific context awareness were
11	you discussing with Nextel in or about that time frame
12	specifically?
13	A. Specifically, for example, local search which
14	as its known today is, you know, you want to find out the
15	nearest McDonald's, you type in McDonald's and presumably
16	your location is on and it will print and bring up
17	hopefully the closest McDonald's. That kind of
18	discussion was going on, but the problem is, then as well
19	as now, just what you type in may or may not be what it
20	is you originally intended. You might want to seek out
21	employment opportunities at McDonald's, for example,
22	instead of finding a place to eat. So the discussion
	e.Digital Corporation Exhibit 2013 - Page 37

	Page 62
1	would be around presence, well, what other information
2	might help us pinpoint or refine that. So instead of
3	pulling up a McDonald's location, we bring up the
4	McDonald's website or something like that.
5	So that was the kind of, you know, additional
6	information that will ultimately tell us or get us to why
7	it is you're typing McDonald's, and that's not just
8	location. That potentially could be when you're doing
9	it, past history. It could be potentially not in
10	McDonald's case probably, but potentially other sensory
11	data which were limited at the time, but broadly we were
12	brainstorming. So it's much further beyond again getting
13	to the context so hopefully whatever application you were
14	doing got as close to your reason for doing whatever you
15	were doing instead of being way off the mark.
16	Q. So the reason for doing whatever you were
17	doing, that's what it was related to?
18	A. That was an example which was important in
19	terms of local search. Other applications would have
20	potentially other reasons for what you were doing.
21	Q. Name one. And I want you to confine your
22	answer to what you were discussing at that time, not
	e.Digital Corporation Exhibit 2013 - Page 38

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<sup>1</sup> based on what you know today. At that time what were you
<sup>2</sup> guys talking about?

3 Nextel at that time was very business customer Α. 4 oriented, so the majority I think -- so in particular what I would characterize as blue collar careers or 5 6 applications was their primary focus, so whether it was 7 field service type dispatch or plumbers or what have you. 8 So one of the applications was around understanding what 9 field service personnel were doing and what their state 10 of activity was for the purposes of, for example, being 11 able to get three field service technician visits in in a 12 day instead of two. Obviously that has a bottom line 13 impact. And so as part of that it involved tracing and tracking where your various field service technicians 14 15 were. But location, while it may help in kind of 16 optimizing routes, it didn't necessarily help in doing 17 other things like scheduling and those kinds of things. 18 So the concept of context would be brought up in that 19 kind of context.

Q. Okay. So hold on a second. You're talking about the status of field service employees, you said that? e.Digital Corporation Exhibit 2013 - Page 39

	Page 64
1	A. Yes.
2	Q. Okay. Specifically how would the system
3	what were you contemplating at that time, not today, that
4	the system would report in terms of status of the field
5	workers
6	MR. MESSINGER: Objection, form.
7	Q. (By Mr. Handal) other than where they are?
8	A. What they were what they were working on as
9	part of their field service, how long they
10	Q. How would the system know that?
11	A. Well, you're asking to get into design
12	elements.
13	Q. Well, that's what you did.
14	MR. MESSINGER: Objection, form.
15	A. It was more strategizing, so identifying what
16	might be key requirements as opposed to the design
17	associated with implementing those requirements.
18	Q. (By Mr. Handal) So this was spitballing ideas
19	to what would be needed?
20	A. Not completely because you wanted it to be
21	hopefully not completely divorced from reality, but it
22	was primarily a vision-strategizing exercise.
	e.Digital Corporation Exhibit 2013 - Page 40

	Page 65
1	Q. So primarily it was, like you said, a vision-
2	strategizing exercise?
3	A. Though, like I said, we engage with companies
4	like this Roku that had this Roku engine that would get
5	into what kind of information they could collect and how
6	it would be done and how it would be brought together, so
7	on and so fort. So we looked at that underlying
8	technology infrastructure. We didn't necessarily get
9	into design work using the Roku engine for a field
10	service context engine. We didn't get to that point.
11	But certainly there was both technology underpinnings, as
12	well as strategic underpinnings associated with that
13	effort.
14	Q. When you say we didn't get into it, who is we?
15	There were other people other than you?
16	A. Yeah, I worked with client teams like I always
17	do.
18	Q. In terms of any product, that would have been a
19	Roku product?
20	A. Actual tangible software, yes.
21	Q. You didn't work for Roku?
22	A. No. e.Digital Corporation Exhibit 2013 - Page 41

	Page 66
1	Q. And you didn't have any vision into what their
2	program was at a foundational level?
3	A. Depending on what you call foundation, yes or
4	no. Foundation in terms of what it is they were trying
5	to do and how they would do it at a what I would call
6	a strategic technical level. Certainly we didn't get
7	into the programming. That's their intellectual
8	property.
9	Q. That was a very important function of that
10	engagement involving Nextel, at least from what you hear
11	from you?
12	MR. MESSINGER: Objection, form.
13	A. It wasn't what I would call critical to the
14	main engagements around the location based service
15	strategy and underlying infrastructure design work, but
16	it was a very interesting and could have possibly been
17	significant input into the location based services
18	strategy if we thought that there was a near term
19	opportunity to incorporate some of the presence concepts
20	into the location based services that we were strategy
21	that we were developing. We ultimately decided that was
22	probably outside the kind of the two-year window we were
	e.Digital Corporation Exhibit 2013 - Page 42

	Page 67
1	looking at and, therefore, it was kind of off to the
2	side.
3	Q. Okay. So when you say here, on Page 3, product
4	strategy including researching and incorporating context
5	aware presence concepts into product device and network
6	engineering plans, in fact there was no incorporating of
7	any context aware presence concept into any product or
8	plan at that time, true?
9	MR. MESSINGER: Objection, form.
10	A. Well, there was in that it was the hope and
11	intent of bringing what was the findings of that effort
12	into the LBS strategy product. The ultimate end product
13	viewed the context aware aspect, parts of that, to be
14	outside of the immediate two-year scope of the LBS
15	strategy.
16	Q. I know, but sir, I'm looking at your resume,
17	and I can only take you at what you say either in writing
18	or in person, and you write, product strategy including
19	researching and incorporating, not researching but
20	researching and incorporating, context aware, slash,
21	presence concepts into product, slash, device and network
22	engineering plans. Now, it is true, is it not, that
	e.Digital Corporation Exhibit 2013 - Page 43

	Page 68
1	there was no incorporating of any context aware presence
2	concept into any product device or network engineering
3	plan at that time?
4	MR. MESSINGER: Objection, form.
5	Q. (By Mr. Handal) True?
6	A. I would have to think about that beyond what
7	I've already said. I could see that, for example, it
8	influencing the need in the network design to have easy
9	what's now called the equivalent of application
10	programming interface, that was uncommon term back then,
11	but to essentially have more of an open architecture than
12	might otherwise have been decided upon because of the
13	ultimate need to interface with third parties such as
14	Roku down the road, as opposed to what was then very much
15	a proprietary closed system on part of practically all
16	wireless carriers.
17	Q. You're just kind of feeling that question now.
18	At the time, though, it is true, is it not, that there
19	was no incorporation of any context aware presence
20	concept into any Nextel product, yes or no?
21	MR. MESSINGER: Objection, form.
22	A. No immediate presence concepts were ultimately e.Digital Corporation Exhibit 2013 - Page 44

	Page 69
1	included in what was essentially a two-year plan.
2	Q. (By Mr. Handal) Okay. Then tell me one concept
3	that was built into the system to leave open the
4	possibility of a context aware presence concept being
5	added later.
6	MR. MESSINGER: Objection, scope.
7	A. I would go back to the network openness as
8	opposed to a closed proprietary system.
9	Q. (By Mr. Handal) Open network versus a closed
10	proprietary network. But that has a whole bunch of other
11	different ramifications; doesn't it?
12	A. Such as?
13	Q. You're the expert.
14	A. That's a wide open question.
15	Q. So then are you telling me are you telling
16	me that deciding on an open network versus a closed
17	network was a determination just so that you could
18	incorporate context aware presence concepts down the
19	road?
20	MR. MESSINGER: Objection, form.
21	A. No. An open network versus closed is not a yes
22	or no question. You can have the vast majority of the
	e.Digital Corporation Exhibit 2013 - Page 45

	Page 70
1	network being totally closed, but a small part of it
2	being, quote, open. So it wasn't if you're going
3	towards, you know, is this part of a grand strategic
4	vision of having an open network? No, it wasn't that big
5	a deal. It was just incorporating, okay, we need to make
6	sure we plan for the future and recognize we're very
7	likely going to deal with third party applications which
8	really weren't much in existence at that time. The
9	tendency for carriers was, if they couldn't build it
10	themselves, they weren't going to do it.
11	Q. (By Mr. Handal) So is it your testimony that
12	this issue of context aware and presence concepts was key
13	focus of what you did for Nextel back in the early 2000
14	period?
15	A. It was part of it. The primary focus was, as I
16	said, on location based services strategy as well as the
17	network infrastructure.
18	Q. Do you put your resumes online?
19	A. Yes.
20	Q. In fact several versions are available online;
21	are they not?
22	A. Well, ideally I only have one current one, but
	e.Digital Corporation Exhibit 2013 - Page 46

Page 74 1 Α. Right. 2 So is it safe to say that you added the line, Q. 3 the sentence that exists in Google 104 after the date of Exhibit 2004? 4 5 MR. MESSINGER: Objection, form. 6 Probably. It's possible that it was on there Α. 7 before and I deleted it for space saving purposes or what 8 have you. But in all likelihood, I added it after that, 9 yeah. 10 (By Mr. Handal) Also notably absent in the Ο. 11 expertise bullet listing on Page 1 is the presence, 12 slash, context aware expertise bullet? 13 Α. Correct. 14 In fact, looking at this CV the word context Ο. 15 isn't anywhere in it? 16 Correct, and as I stated, the resumes as I Α. 17 would either update them or modify them were based on --18 usually I would update or modify them based on particular 19 opportunities, and I would use phrases or terms most 20 relevant to those opportunities. When it comes to 21 presence and context, most people don't understand what 22 those are, so I don't bother putting it in. e.Digital Corporation Exhibit 2013 - Page 47

	Page 76
1	at my resume folder, has probably got 100 different
2	things, 100 different files in there, so it's hard for me
3	to say yes, I know exactly what this is, but it certainly
4	appears to be mine.
5	Q. Okay. Turning to Page 3, see the Nexus
6	location based strategy?
7	A. Uh-huh.
8	Q. But once again we don't see any reference to
9	context aware presence content?
10	A. Correct.
11	Q. And also in the bullet list of expertise you'll
12	note on the first page there is no reference to presence
13	or context aware applications?
14	A. Correct.
15	Q. I'll represent to you, but you can look if
16	you'd like, the word context or presence is not stated or
17	referenced in this CV anywhere.
18	MR. MESSINGER: Objection, form.
19	A. Yes, I would agree and I would reiterate, one,
20	I was either developing these resumes for what I viewed
21	as the broadest possible appeal, or more particularly I
22	would be updating it based on particular opportunities
	e.Digital Corporation Exhibit 2013 - Page 48

	Page 77
1	and usually in particular opportunities I would also
2	hopefully generally improve it and thus use that as my
3	general online resume. And again, for the purposes of
4	space saving and just general appability, people don't
5	really know what presence and context is. And I believe
6	I said at the beginning of all this that I probably or
7	I don't remember exactly when I added those words, but I
8	think I did it in response to a particular opportunity
9	prior to this one sometime last year. I just don't
10	recall.
11	Q. Hand you what's been marked 2006.
12	(Exhibit 2006 was marked for identification.)
13	MR. HANDAL: Same objection?
14	MR. MESSINGER: Yeah, objection,
15	authentication.
16	Q. (By Mr. Handal) Now, this is another 2015 March
17	CV. This is version 6-5. So you would have multiple
18	versions of the same CV?
19	A. Yes. Well, for as long as I can remember,
20	obviously the past few years since these all have the
21	same format, I've been tweaking the existing CV as
22	opposed to doing the wholesale change. e.Digital Corporation Exhibit 2013 - Page 49

Page 91 1 And how did you equate presence to context Q. 2 awareness? 3 It was -- well, I equated them by equating Α. 4 them. The general broad aspect of defining a context, I 5 believe, again this was what, 18 years ago, they liked 6 the word presence, I think, because it was catchy. 7 Though, it may well have had more industry use at that 8 time, I just wasn't aware of it. 9 So about 18 years ago you equated in your mind Q. 10 the term presence with context awareness? 11 Α. Yeah. 12 And you have no authority, no scholarly Q. 13 writing, no technical journal that made that correlation 14 It's a correlation you came up with? for you. 15 MR. MESSINGER: Objection, form. 16 It was first introduced to me by a vendor. Α. 17 (By Mr. Handal) What was the state of context Ο. 18 awareness technologies 18 years ago? 19 Very -- it's not embryonic. Very, very early Α. 20 in the maturity cycle. Again, you know, as you got into 21 discussion about context or presence, location was kind 22 of the coroner stone or critical element of providing any e.Digital Corporation Exhibit 2013 - Page 50

Page 92 1 sort of context or presence based services. And location 2 was at that time, again because of the FCC mandate and 3 E911, etc., was the myopic focus of most people in terms 4 of getting that. And anything else was kind of, well, 5 let's get the location part first and then worry about 6 other things. So I'm not sure that answered your 7 question. 8 I'm not sure it did either. Q. 9 MR. HANDAL: May I have the question? 10 (The requested portion of the record was 11 read by the court reporter.) 12 I would say it was focused on location as being Α. 13 the key thing to get first before the ability to 14 implement other more fully context aware applications was 15 possible. 16 But it is true, is it not, that 18 years ago Q. 17 there were no context aware applications --18 Objection, scope. MR. MESSINGER: 19 (By Mr. Handal) -- that existed? Q. 20 Α. I did not do a search at that time. I was not 21 aware of any. 22 Q. You said 18 years ago, right? That's when you e.Digital Corporation Exhibit 2013 - Page 51

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	Page 93
1	first became aware of presence?
2	A. The Nextel engagement which started '97, '98,
3	so that would be 18 years ago.
4	Q. Right. So at that time you equated in your
5	mind presence with context awareness?
6	A. Yeah.
7	Q. Except at that time, 18 years ago, there were
8	no context awareness applications that you were aware of?
9	MR. MESSINGER: Objection, form.
10	A. Yes, yes.
11	Q. (By Mr. Handal) Okay. And the only what I
12	get from your testimony is that when you use these terms,
13	you're talking about location, either E911 or location
14	based services, you're talking about the location, right?
15	That's the first block I think you said of
16	A. Yeah, in my opinion location is a critical
17	element of determining context for many, if not most
18	possible applications.
19	Q. Okay. Is it a mandatory element?
20	MR. MESSINGER: Objection, scope.
21	A. No, it's not a mandatory element.
22	Q. (By Mr. Handal) In fact, it may have absolutely e.Digital Corporation Exhibit 2013 - Page 52

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1	nothing to do with context?
2	A. Correct.
3	Q. But you made that correlation 18 years ago and
4	coined the phrase strike that, you didn't coin a
5	phrase equated in your mind presence with context
6	awareness 18 years ago?
7	A. Yeah.
8	Q. And you didn't have any college courses in
9	context awareness; did you?
10	A. No.
11	Q. You didn't have any college courses in location
12	based services either; did you?
13	MR. MESSINGER: Objection, form.
14	A. College courses, no.
15	Q. (By Mr. Handal) Did you have any formal
16	education meaning at a school or technical school, trade
17	school, a university, postdoctorate, anything, formal
18	education in location based services?
19	A. Yes, and when I joined Hughes Aircraft Company
20	part of their coming on board process was education about
21	radar and how our radar works.
22	Q. Okay. Anything else? e.Digital Corporation Exhibit 2013 - Page 53

	Page 120
1	A. There's a lot of commonalities.
2	Q. Like at the top there's some maybe priority
3	information which rolled the numbering down, but I'll
4	represent that the spec is all the same.
5	MR. HANDAL: You agree?
6	MR. MESSINGER: Yeah, we agree that it's a
7	common spec.
8	Q. (By Mr. Handal) So when I speak in terms of one
9	of the patents, although the references to the spec might
10	be a little bit off from other patents, the language
11	I'll just offer that the language is all the same, okay?
12	A. Okay.
13	Q. And that's helpful. Now, what is the scope of
14	and I'm going to focus on the 523 patent. Do you know
15	the scope? You want me to show it to you?
16	A. Yes.
17	Q. You don't know? Why would you, right? Okay,
18	for the record it's marked it's previously been marked
19	as Google 1001 and this is appended to the IPR of the 523
20	patent.
21	MR. MESSINGER: Thank you.
22	Q. (By Mr. Handal) What's the scope of the 523
	e.Digital Corporation Exhibit 2013 - Page 54

Page 121 1 patent? 2 MR. MESSINGER: Objection, form. 3 As a colloquial summary, I would say it's the Α. 4 concept of utilizing social signatures developed by using 5 sensor data, particularly light and acoustic sensor data, 6 to match to what's called social templates in order to 7 provide differing levels of information according to its 8 social hierarchy. 9 (By Mr. Handal) Okay. Now, have you developed Q. 10 an opinion as to what a person of ordinary skill in the 11 art concerning the 523 patent is? 12 Α. Yes. 13 Q. And what is your opinion? What is a person of 14 ordinary skill in the art in your opinion? 15 Α. In my declaration I believe I wrote 16 specifically the parameters associated with that. 17 Do you recall without looking at your Ο. 18 declaration? 19 I believe so, but I would like to look at it Α. 20 anyway to be precise. 21 Q. That's okay. Tell me what you know. 22 Α. In terms of deciding -e.Digital Corporation Exhibit 2013 - Page 55

	Page 126
1	Page 6. In the petition now, you didn't write the
2	petition, right? Correct?
3	A. No.
4	Q. It was written by the lawyers, to the best of
5	your knowledge, right?
6	A. Well, I wasn't involved in it. I don't know
7	who wrote it.
8	Q. There's an articulation there under sub
9	paragraph B level of ordinary skill in the art. Do you
10	see that?
11	A. Uh-huh.
12	Q. Okay. Take a minute and read it.
13	A. I remember it now.
14	Q. You remember it?
15	A. Uh-huh.
16	Q. Is this a correct statement of what at least
17	in the context of the 523 patent?
18	MR. MESSINGER: Objection, scope.
19	Q. (By Mr. Handal) would a person of ordinary
20	skill in the art be?
21	A. I believe so.
22	Q. So a BC degree, you with a BS degree in
	e.Digital Corporation Exhibit 2013 - Page 56

	Page 127
1	electrical engineering?
2	A. Yes.
3	Q. You don't have a degree in computer
4	engineering?
5	A. No.
6	Q. Or computer science?
7	A. No.
8	Q. Do you have a degree in any other equivalent
9	field?
10	A. I have an MBA, information systems management,
11	but not equivalent, no.
12	Q. In two to five years of academic or industry
13	experience you didn't have any academic experience?
14	A. No, other than obviously the degree.
15	Q. Okay. And it would have been two to five years
16	of then in your case industry experience?
17	A. Correct.
18	Q. And all of this is within the context of the
19	time of the filing of the patent?
20	A. Uh-huh.
21	Q. So we're talking 2010 time frame?
22	A. Right. e.Digital Corporation Exhibit 2013 - Page 57

	Page 128
1	Q. So you would have had to have two to five years
2	of academic strike that.
3	You have an electrical engineering degree and
4	you would have had to have two to five years of industry
5	experience in mobile communication and context awareness
6	in order to qualify you as a person of ordinary skill in
7	the art?
8	A. Correct.
9	MR. MESSINGER: Objection, scope.
10	Q. (By Mr. Handal) Now, with respect to mobile
11	communication, the aspect here of mobile communication,
12	what do you understand that discipline to be?
13	A. Well, it can cover a lot of ground.
14	Q. Right.
15	A. Huge amount of ground, but generally it's for
16	involved technology aspects or any aspects, but
17	technology aspects involving the use of mobile devices to
18	communicate with other people, utilize various services,
19	you know, essentially wireless versus wireline at its
20	most simplicity.
21	Q. You would agree with me, would you not, that
22	just having two to five years of industry experience in e.Digital Corporation Exhibit 2013 - Page 58

	Page 129
1	just mobile communication would not necessarily qualify
2	somebody as a person of ordinary skill?
3	MR. MESSINGER: Objection, scope.
4	A. No, because that is what I wrote is a person of
5	ordinary skill of the art, so I wouldn't agree with that.
6	Q. (By Mr. Handal) But you add there, there's a
7	qualifier in the POSA, P-O-S-A, in the POSA definition as
8	somebody having two to five years of industry experience
9	in mobile communication and context awareness?
10	MR. MESSINGER: Objection, form,
11	misleading.
12	Q. (By Mr. Handal) So going back now, would you
13	agree with me that somebody who only has two to five
14	years of industry experience in mobile communication may
15	not qualify as a person of ordinary skill in the art
16	concerning the patents?
17	MR. MESSINGER: Objection, form.
18	A. You mean without the context awareness?
19	Q. (By Mr. Handal) Yes.
20	A. It's very possible since mobile communications
21	covers a lot of ground, there could easily someone
22	could specialize in it and not be exposed to context
	e.Digital Corporation Exhibit 2013 - Page 59

	Page 130
1	awareness.
2	Q. So you could see where individuals who have
3	mobile communication industry experience of two to five
4	years in 2010 may still not have the requisite skill in
5	the art concerning the 523 patent in 2010?
6	MR. MESSINGER: Objection, scope.
7	A. It's possible.
8	Q. (By Mr. Handal) So to be sure, the person of
9	ordinary skill would have to industry experience in
10	mobile communication and context awareness?
11	A. Yes.
12	MR. MESSINGER: Objection, form, scope.
13	Q. (By Mr. Handal) You agree?
14	A. Yes.
15	MR. HANDAL: Now it was a form of the
16	question.
17	Q. (By Mr. Handal) Now you read the 523 patent?
18	A. Yes.
19	Q. It's Google 1001, I gave it to you earlier.
20	What was the problem that the patentee was trying to
21	solve?
22	A. Well, I believe it gave a variety of
	e.Digital Corporation Exhibit 2013 - Page 60

	Page 138
1	going through aspects is to highlight or bold or
2	underline, or whatever, get to the heart of whatever it
3	is we're talking about.
4	Q. (By Mr. Handal) Okay.
5	A. That explanation kind of applies to all the
6	claim elements. Obviously not all claim elements are
7	equal, so some seem very straightforward or maybe not
8	that important to the overall discussion. Others that
9	seem much more important or critical, you know, I either
10	authored or edited dramatically just depending on what my
11	opinion was.
12	Q. Let me ask you this. What do you understand is
13	103 obviousness?
14	A. Where two or more patents can be combined to
15	teach the same elements as whatever it is you're trying
16	to compare it to.
17	Q. Okay. Let's go to paragraph ten of your
18	declaration.
19	A. Yes.
20	Q. Page 12, paragraph ten, you write that you
21	provide services across the entire wireless value chain
22	particularly with respect to technology and business
	e.Digital Corporation Exhibit 2013 - Page 61

	Page 139
1	strategic planning and product design and development
2	associated with location based services, LBS. I'm
3	focusing on the phrase product design. What products did
4	you design?
5	A. Well, I mean starting from my Hughes aircraft
6	days in terms of the A to D, analog to digital
7	Q. Let me ask you, within the last since 2005,
8	what products did you design?
9	A. My work for AT&T involved several products
10	ranging from the AT&T family map to loop social
11	networking to a variety of other applications, and while
12	all of those, the core applications were provided by
13	third parties, I provided and led the implementation of a
14	lot of the surrounding design elements associated with
15	that. For example, I've got listed in here a patent that
16	I'm a co-inventor on called method and apparatus for
17	mobile social network and privacy. That was a design
18	that I was a co-inventor on around the implementation of
19	the loop mobile social networking product. So while the
20	core application was provided by a third party, I was
21	integral to the design of everything associated with how
22	AT&T wanted to implement their privacy policies, so
	e.Digital Corporation Exhibit 2013 - Page 62

	Page 151
1	disclose the social hierarchy; is that correct?
2	MR. MESSINGER: Objection.
3	A. All the social signature does is disclose a set
4	of sensor readings, sensor information.
5	Q. (By Mr. Handal) That's it?
6	A. That's it.
7	MR. HANDAL: Okay. Let's take a break.
8	(A short break was taken.)
9	MR. MESSINGER: I'm just going to turn my
10	cell phone on just in case, for whatever reason.
11	MR. HANDAL: Yeah.
12	Q. (By Mr. Handal) Okay. Have you read Miluzzo?
13	A. Yeah.
14	Q. When was the last time you read Miluzzo?
15	A. Yesterday.
16	Q. What about Robarts?
17	A. Yesterday.
18	Q. Yesterday? When did you first read the 523
19	patent?
20	A. Whenever it was originally sent to me. I don't
21	remember when that is, frankly.
22	Q. Was it one of the first pieces of information
	e.Digital Corporation Exhibit 2013 - Page 63

	Page 152
1	that was sent to you?
2	A. The patents themselves, yes, as part of the
3	search process besides wanting to know if you feel you
4	can provide expert services relevant to the patent sales.
5	They want to make sure you don't have any conflict. So
6	the patents were pretty much the first thing I looked at.
7	Q. So you got a packet and it contained the
8	patents and you read the packets. This is early on in
9	your engagement?
10	A. Yes.
11	Q. And then at some point you must have gotten or
12	received some more information?
13	A. Yes.
14	Q. And can you describe what that information was
15	that you received in the next round?
16	MR. MESSINGER: Objection, form.
17	A. Let's see. The supplemental exhibits, though
18	they kind of came straggling in at various places.
19	Q. (By Mr. Handal) You mean the Google 102, all
20	the exhibits?
21	A. Yeah, the supplemental.
22	MR. MESSINGER: Objection, form.
	e.Digital Corporation Exhibit 2013 - Page 64

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	Page 163
1	your blood pressure or your wind speed or the date and
2	time, none of the derived attributes would be any
3	different than the original inputs.
4	Q. Have you heard the term sensor value range?
5	A. Yes.
6	Q. Where?
7	A. Throughout the various patents. In particular
8	Robarts uses the word range of values.
9	Q. But the specific phrase sensor value range is
10	used in the 523 patent?
11	MR. MESSINGER: Objection, form.
12	A. I would have to read it again to see if those
13	specific three words together are used like that. But
14	concept certainly is in there.
15	MR. MESSINGER: I think we need to prepare
16	or at least get ready for that call.
17	MR. HANDAL: Let's take a break.
18	(A short break was taken.)
19	Q. (By Mr. Handal) Looking at Miluzzo, can you
20	explain the architecture I'm sorry, Robarts. Can you
21	explain the architecture of Robarts?
22	A. In general, the architecture in my view is e.Digital Corporation
	Exhibit 2013 - Page 65

	Page 164				
1	centered around the selection of a theme, so it utilizes				
2	essentially input a variety of processing capabilities in				
3	the form of context servers, characterization systems,				
4	context modules, and then provides a variety of outputs.				
5	And so as we had talked about before, we had inputs going				
6	through the context module, outputting as needed, a set				
7	of derived or derived attribute according to the logic				
8	associated with a context server.				
9	Q. Let me direct you to figure 4 in Robarts.				
10	A. Okay.				
11	Q. Would you conclude that figure 4 sets forth the				
12	basic architecture of the invention?				
13	A. It would set forth the core process.				
14	Architecture is a word I more closely associate with				
15	technology elements as opposed to a process flow which is				
16	what figure 4 is.				
17	Q. Essentially you'll agree with me that Robarts				
18	architecture starts with the selection of a theme?				
19	A. In this process diagram, yes.				
20	Q. That's basically the an essential element of				
21	the architecture of Robarts; is it not?				
22	MR. MESSINGER: Objection, form.				
	e.Digital Corporation Exhibit 2013 - Page 66				

	Page 165			
1	A. The selection of the theme is based on the			
2	sensor data. So theme is not selected before sensor data			
3	is received.			
4	Q. (By Mr. Handal) But looking at show me a			
5	figure where that that your statement there is			
6	illustrated?			
7	A. Well, it discusses themes set, so it's the			
8	possible themes by which you could then compare the			
9	actual sensor data against. So while the processing may			
10	be a little different than say the 523 patent which			
11	starts with the data set, the end result in my opinion is			
12	the same thing.			
13	Q. Okay. But with respect to Robarts, however,			
14	the essential an essential element of the architecture			
15	of Robarts is some selection of a theme or theme set?			
16	MR. MESSINGER: Objection, form.			
17	A. Yes, based on sensor data.			
18	Q. (By Mr. Handal) How is looking at figure 4,			
19	I don't see how sensor data is in any way used in			
20	connection with selecting a theme set. I'm looking at			
21	Box 402.			
22	A. In my opinion, it's just a question of order			
	e.Digital Corporation Exhibit 2013 - Page 67			

	Page 166			
1	with the same process. So instead of say in the 523			
2	patent where you get your data first and then you compare			
3	it to a variety of potential templates, in figure 4 you			
4	start with a laundry list of templates, get your data,			
5	and then in the third process flow you actually process			
6	those signals in order to find the appropriate one. So			
7	it's just a matter of design approach, for lack of a			
8	better phrase.			
9	Q. Design? You think it's just design selection			
10	to have the themes come up first?			
11	A. Yes.			
12	Q. Your description of 523, the 523, and Robarts			
13	essentially differ in that you have sensor data come in			
14	and then use to select a template. That's what you said,			
15	right?			
16	A. Yeah.			
17	Q. In Robarts a theme set is selected first and			
18	then your testimony was that there's an interplay			
19	involving sensor data?			
20	A. Right.			
21	MR. MESSINGER: Objection, form.			
22	Q. (By Mr. Handal) But actually it's an interplay			
	e.Digital Corporation Exhibit 2013 - Page 68			

Page 170 1 That's a form of a sensor. Driving direction sensors a 2 compass. 3 You're mixing stuff up here because the Ο. 4 attribute is what goes into the theme, not whether the 5 ignition switch is on or off or the direction. The 6 attribute is a process -- the attribute is a product of a 7 process that occurs within the context server, right? 8 The way the architecture is has a context Α. 9 server between the input and the attribute output, but as 10 we discussed before, it may well be that nothing happens 11 If you've got a driving direction in the context server. 12 compass that says west, what more modification or 13 analysis do you need? None. 14 That takes me to the next question. What does Ο. 15 Robarts describe happens in the context server? 16 Objection, form. MR. MESSINGER: 17 Ο. (By Mr. Handal) What does it teach occurs in 18 the context server? 19 Α. It's the combining of the attributes in terms 20 of the theme. So it's not just one sensor value to 21 determine context like I'm driving west. It is the 22 combination of various attributes such in this case, yes, e.Digital Corporation Exhibit 2013 - Page 69

	Page 171
1	you're driving and you're driving west and coming to the
2	conclusion that you meet the theme which is driving to
3	work. So that's what the context server does is take
4	those attributes and process and try and identify what
5	theme is appropriate.
6	Q. But how? I mean how? Is there an application
7	for it? Is it some kind of logic? Some kind of
8	programming? Some kind of firmware? Is it voodoo? How?
9	It doesn't describe it anywhere; does it?
10	MR. MESSINGER: Objection, form.
11	A. It gives in terms of programming language,
12	no, it doesn't provide the programming language. So at
13	some point you have to go back up from that in terms of
14	what level of detail is enough to describe intellectual
15	property versus being a blueprint for actually
16	implementing something. So it describes a context
17	server. It provides a whole variety of different
18	diagrams in terms of how the context server interphases
19	with other pieces, various data structures in particular
20	and the outputs. So that's a lot of how there, even if
21	it doesn't get to the point of programming language or,
22	you know, detailed specifications. Exhibit 2013 - Page 70

	Page 172
1	Q. So it's a lot of suggestion, but it doesn't
2	tell you how the information that comes into the context
3	server is processed in a way that you have a derived
4	attribute? Isn't that true?
5	MR. MESSINGER: Objection, form.
6	A. It provides a lot of the information you would
7	need to get to the how of a level of programming. So
8	Q. (By Mr. Handal) Stop. It gives you enough
9	information to give you the how to get to a level of
10	programming. That's your testimony, right?
11	A. It does not provide any actual programming.
12	MR. MESSINGER: Objection.
13	Q. (By Mr. Handal) Okay. And there are no figures
14	anywhere in Robarts that describe the process, the
15	algorithms, the process that goes on in the context
16	server, right?
17	A. I would have to relook at the information to
18	see, there are a lot of process diagrams in here, to
19	refresh myself on what components of any of those process
20	diagrams are actually done by the context server or not.
21	So I can't answer that question.
22	Q. Okay. Well, why would you state in your
	e.Digital Corporation Exhibit 2013 - Page 71

	Page 180
1	different footing? Miluzzo starts with sensor data;
2	Robarts starts with themes.
3	MR. MESSINGER: Objection, form.
4	Q. (By Mr. Handal) I mean to go through the
5	process of each
6	A. Not being a legal viewpoint, but it's if all
7	the process flows and architecture diagrams and
8	everything associated to that were the same, then they
9	would be redundant patents. So it's to be expected that
10	they're going to take different processes or different
11	approaches to what is, for the most part, fundamentally
12	similar issues.
13	Q. But if you're going to combine art, they need
14	to work together, right?
15	MR. MESSINGER: Objection, form.
16	A. Yeah.
17	Q. (By Mr. Handal) Yeah, they do. So if you have
18	starting point A, which is starting with sensor data, as
19	the beginning of the process flow to come to a
20	conclusion, then how do you integrate a process that
21	starts with essentially a conclusion and goes through a
22	verification process to verify the conclusion with sensor e.Digital Corporation Exhibit 2013 - Page 72

Page 181 1 I mean they're backwards with one another; aren't data? 2 they? 3 MR. MESSINGER: Objection, form. 4 Α. Well, as I discussed before, I don't 5 necessarily think that they're backwards. But 6 regardless, you know, as you get more detail closer to 7 implementation, it starts to move from a question of 8 intent to more of a question of design choices based on 9 whatever happens, whatever happens to be your particular 10 situation. 11 Ο. (By Mr. Handal) Let's talk about design choice. 12 If the original design of Miluzzo -- not if. The 13 original design of Miluzzo is to start with sensor data 14 and then go through a process to identify, what you said 15 in your declaration, the context or presence of the user. 16 I got it correct? 17 Α. Yeah. 18 You take Robarts and it starts with the theme Ο. 19 or the context or presence of the user and then goes 20 backwards to verify the correctness through attributes 21 and sensor data, then essentially they're working 22 backwards from one another? e.Digital Corporation Exhibit 2013 - Page 73

	Page 189
1	A. Well, light and sound examples are, for
2	example, described in Miluzzo which is before the benefit
3	date, and in terms of a broader context discussion in
4	aspects around, for example, local search in trying to
5	determine accurately what the context was associated with
6	that, you know, there was multiple discussions in the
7	local search world which I happen to be aware of in terms
8	of how can we improve that. Can we improve it by, for
9	example, night versus day which would imply light or what
10	other attributes could possibly be used above and beyond
11	in addition to location.
12	Q. Why didn't you put that in your declaration
13	because you just make the statement without the support?
14	MR. MESSINGER: Objection, form.
15	A. Hard to say. Didn't occur to me.
16	Q. (By Mr. Handal) Page 84, paragraph 129, in the
17	middle you write, presence as used in Miluzzo is the same
18	concept as context or contextual awareness used by
19	others. Where does it say that?
20	A. That is my opinion. I cannot recall whether
21	Miluzzo specifically says something to the effect of
22	presence equals contextual awareness. I would have to
	e.Digital Corporation Exhibit 2013 - Page 74

	Page 190
1	look back at Miluzzo.
2	Q. Not that I've been able to find. So that's
3	your opinion?
4	A. Yes. Certainly the various descriptions and
5	elaborations are examples around presence in terms of
6	settings or situations or what have you, I believe, are
7	very consistent between the terms.
8	Q. Okay. So going down that paragraph, you say
9	that Miluzzo uses microphones and cameras and smart
10	phones to detect a noise index and brightness index to
11	infer a present status of a user. Is that what it does?
12	A. In that example, yes.
13	Q. And then you go on, the user's present status
14	allows the system to infer information about the person's
15	surroundings?
16	A. Yes.
17	Q. And then you add to detect the current context
18	to detect the current contest the user is
19	experiencing, that's your add on, right?
20	A. Yes.
21	Q. Page 85, paragraph 131, you write at the end,
22	thus POSA would have been motivated to seek out a e.Digital Corporation Exhibit 2013 - Page 75

	Page 192
1	Q. That's not a quote. That's your distillation
2	from paragraph 157?
3	A. Yes.
4	Q. Then you write, if the attributes are not
5	unique, comparison of attributes could result in more
6	than one selected themes?
7	A. Correct.
8	Q. Why is that a problem?
9	A. Well, if you had two themes that had, you know,
10	both had a noise level, for example, between 10 minus 60
11	decibels and a light level between 1 and 3 but they both
12	had essentially at the end of the day a different level
13	associated with a different social hierarchy, then come
14	programming time you get to, okay, let's go and do a
15	comparison and you get two different possibilities and
16	the software would blow up in addition to not providing
17	any insight to the user.
18	Q. So it wouldn't work?
19	A. Yeah.
20	Q. All right. Now, attributes are expressed in
21	Robarts as the current context, true?
22	MR. MESSINGER: Objection, form.
	e.Digital Corporation Exhibit 2013 - Page 76

Page 199 1 one theme? 2 Robarts describes that as one embodiment. Α. Ι 3 don't think that that embodiment was either anticipated 4 or included in Miluzzo. 5 But that wasn't my question. Q. You do 6 acknowledge that under Robarts a set of attributes can result in the selection of more than one theme, true? 7 8 Robarts does describe one embodiment along Α. 9 those lines. 10 Ο. So it describes that. So I was correct? 11 MR. MESSINGER: Objection, form. 12 (By Mr. Handal) So let's go to paragraph 142. Q. 13 Now we're talking about what a POSA, you, would have 14 understood. You write, a POSA would have understood that 15 Robarts' attributes in each theme have to be unique 16 because Robarts' system uses comparison of attributes to 17 select one single appropriate theme. You go on, if the 18 attributes are not unique comparison of the attributes 19 could result in more than one selected theme. 20 Α. Correct. 21 So now, would it also be true that a POSA would Q. 22 also understand that in some embodiments in Robarts a set e.Digital Corporation Exhibit 2013 - Page 77

	Page 200			
1	of attributes could result in the selection of multiple			
2	themes?			
3	MR. MESSINGER: Objection, form.			
4	A. It is possible. I would strongly suspect, I'm			
5	not sure if this wording is in there anywhere, that			
6	Miluzzo assumed a mutually what I would call a			
7	mutually exclusive model in terms of outcome, you're			
8	either doing one thing or another and it's impossible to			
9	do both and therefore you would want that reflected			
10	accordingly, or in Robarts they went more extensive,			
11	which is not surprising given their the focus of their			
12	overall patent is improving contextual modeling			
13	techniques.			
14	Q. (By Mr. Handal) Okay. But wait a second. Now			
15	we've essentially arrived at a point where a POSA would			
16	have to now understand that under Robarts multiple themes			
17	can be selected from the same set of attributes, true?			
18	MR. MESSINGER: Objection, form.			
19	Q. (By Mr. Handal) I mean yes or no?			
20	A. Again, it would depend on the mindset of the			
21	POSA.			
22	Q. Yeah, I guess. Exhibit 2013 - Page 78			

	Page 201			
1	A. Whether you're in a mutually exclusive frame of			
2	mind or you're really trying to build a complete			
3	contextual that I'm at work, in a meeting, talking, etc.			
4	Q. Hold on a minute.			
5	A. So I can't answer absolutely yes or no, which			
6	is where I think you're trying to get me.			
7	Q. But a reasonable person skilled in the art			
8	reading Robarts would know that Robarts in at least one			
9	embodiment recognizes that a set of attributes could			
10	result in the selection of multiple themes?			
11	A. They would read that, yes.			
12	Q. Okay. So it's important then when you're			
13	combining Robarts with Miluzzo to make sure, because			
14	Miluzzo is about identifying the user status that's			
15	what Miluzzo is about?			
16	A. Yes.			
17	MR. MESSINGER: Objection, form.			
18	Q. (By Mr. Handal) So when you write in paragraph			
19	44 it would have been obvious for a POSA to modify			
20	Miluzzo's inference engine to incorporate Robarts' themes			
21	and user context recognition because both Miluzzo's			
22	inference engine and Robarts's themes e.Digital Corporation Exhibit 2013 - Page 79			

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