UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD
ACTIVISION BLIZZARD, INC. ELECTRONIC ARTS, INC. TAKE-TWO INTERACTIVE SOFTWARE, INC. 2K SPORTS, INC. ROCKSTAR GAMES, INC. and BUNGIE, INC. Petitioners
v.
ACCELERATION BAY, LLC Patent Owner
Case IPR2016-00747
U.S. Patent No. 6,732,147
VIDEOTAPED DEPOSITION OF DAVID R. KARGER, Ph.D. Tuesday, November 29, 2016, 9:16 a.m.
Ropes & Gray LLP
800 Boylston Street
Boston, Massachusetts 02199
Reported By:
Janet M. Sambataro, RMR, CRR, CLR
Job No. 189271
U.S. LEGAL SUPPORT (415) 362-4346

1				
	APPEARANCES:	Page 2	1	Page - PROCEEDINGS
2			2	THE VIDEOGRAPHER: This is the
3	WINSTON & STRAWN LLP		3	videotaped deposition of Dr. David Karger taken
4	(By Michael M. Murray, Esquire)		4	by the defendant in the matter of Activision
5	200 Park Avenue		5	-
6	New York, New York 10166		6	Blizzard, et al., versus Acceleration Bay, LLC, in the United States and Trademark Office [sic]
7	212.294.6700			
8	mmurray@winston.com		7	before the Patent Trial and Appeal Board. This
9	Counsel for the Petitioner		8	is Case No. IPR2016-00747, U.S. Patent
10			9	No. 6,732,147.
11	KRAMER LEVIN NAFTALIS & FRANKEL LLP		10	This deposition is being held at
12	(By Jeffrey H. Price, Esquire)		11	Ropes & Gray, LLP, on today, November 29, 2016.
12	1177 Avenue of the Americas		12	My name is Mati Kiin. I'm representing U.S.
13	New York, New York 10036		13	Legal Support, and I am the video specialist.
			14	Our court reporter today is Janet Sambataro, also
15	212.715.9100		15	from U.S. Legal Support. We're going on the
16	jprice@kramerlevin.com		16	record at 9:16 a.m.
17	Counsel for the Patent Owner		17	I will now ask counsel to please state
18			18	their appearances for the record.
19	KRAMER LEVIN NAFTALIS & FRANKEL LLP		19	MR. PRICE: Good morning. My name is
20	(By Michael Lee, Esquire)		20	Jeffrey Price. I am here representing the paten
21	990 Marsh Road		21	owner, Acceleration Bay, LLC.
22	Menlo Park, California 94025		22	MR. MURRAY: This is Michael Murray
23	650.752.1700		23	with Winston & Strawn, representing petitioner.
24	mlee@kramerlevin.com		24	MR. LEE: Michael Lee from Kramer
25	ALSO PRESENT: Mati Kiin, Videographer		25	Levin, representing the patent owner.
			<u> </u>	
1	INDEX	Page 3	1	Page THE VIDEOGRAPHER: Thank you. I'll now
			±	THE VIDEOGRAPHER. INdik you. I'II NOV
2	WITNESS DIRECT CROSS REDIRECT		2	age the gount reporter to group in the without
2			2	ask the court reporter to swear in the witness,
	DAVID R. KARGER, Ph.D.		3	and we can proceed.
3 4	DAVID R. KARGER, Ph.D.		3 4	and we can proceed. DAVID R. KARGER, Ph.D.,
3 4 5	DAVID R. KARGER, Ph.D. By Mr. Price 5		3 4 5	and we can proceed. DAVID R. KARGER, Ph.D., having been duly affirmed, after presenting
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3 4 5 6 7 8	DAVID R. KARGER, Ph.D. By Mr. Price 5 E X H I B I T S Number Description Page Exhibit 1 Declaration of David R. Karger		3 4 5 6 7 8	and we can proceed. DAVID R. KARGER, Ph.D., having been duly affirmed, after presenting identification in the form of a driver's license deposes and says as follows: DIRECT EXAMINATION
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3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DAVID R. KARGER, Ph.D. BY MY. Prior 5 FINIBUT FINIT S RUMDER FILT FINIT Perform P		3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<pre>and we can proceed.</pre>
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DAVID R. KARGER, Ph.D. By Mr. Price 5 E X H I B I T S Number Description Pege Schibit 1 Declaration of David R. Karger in Support of the Petition for in Support of the Petition for Support in Support of the Petition for S		3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>and we can proceed. DAVID R. KARGER, Ph.D., having been duly affirmed, after presenting identification in the form of a driver's license deposes and says as follows: DIRECT EXAMINATION BY MR. PRICE: Q. Good morning, Dr. Karger. A. Good morning. Q. Can you please state your full name and address for the record. A. My name is David Karger. I'm at 21 Craigie Street, Cambridge, Massachusetts 02138. Q. Do you understand why you're here today? A. Yes, I am. Q. And why is that? A. I'm providing expert testimony in regard to the case that was just read off by the court videographer.</pre>

1	Page 6 have submitted.	1	Page A. I work at the Massachusetts Institute
2	MR. PRICE: Okay. I'm going to hand	2	of Technology in the computer science and
3	you an exhibit that will be marked Exhibit 1.	3	artificial intelligence laboratory in the
4	(Declaration of David R. Karger	4	electrical engineering and computer science
5	in Support of the Petition for an Inter	5	department.
6	Partes Review of United States Patent Nos.	6	Q. And do you teach any courses at MIT?
7	6,732,147 and 6,910,069 marked Exhibit T.)	7	A. I do.
, 8	MR. MURRAY: I don't need it. Thank	8	Q. What courses do you teach?
9		9	A. I've taught quite a few. I teach the
.0	you. BY MR. PRICE:	10	graduate courses on algorithms and randomized
.0	Q. Do you recognize this document,	11	algorithms.
.2	Dr. Karger?	12	I have taught undergraduate introductory
.2	A. Yes. This is the declaration which I	13	programming, undergraduate software engineering,
.3	submitted.	14	
			undergraduate computer systems, a course on oper
.5	Q. Is that your signature on Page 141?	15	source software engineering, probably I'm
.6	A. I sure hope so. Yes, it is.	16	probably omitting one or two, but that's what I
7	Q. And did you sign this declaration on	17	can recall at present.
.8	March 11, 2016?	18	Q. So you're familiar with computer
.9	A. I would have to I would just have to	19	networks?
20	check my records to verify the date, but I	20	A. Yes, I am.
1	believe that's correct.	21	Q. And can you tell me what a computer
2	Q. It says right above your signature	22	network is?
3	A. Oh, yeah, sorry. Yes. That is	23	A. A computer network is a network of
24	correct.	24	computers.
25	Q. Was it your understanding that as of	25	Q. Can you elaborate on what you mean by
1	Page 7 March 11th, you were supposed to put into your	1	"a network of computers"?
2	report all of your opinions that you have in this	2	A. Well, I think we can agree on what a
3	case?	3	computer is. And a network is a an
4	A. That I was supposed to put in all of my	4	interconnection of some of those computers in
5	opinions. I put into this I put into this	5	some form.
6	document all of the opinions that I considered	6	Q. Are you familiar with the OSI model of
7	necessary in order to make the points that I	7	computer networks?
8	was that I was making.	8	A. Yes, I am.
9	Q. Does this document contain all of your	9	Q. Can you please explain to me your
	opinions for Case No. IPR2016-00747?	10	understanding of the OSI model.
0	-	10	
1 2	A. It contains the opinions that I've		
	formed so far. I've reserved the right to revise	12	of computer networking an abstraction of
3	those opinions based on additional information as	13	computer networking protocols that separates out
4	I receive it.	14	different aspects of computer communication and
5	Q. Are there any corrections to the	15	functionality into layers that can often be
6	declaration you'd like to make at this time?	16	considered separately.
7	A. Not that I found so far.	17	Q. Would a person of skill in the art hav
8	Q. Okay. Are you aware of anything	18	known about the OSI model in the year 2000?
9	concerning your bases for the opinions in this	19	A. Yes, they would.
0	case that were not included in Exhibit 1?	20	Q. Are you familiar with the Tanenbaum
	A. Not that I can recall at present.	21	textbook called Computer Networks?
1			A. Yes, I am.
1 2	Q. And can you think of anything today	22	
21 22 23	that you would need to cite additionally?	23	Q. Who would you consider to be the targe
21 22 23 24 25			

1			
L T	Page 10 identify a person of ordinary skill in the art in	1	Page 12 term can be construed in a manner inconsistent
2	computing with an interest in networking.	2	with the specification?
3	Q. So you would consider the Tanenbaum	3	A. No. I don't think that a claim term
4	textbook a reference that a person of ordinary	4	can be construed in a manner inconsistent with
5	skill in the art would have known and used about?	5	the specification.
6	A. Yes, I would.	6	Q. Is it your understanding that a claim
7	Q. In the year 2000?	7	term can be construed in a manner that does not
8	A. Yes.	8	reasonably reflect the plain language and
9	Q. Can you turn to Paragraph 83 of your	9	disclosure of the specification?
10	declaration, please.	10	A. Does not reasonably reflect the plain
11	(Witness complies.)	11	language. I guess that depends on what you mean
12	A. Yes.	12	by "reasonably" and "reflect" and "disclosure."
13	Q. Do you see where you state, "I have	13	As I already said, the I've been informed
14	been informed that for the purposes of this inter	14	that I'm supposed to give the broadest reasonable
15	partes review, the standard for claim	15	construction in light of the specification. And
16	construction of terms within the claims of the	16	so, for example, if the plain language of the
	patent is the broadest reasonable construction in		
17 18	light of the specification"?	17 18	specification doesn't say anything in particular about the term, then I'm is that broadest
19		19	
20	A. Page 83. Do you mean Paragraph 83? Q. Paragraph 83.	20	reasonable construction reflecting what's in the specification? I suppose that it is.
20	A. Yes.	20	Q. And if the specification does contain a
21	A. Ies. Q. What do you mean by "in light of the	21	description that would give a person of ordinary
22	specification?	23	skill in the art an understanding of what that
23	A. Well, if the specification explicitly	23	term means, is that description relevant to how
24	rules something out, then I should not include	24	you construe the claim term?
25	Tates something out, then I should not include	25	you constitue the craim term:
	Page 11		Page 13
1	that into the broadest reasonable construction.	1	A. Well, for example, the specification
2	Q. What do you mean by "explicitly rules	2	might use the term in some embodiment in a way
3	something out"?	3	that leads you to understand its meaning in that
4	A. Well, if, for example, the	4	embodiment, but its use in that embodiment does
5	specification says that computer network does not	5	not necessarily indicate how it should be used
6	mean network of computers, but means a a red	6	throughout the throughout the throughout
	car, then I would presumably need to give that		
7	car, then I would presumably need to give that	7	the patent.
7 8	weight in my reading of the specification.	8	the patent. Q. What is your understanding of the term
			-
8	weight in my reading of the specification.	8	Q. What is your understanding of the term
8 9	weight in my reading of the specification. Q. Is it your opinion that the phrase "in	8 9	Q. What is your understanding of the term "embodiment"?
8 9 10	<pre>weight in my reading of the specification. Q. Is it your opinion that the phrase "in light of the specification" only applies when the</pre>	8 9 10	Q. What is your understanding of the term "embodiment"? (Discussion off the record.)
8 9 10 11	<pre>weight in my reading of the specification. Q. Is it your opinion that the phrase "in light of the specification" only applies when the specification explicitly rules something out?</pre>	8 9 10 11	Q. What is your understanding of the term "embodiment"? (Discussion off the record.) Q. What is your understanding of the term
8 9 10 11 12	<pre>weight in my reading of the specification. Q. Is it your opinion that the phrase "in light of the specification" only applies when the specification explicitly rules something out? A. Well, it certainly does apply when the</pre>	8 9 10 11 12	Q. What is your understanding of the term "embodiment"? (Discussion off the record.) Q. What is your understanding of the term "embodiment" that you just used?
8 9 10 11 12 13	<pre>weight in my reading of the specification. Q. Is it your opinion that the phrase "in light of the specification" only applies when the specification explicitly rules something out? A. Well, it certainly does apply when the specification explicitly rules something out. I</pre>	8 9 10 11 12 13	Q. What is your understanding of the term "embodiment"? (Discussion off the record.) Q. What is your understanding of the term "embodiment" that you just used? A. My understanding of the term
8 9 10 11 12 13 14	weight in my reading of the specification.Q. Is it your opinion that the phrase "in light of the specification" only applies when the specification explicitly rules something out?A. Well, it certainly does apply when the specification explicitly rules something out. I could imagine there might be some ways to kind of	8 9 10 11 12 13 14	Q. What is your understanding of the term "embodiment"? (Discussion off the record.) Q. What is your understanding of the term "embodiment" that you just used? A. My understanding of the term "embodiment" is that it is sort of an example of
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8 9 10 11 12 13 14 15 16 17 18 19	<pre>weight in my reading of the specification. Q. Is it your opinion that the phrase "in light of the specification" only applies when the specification explicitly rules something out? A. Well, it certainly does apply when the specification explicitly rules something out. I could imagine there might be some ways to kind of give explicit statements that hedge around things in a way to rule them out by implication. I don't think I relied on any such reading in the interpretations that I was making in this case.</pre>	8 9 10 11 12 13 14 15 16 17 18 19	 Q. What is your understanding of the term "embodiment"? (Discussion off the record.) Q. What is your understanding of the term "embodiment" that you just used? A. My understanding of the term "embodiment" is that it is sort of an example of something which is supposed to be practicing the claims of the patent or some of the claims of the patent. Q. Can you please refer to Paragraph 89 of your declaration. A. Yes.
8 9 10 11 12 13 14 15 16 17 18 19 20	 weight in my reading of the specification. Q. Is it your opinion that the phrase "in light of the specification" only applies when the specification explicitly rules something out? A. Well, it certainly does apply when the specification explicitly rules something out. I could imagine there might be some ways to kind of give explicit statements that hedge around things in a way to rule them out by implication. I don't think I relied on any such reading in the interpretations that I was making in this case. Q. Is it your understanding that a claim term can be construed in a manner inconsistent 	8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. What is your understanding of the term "embodiment"? (Discussion off the record.) Q. What is your understanding of the term "embodiment" that you just used? A. My understanding of the term "embodiment" is that it is sort of an example of something which is supposed to be practicing the claims of the patent or some of the claims of the patent. Q. Can you please refer to Paragraph 89 of your declaration. A. Yes. Q. Can you please explain what you mean by
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>weight in my reading of the specification. Q. Is it your opinion that the phrase "in light of the specification" only applies when the specification explicitly rules something out? A. Well, it certainly does apply when the specification explicitly rules something out. I could imagine there might be some ways to kind of give explicit statements that hedge around things in a way to rule them out by implication. I don't think I relied on any such reading in the interpretations that I was making in this case. Q. Is it your understanding that a claim term can be construed in a manner inconsistent with the specification?</pre>	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. What is your understanding of the term "embodiment"? (Discussion off the record.) Q. What is your understanding of the term "embodiment" that you just used? A. My understanding of the term "embodiment" is that it is sort of an example of something which is supposed to be practicing the claims of the patent or some of the claims of the patent. Q. Can you please refer to Paragraph 89 of your declaration. A. Yes. Q. Can you please explain what you mean by "plain and ordinary meaning"?
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 weight in my reading of the specification. Q. Is it your opinion that the phrase "in light of the specification" only applies when the specification explicitly rules something out? A. Well, it certainly does apply when the specification explicitly rules something out. I could imagine there might be some ways to kind of give explicit statements that hedge around things in a way to rule them out by implication. I don't think I relied on any such reading in the interpretations that I was making in this case. Q. Is it your understanding that a claim term can be construed in a manner inconsistent with the specification? A. I'm sorry. Could you restate the 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. What is your understanding of the term "embodiment"? (Discussion off the record.) Q. What is your understanding of the term "embodiment" that you just used? A. My understanding of the term "embodiment" is that it is sort of an example of something which is supposed to be practicing the claims of the patent or some of the claims of the patent. Q. Can you please refer to Paragraph 89 of your declaration. A. Yes. Q. Can you please explain what you mean by "plain and ordinary meaning"
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1	Page 14 ordinary skill would understand them.	1	Page 16 Q. Did your process of determining the
2	Q. Can you please explain how you	2	plain and ordinary meaning for the rest of the
3	determine the plain and ordinary meaning for the	3	claim terms in Claim 6 involve reading the
4	claim terms in Claim 6 of the '147 patent?	4	specification of the '147 patent?
5	A. For the terms in Claim 6	5	A. Certainly.
6	Q. Yes.	6	Q. Is it your understanding that the '147
7	A you said? Could I have a copy of	7	patent used the term "broadcast channel"?
8	the patent?	8	A. Yes, it is.
9	MR. PRICE: The court reporter will	9	Q. Is it your understanding that the term
10	hand you a document labeled Exhibit 2.	10	"broadcast channel" is used in Claim 6 of the
11	(United States Patent No.	11	'147 patent?
12	6,732,147 marked Exhibit 2.)	12	A. Yes, it is.
13	BY MR. PRICE:	13	Q. Okay. In forming your opinion on the
14	Q. Do you recognize Exhibit 2?	14	validity of the '147 patent, did you come to an
15	A. Yes, I do.	15	understanding of what the term "broadcast
16	Q. This is U.S. Patent 6,732,147, which	16	channel" means?
17	was submitted as Exhibit 1001 in IPR2016-00747.	17	A. Well, again, a broadcast channel
18	Is that correct?	18	certainly has plain and ordinary meaning to
19	A. Yes.	19	people of skill in the art, and that was the
20	Q. Okay. And so can you please explain	20	understanding that I applied.
21	how you determine the plain and ordinary meaning	21	Q. And what is the plain and ordinary
22	of the terms that exist in Claim 6 of the '147	22	meaning of "broadcast channel"?
23	patent.	23	A. A broadcast channel is a channel for
24	A. Could you restate the question.	24	broadcasting information.
25	Q. Can you please explain how you	25	Q. Can you elaborate on that, please?
	Page 15		Page 17
1	determine the plain and ordinary meaning of the	1	MR. MURRAY: Object to the form.
2	terms in Claim 6 of the '147 patent?	2	A. Well, a broadcast is a transmission of
3	A. Sure. So I determined the plain and	3	information to all recipients, and a channel is
4	ordinary meanings by reflecting on my own	4	some type of medium that can carry that
5	knowledge, my educational background and my	5	broadcast.
6	experience in the field, my understanding of	6	Q. What do you mean by the term "medium"?
7	teaching curricula, which would have informed	7	A. Well, in this world, things don't
8	people who became people of ordinary skill in the	8	instantaneously teleport from one place to
9 10	art, and my experience in how people of ordinary skill tend to converse when they are talking	9 10	another place. They have to get from one place
			to another place somehow. They travel through something, and that is often referred to as a
11 12	about the materials in by talking about this topic.	11 12	"medium."
13	Q. Is it correct to say that you apply the	13	A medium could be the air. It could be the
14	plain and ordinary meaning for each claim term in	14	electromagnetic we don't have an ether, but
15	Claim 6 of the '147 patent, except for the term	15	the electromagnetic environment. It could be a
16	"m-regular"?	16	wire. It could be a collection of people who are
17	A. Well, as you can see in Paragraphs 84	17	passing information to one another.
18	through 88 of my declaration, I was asked to	18	It is whatever is carrying the information.
19	assume or I was asked to assume constructions for	19	Q. And is that the understanding a person
20	four terms, and for all of the terms not listed	20	of ordinary skill in the art reading the '147
21	among those four, I was asked to assume their	21	patent would have had in July of 2000?
22	plain and ordinary meaning.	22	A. Yes. I believe so.
23	I believe that "m-regular" is the only one	23	Q. Is the term "broadcast channel" a term
24	of the four terms appearing in this particular	24	of art in the field of computer networks?
25	claim. So, yes, that would be correct.	25	A. A term of art? I mean, it is a term
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	(415) 3		

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1 ±	Page 18 that I think anyone in our any person of	1	Page 20 Lines 5 through 7, of the '147 patent.
2	ordinary skill would understand it and would	2	A. Yes.
3	understand it to have a meaning similar to the	3	Q. Can you read the sentence that starts
4	one that I just outlined.	4	on Line 5, please?
5	Q. Is it your opinion that a broadcast	5	A. "A broadcast technique in which a
6	channel must support broadcast messages?	6	broadcast channel overlays a point-to-point
7	A. Must support broadcast messages. Must?	7	communications network is provided."
8	If you use the phrase "broadcast channel," you	8	Q. So what does this sentence mean to you?
9	are implying that the channel can be used for	9	A. Well, it elaborates on the sentence we
10	broadcasting.	10	were previously discussing by saying that the
11	Q. In coming to your understanding of the	11	underlying network is a point-to-point
12	plain and ordinary meaning of the term "broadcast	12	communications network; that is, it is made up of
13	channel," did you consider the specification of	13	connections that allow a single computer to talk
14	the '147 patent?	14	to another computer, one other computer, and that
15	A. I did.	15	this broadcast channel is then overlaid on this
16	0. Can you tell me what portions of the	16	communications network.
17	'147 patent you relied on?	17	0. So would a person of ordinary skill in
18	A. I considered the entire specification.	18	the art, reading this sentence, understand that
19	Q. Are there any specific portions of the	19	the broadcast channel of the '147 patent is an
20	'147 that you can point to?	20	overlay?
21	A. I mean, the specification begins or,	21	A. Yes. I think they would understand
22	sorry, the patent begins by saying sorry,	22	that the broadcast channel overlays the
23	that's not the specification, by saying in	23	communications network.
24	the the technical field section of this patent	24	I should be clearer, since this has come up
25	says that "the described technology relates	25	in other depositions, that this does not
	Page 19		Page 21
1	generally to a computer network and more	1	necessarily mean that the broadcast channel is
2	particularly to a broadcast channel for a subset	2	being thought of as an overlay network.
3	of computers of an underlying network."	3	However, the broadcast channel itself can be
-	Q. What is your understanding of the term	4	understood to overlay the communications network.
4	~ 1 5		
	"underlying network," as used in the sentence	5	Q. Could you please refer to Lines 25
4		5 6	Q. Could you please refer to Lines 25 through 28 in Column 4
4 5	"underlying network," as used in the sentence		
4 5 6	"underlying network," as used in the sentence that you just read to me?	6	through 28 in Column 4
4 5 6 7	"underlying network," as used in the sentence that you just read to me? A. My understanding is that there is a	6 7	through 28 in Column 4 A. Yes.
4 5 6 7 8	"underlying network," as used in the sentence that you just read to me? A. My understanding is that there is a network that these computers are part of.	6 7 8	through 28 in Column 4 A. Yes. Q of the '147 patent. Can you read
4 5 6 7 8 9	<pre>"underlying network," as used in the sentence that you just read to me? A. My understanding is that there is a network that these computers are part of. Q. What does the term "underlying" mean?</pre>	6 7 8 9	<pre>through 28 in Column 4 A. Yes. Q of the '147 patent. Can you read that sentence, please?</pre>
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>"underlying network," as used in the sentence that you just read to me? A. My understanding is that there is a network that these computers are part of. Q. What does the term "underlying" mean? A. What does the term "underlying" mean? Well, generally I mean, this is speaking in general terms, but generally I would understand this to mean that we are talking about a set of computers that are that are already part of a network and that this patent is going to describe some mechanism for providing a broadcast channel for those computers that are already part of a network. Q. Does the term "underlying" mean that there's an overlay on top of the underlying network? A. So this statement hints that the</pre>	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 through 28 in Column 4 A. Yes. Q of the '147 patent. Can you read that sentence, please? A. "The broadcast technique overlays the underlying network system with a graph of point-to-point connections (i.e., edges) between host computers through which the broadcast channel is implemented." Q. Does this sentence mean that the computers that are connected to the broadcast channel are part of an overlaid network? A. So in my as far as I understand it, this sentence simply asserts that there is a graph of point-to-point connections that is defined between the host computers.
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		1	
1	Page 22 point-to-point connections. That is discussed in	1	Page 24 A. Well, because the network itself can be
2	the context of a single embodiment of this	2	considered a broadcast channel. Right. If I use
3	invention.	3	the network to send information from one computer
4	I'll note as well that the claims under	4	to all other computers, then that network is
5	discussion don't refer to any overlay process.	5	serving as a broadcast channel, which is overlaid
6	They simply talk about methods for healing a	6	on the network.
7	disconnection of computers connected to a	7	Q. What if the broadcast channel is an
8	broadcast channel.	8	overlay, are the computers connected to that
9	Q. Does the sentence I asked you to read	9	broadcast channel an overlay network?
10	include the term "embodiment"?	10	A. Well, as I just said, if I use an
11	A. I'm sorry. Did you ask me only about	11	existing network for broadcasting, then I have
12	the sentence? I thought you had asked farther	12	overlaid a broadcast channel onto that network,
13	ahead. So the first sentence does not refer to	13	but I have not necessarily defined an overlay
14	an embodiment.	14	network.
15	It simply says that there is this broadcast	15	Q. So is it your opinion that computers
16	technique that overlays the underlying network	16	can be connected to a broadcast channel overlay
17	with a graph of point-to-point connections. So	17	without being part of an overlay network?
18	it does describe an overlay.	18	A. Yes, it is.
19	Q. And the does it describe an overlay	19	Q. Is it your opinion that computers can
20	network?	20	be connected to each other through a broadcast
21	A. So this sentence does describe a	21	that is an overlay without being part of an
22	network overlaid on an underlying network.	22	overlay network?
23	Q. And you referred to Claim 6 in your	23	A. Connected to each other through a
24	previous answer. Is that correct?	24	broadcast channel. Well, again, taking
25	A. Yes, I did.	25	"connection" here to have its plain and ordinary
	·		
	Page 23		Page 25
1	Q. Claim 6 does include the term	1	meaning, if one computer is able to broadcast to
		1 -	
2	"broadcast channel." Correct?	2	a number of other computers, then I would say
2 3	"broadcast channel." Correct? A. Correct.		
		2	a number of other computers, then I would say
3	A. Correct.	2 3	a number of other computers, then I would say that those computers are connected to each other
3 4	A. Correct.Q. You previously stated that a broadcast	2 3 4	a number of other computers, then I would say that those computers are connected to each other through the broadcast channel.
3 4 5	A. Correct.Q. You previously stated that a broadcast channel refers to an overlay. Is that correct?	2 3 4 5	a number of other computers, then I would say that those computers are connected to each other through the broadcast channel. Q. And those computers are part of an
3 4 5 6	A. Correct.Q. You previously stated that a broadcast channel refers to an overlay. Is that correct?A. No. Sorry, I said that a broadcast	2 3 4 5 6	a number of other computers, then I would say that those computers are connected to each other through the broadcast channel. Q. And those computers are part of an overlay network?
3 4 5 6 7	 A. Correct. Q. You previously stated that a broadcast channel refers to an overlay. Is that correct? A. No. Sorry, I said that a broadcast channel is typically overlaid on a network, yes, 	2 3 4 5 6 7	a number of other computers, then I would say that those computers are connected to each other through the broadcast channel.Q. And those computers are part of an overlay network?A. I didn't say that.
3 4 5 6 7 8	 A. Correct. Q. You previously stated that a broadcast channel refers to an overlay. Is that correct? A. No. Sorry, I said that a broadcast channel is typically overlaid on a network, yes, but I did not say that a broadcast channel is 	2 3 4 5 6 7 8	a number of other computers, then I would say that those computers are connected to each other through the broadcast channel.Q. And those computers are part of an overlay network?A. I didn't say that.Q. But would that be an accurate
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Page 28 eaning of the term "healing a disconnection" in orming my opinions. And the answer is, yes, I id. As we discussed previously, it's not one of he terms that I was asked to construe a articular meaning for, so I gave it the plain and ordinary meaning of "healing a isconnection," and I did consider that plain and rdinary meaning in my assessment of the claims. Q. Did you put down your opinion on the lain and ordinary meaning of the term "healing a isconnection" in your declaration? A. I don't recall recording it. If you and to point me somewhere, I can take a look. Q. In your opinion, what is the plain and rdinary meaning of "healing a disconnection"? A. So generally speaking, the plain and rdinary meaning of "healing" is taking action to epair or overcome the damage caused by omething. Q. Did you consider the specification of he '147 patent in coming to your understanding f the meaning of "healing a disconnection"? A. Yes, I did. Q. How did the specification of the '147
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f "healing a disconnection"?
A. Well, again, everything in the '147
atent, at least as I recall at present, was
onsistent with this plain and ordinary meaning
f "healing." And so I was able to continue to
pply that plain and ordinary meaning in my
eading.
Q. Are there particular portions of the
147 patent that are particularly salient to your
nderstanding of the term "healing a
isconnection"?
A. Well, I mean, for example, Claim 6 does
escribe a method for healing a disconnection, so
hat makes it particularly salient.
Q. And what do you understand I'm
orry.
How does Claim 6 inform your understanding
f the meaning of the term "healing a
isconnection"?
A. Well, again, Claim 6 describes a method
or dealing with damage caused by a disconnection
or dealing with damage caused by a disconnection nd a particular way of coping with it and is,
nd a particular way of coping with it and is,
d t] s

1	Page 30 Q. Can you turn to Column 8, Lines 66 and	1	Page 32 yes.
2	67, of the '147 patent, please.	2	Q. How did the prosecution history of the
3	(Witness complies.)	3	'147 patent inform your understanding of the
4	A. Yes.	4	meaning of "healing a disconnection"?
5	Q. Can you read that sentence, please.	5	A. So at present, I don't recall anything
6	A. "A connected computer disconnects from	6	in that prosecution history that influenced my
7	the broadcast channel either in a planned or	7	interpretation of the meaning. There might have
8	unplanned manner."	8	been something there, but there's a lot there. I
9	0. Do you understand the term "healing a	9	may have I may not be recalling everything
10	disconnection" to apply to a computer	10	that I saw when I was considering it.
11	disconnecting from the broadcast channel in a	11	Q. Did you consider the meaning of the
12	planned manner?	12	term "message" when forming your opinion
13	A. Well, so we're talking about the term	13	regarding validity of the '147 patent?
14	"healing," which appears in Claim 6. At present,	14	A. Yes, I did.
15	I can't recall whether that term also appears in	15	Q. And is that opinion in your
16	the specification itself.	16	declaration?
17	THE WITNESS: Sorry, could you read	17	A. Once again, as stated in Paragraphs 84
18	back the question.	18	through 89, aside from the four terms listed
19	(The following question was read by	19	there, I took the plain and ordinary meanings of
20	the reporter, as requested.)	20	terms.
21	"QUESTION: Do you understand the term	21	Q. And what is the plain and ordinary
22	'healing a disconnection' to apply to a computer	22	meaning of the term "message" as it's used in the
23	disconnecting from the broadcast channel in a	23	claims of the '147 patent?
24	planned manner?"	24	A. A "message" is some kind of information
25	A. So Claim 6 uses the term "healing," but	25	that is delivered from a sender to a recipient or
	Page 31		Page 33
1	it does not describe a planned or an unplanned	1	multiple recipients, or at least that is intended
2	disconnection. It's silent on that on that	2	for delivery. It may not arrive.
3	distinction.	3	Q. Did you consider the meaning of the
4	I certainly could imagine using the term	4	term "broadcasting" in forming your opinion of
5	"healing" to talk about a planned about coping	5	the validity of the '147 patent?
6	with planned damage, as well as coping with	6	A. Yes, I did.
7	unplanned damage. When somebody goes into the	7	Q. Is that opinion in your declaration?
8	hospital for elective surgery, we still will	8	A. Once again, "broadcast" is another term
9	refer to them as "healing" after that elective	9	which has plain and ordinary meaning.
10	surgery. So I don't think that this single use	10	Q. What is the plain and ordinary meaning
11	of the term "healing" really pins us down as to a	11	of "broadcasting"?
12	planned or an unplanned disconnection.	12	A. Broadcasting is sending information to
13	Q. Does the rest of Claim 6 inform a	13	all participants in a broadcast.
14	person of ordinary skill in the art whether or	14	Q. What are "participants"?
15	not the method applies to a planned or unplanned	15	A. That's another
16	disconnection?	16	plain-and-ordinary-meaning term. That's whoever
17	A. I don't think it really definitively	17	is participating in an activity.
18	determines whether the connection was planned	18	Q. Who were the participants that receive
19	or whether the disconnection was planned or	19	a broadcast message in Claim 6 of the '147
20	unplanned.	20	patent?
	Q. Did you consider the prosecution	21	A. Sorry, you asked me who are the
21		22	participants in Claim 6? So Claim 6 doesn't use
22	history of the '147 patent in coming to your	22	
22 23	understanding of the meaning of the term "healing	23	the term "participants."
22	understanding of the meaning of the term "healing a disconnection"?		the term "participants." Q. Well, you used the term "participants"
22 23	understanding of the meaning of the term "healing	23	

1	Page 34 I'm wondering who the participants are who	1	Page 36 the broadcast that traverses that broadcast		
2	receive the broadcast?	2	channel.		
3	A. I see. Okay. So Claim 6 uses the	3	Q. Do you think it's reasonable to		
4	phrase "when the attempt to send the message is	4	construe Claim 6 in a way that covers an intercom		
5	unsuccessful, broadcasting from the first	5	that broadcasts to people?		
6	computer a connection port search message	6	A. Well, no, because I would not		
7	indicating that the first computer needs a	7	probably I would probably not refer to I		
8	connection."	8	would probably not consider intercoms to be		
9	And so, in that case, the participants would	9	computers.		
10	be anyone listening for that sort of connection	10	I was simply responding to your request for		
11	port search message.	11	an example of participants who were not		
12	Q. And would those be participants of the	12	themselves in the broadcast channel, or who were		
13	m-regular graph where m is at least three?	13	not themselves forming the broadcast channel.		
14	A. Participants of the m-regular graph?	14	Q. Okay. So		
15	Sorry. Could you repeat the question.	15	A. To be clear, the prior art that I		
16	Q. Would those participants would those	16	considered and the ways in which I considered		
17	be participants of the m-regular graph where m is	17	that prior art to render these claims obvious, in		
18	at least three?	18	those examples, the participants who are		
19	A. Got it. So looking at Claim 6, it is	19	performing the broadcasts are themselves the		
20	not obvious that they must be participants in the	20	nodes that make up the m-regular graph. So this		
21	channel themselves. It would be quite reasonable	21	is all somewhat hypothetical.		
22	to talk about a broadcast channel. And in this	22	Q. Did you consider the meaning of the		
23	case, a broadcast channel being an m-regular	23	term "connected" in forming your opinion		
24	graph where m is at least three, and having	24	regarding validity of the '147 patent?		
25	participants who are connected to a broadcast	25	A. Yes, I did.		
	Page 35		Page 37		
1	channel; that is, who are making use of the	1	Q. Is that opinion in your declaration?		
2	broadcast channel to broadcast to one another,	2	A. Again, this was not one of the one		
3	but are themselves that they are connected to	3	of the four terms that I was asked to assume		
4	the broadcast channel, but they do not	4	constructions for. "M-connect" is one of those		
5	necessarily form the broadcast channel. Right.	5	four terms, but "connected" by itself is not.		
6	Now, I should say that in my consideration	6	And so I assigned it the plain and ordinary		
7	of prior art and the obviousness of the claims,	7	meaning.		
8	in the prior art that I considered, the	8	Q. What is the plain and ordinary meaning		
9	recipients of the broadcast, the participants are	9	of the term "connected" as it's used in Claim 6		
10	themselves the nodes that make up this m-regular	10	of the '147 patent?		
11	graph of degree at least three. But I can	11	A. So there are several uses of the term		
12	certainly imagine some reasonable, reasonable	12	"connected" in Claim 6. Are you asking about all		
13	examples in which there would be a broadcast	13	of them?		
14	channel made up of an m-regular graph but with	14	Q. Let's start with the one in the phrase		
15	participants who were listening on that broadcast channel but were not necessarily part of it.	15	"the computers being connected to a broadcast channel."		
16		16			
17	Q. And can you give me an example of those reasonable examples?	17	A. Yeah. So my understanding of		
18	-	18	"connected" in that context is that the computers have access to the broadcast channel, are able to		
19 20	A. So if, for example, we had a number of	19			
20	people with an intercom system and one person	20 21	send messages or and/or receive messages		
21 22	used that intercom to announce something to a	21	through that broadcast channel. Q. And the broadcast channel was an		
	bunch of other people who were listening, I would				
23	probably refer to the intercom system itself as	23	overlay. Correct?		
24 25	the broadcast channel and have I would refer	24	A. It is a channel overlaying well,		
25	to the people as the people making and receiving	25 T C	let's see. Again, Claim 6 does not use the term		
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-	Page 38	_	Page 4
1	"overlay" and certainly does not say that the	1	nodes?
2	broadcast channel is an overlay.	2	A. Yes. To be clear, the language is
3	In fact, what it says is "the broadcast	3	somewhat ambiguous to somebody who is not a
4	channel being an m-regular graph." The plain and	4	plain not a person of ordinary skill, but we
5	ordinary reading of what it's saying is that that	5	will sometimes refer to nodes being connected
6	m-regular graph is being used as a broadcast	6	when we mean connected by a path, a series of
7	channel. In that sense, one could say that the	7	edges, even if they are not directly connected.
8	broadcast channel overlays the m-regular graph.	8	However, in this context, we've I have
9	Q. What is your understanding of the	9	attempted to refrain from that use and use the
10	meaning of the term "connected" as it's used in	10	term "connected" to refer to a direct connection
11	the phrase "having a third computer not already	11	That is an actual edge.
12	connected to said first computer"?	12	Q. Okay. So do you understand the term
13	A. So this is an understanding which is	13	"connected," as it's used in that last element o
14	informed by the specification, because the	14	Claim 6, to refer to a direct connection?
15	specification describes this process of forming	15	A. Yes.
16	these m-regular graphs by identifying certain	16	MR. PRICE: Okay. And we can go off,
17	pairs of computers as neighbors.	17	take a break.
18	And so when it talks about "a computer not	18	THE VIDEOGRAPHER: We are going off th
19	already connected to the first computer," it	19	record at 10:24 a.m., and this will mark the end
20	means a computer where we have not already	20	of Disk 1 of today's deposition. We're off the
21	assigned them to be neighbors in the network.	21	record.
22	Q. What do you mean by the term	22	(A recess was taken.)
23	"neighbors"?	23	THE VIDEOGRAPHER: The time now is
24	A. Well, I recognize that it's somewhat	24	10:51 a.m. We are coming back on the record.
25	circular, but this is sort of a graph theoretic	25	This begins Disk 2 of our deposition with
	Page 39		Page 4
1	concept. When you have a graph, the graph	1	Dr. David Karger. We're on the record.
2	involves edges that are that describe pairs of	2	BY MR. PRICE:
3	nodes that are connected to one another, and	3	Q. Dr. Karger, are you familiar with the
4	those connected nodes are referred to as	4	Shoubridge reference?
5	"neighbors."	5	A. Yes, I am.
6	MR. MURRAY: Break?	6	Q. What do you understand the Shoubridge
7	MR. PRICE: Five minutes.	7	reference to teach?
8	THE WITNESS: Sure. A break in five	8	A. Well, if we're going to be discussing
9	minutes or take a five-minute break?	9	the Shoubridge reference, I'd like to have a
10	MR. PRICE: In five minutes.	10	copy.
11	(Discussion off the record.)	11	MR. PRICE: Sure. The court reporter
12	BY MR. PRICE:	12	is going to hand you Exhibit No. 3.
13	Q. Okay. So can you please turn to	13	(Article entitled "Hybrid
14	Page 27 of your declaration.	14	Routing in Dynamic Networks" marked
15	A. Page or paragraph?	15	Exhibit 3.)
16	Q. Page.	16	THE WITNESS: Oh, that's small.
17	(Witness complies.)	17	MR. MURRAY: I'll take one.
18	A. Mm-hmm.	18	THE WITNESS: Do we have a magnifying
19	Q. Do you see Footnote 4?	19	glass?
20	A. Mm-hmm.	20	BY MR. PRICE:
21	Q. Are these the type of connections you	21	Q. Do you recognize this exhibit?
22	were just discussing?	22	A. Yes, I do.
23	A. Yes, they are.	23	Q. This was an article called "Hybrid
	Q. So in graph theory, a "connection"	24	Routing in Dynamic Networks" by Peter Shoubridge
24			

		/	
1	Page 42 IPR2006-00747. Is that correct?	1	Page 44 delivery of traffic from a single source to a
2	A. That's correct.	2	single recipient. That is sort of the goal that
3	Q. What do you understand this reference	3	he has in mind for routing.
4	to teach?	4	When he refers to "routing by flooding," he
5	A. Well, generally speaking, this	5	is observing that if you use flooding, which is a
б	reference addresses a variety of techniques for	6	broadcast technique which gets information to
7	broadcasting messages or for delivering messages	7	every node in a network, it will, of course, get
8	to participants in communication networks.	8	the information to the intended recipient of that
9	It considers issues of change in the	9	information.
10	network, dynamic networks, nodes and links 💳	10	Q. Shoubridge mentions the term "flood
11	failing and recovering. It discusses flooding, a	11	search routing" on the bottom of Page 1382. Is
12	well-known technique for using a network as a	12	that the same concept you were just referring to?
13	broadcast channel. And it compares the	13	A. Yes. So the flood search routing that
14	performance of a number of different routing	14	is discussed in the bottom of Page 1382 is that
15	algorithms on a grid network.	15	general flooding procedure that I already
16	Q. What are "routing algorithms"?	16	described.
17	A. Well, speaking broadly, a routing	17	Q. Can you refer to the first full
18	algorithm is just an algorithm for getting a	18	paragraph in that same column.
19	packet of information from its source to its	19	A. On 1382?
20	recipients, one or many.	20	Q. Mm-hmm.
21	Q. And you understand Shoubridge to teach	21	A. Yes.
22	one or more routing algorithms?	22	Q. Do you see where it says "routing
23	A. Among the things that Shoubridge	23	algorithms are executed in each of the N nodes in
24	teaches are methods for routing messages to	24	G"?
25	participants in communication networks. He also	25	A. Yes, I do.
1	Page 43 teaches "broadcast," which it might be referred	1	Page 45 Q. What does that sentence mean to you?
2	to as a "routing algorithm," but probably not.	2	A. So "routing algorithms" here is used in
3	It's more just a way of getting information	3	the phrase in the sense of actually, hold
4	to everybody in the network.	4	on.
5	Q. Where does Shoubridge disclose	5	Sorry. The question again?
6	"broadcasting"?	6	Q. What does the first sentence in the
7	A. Well, he discloses a broadcasting	7	first full paragraph, second column of 1382, mean
8	protocol called "flooding" in which a node sends	8	to you?
9	a message to all of its neighbors, and each	9	A. "Routing algorithms are executed in
10	neighbor, upon receiving a message for the first	10	each of the N nodes in G"?
11	time, broadcasts the message to all of its	11	Q. Yes.
12	neighbors, except for the one from which it	12	A. So this is describing one of several
13	received the message.	13	routing methods that are considered in the
14	Q. Can you please refer to, I guess	14	Shoubridge article. At this point in the paper,
15	page we'll go with the Shoubridge page	15	they're talking about a shortest path-based
16	numbers. I think it will be easier. 1381 in the	16	routing procedure known as Jaffe-Moss, I believe.
17	right column, first full paragraph.	17	In this routing procedure, nodes exchange
18	A. Yes.	18	information in order to compute shortest paths
19	Q. What does Shoubridge mean here when he	19	between any source and any destination in the
20	says "routing by flooding"?	20	network, which allows routing to deliver a packet
21	A. Sorry. Could you restate the question.	21	by moving it along those shortest paths.
22	Q. What does Shoubridge mean by the term	22	And so what this sentence is saying is that
23	"routing by flooding"?	23	these that all of these nodes are executing
24	A. Well, in his introduction, Shoubridge	24	this routing algorithm so that you can send from
		05	
25	is generally referring to "routing" as the	25	any source to any destination.

1Q. Does the shortest hop under the minimum-hop, shortest-path algorithm use routing1in Shoubridge here to be modeling physical links?2A. Well, by physical so, again, this is3a simulation. So what it is its model is4A. The shortest-hop algorithm, which is that is the Jaffe-Moss algorithm described here, 6 does use routing tables.37Q. What are "routing tables." what it is that simulation model has no 5 physical links.7Q. What are "routing tables." what it is that simulation model has no 5 physical links.8A. Well, as used in this reference, 9 routing tables provide information about what to 10 do with a received packet. In particular, gfven 11 the destination of that received packet, they 12 will tell you which outgoing link or links1014order to move it towards its ultimate destination 14order to move it towards its ultimate destination 15 or destinations.1116Q. Previously, we were talking about the 1717Q. But Shoubridge teach a graph with 2016Q. T on Page 27.A. Me-hmm. 20Q. T on Page 27.17A. Yes, he does. 20Q. Where does Shoubridge teach a graph with 212123A. Were does Shoubridge teach a graph of2324A. Yes, he does. 25Q. Where does Shoubridge teach a graph of2425Q. Where does Shoubridge teach a graph of2426Q. Where does Shoubridge teach a graph of2527A. Yes, he does. 252526Q. Where does		NOVELIDEI		, 2010	
2 a. Nucl., by physical - a., again, this is 3 tables? 4 A. The shortest-hop algorithm, which is 5 that is the Jaffe-Mose algorithm described here, 6 descuer conting tables? 7 O. What are 'rooting tables? 8 A. Well, as used in this reference, 9 routing tables provide information about what to 10 do with a received packet. In particular, gftwain 11 the destination of the received packet, they 12 work 13 abould you should forward that packet on in 14 corder to more it towards its ultimate destination 15 or destinations. 16 of electantions. 17 term 'direct connection? 18 declaration in Pootnote 4 19 A. Yes. 10 new brain 12 A. Wes., he does. 13 direct connections? 14 A. Yes., he does. 15 order towards its ultimate destination 16 order towards its ultimate destination 17 A. Wes., he does. <		5		Page 48	
3 tables? 3 a simulation. So what it is its model is 4 A. The shorts-hop algorithm description description description description description description. 5 6 description description description description. 5 7 O. What are 'routing tables?' 6 8 Neall, as used in this reference, 7 9 routing tables provide information about what to 10 10 devide a received gasket. In particular, given 10 11 the destination of that received gasket. In particular, given 10 12 will telly use which outgring link or link 11 13 and received gasket. In particular, given 10 14 order to more it towards its ultimat destination 11 metork, for the matter, where the links would 16 0. Previously, we were talking about the 16 be dividige description (a noreally network. Curreet?) 13 A. Yee, he does. 20 A. Dess Shoubridge teach a graph of 2 0. A were does shoubridge teach a graph of 11 none of the claim numbers at issue today make 2 0. Where does shoubridge					
4 A. The shortest-bop algorithm, which is 4 ar what it is that simulation model has no 5 that is the Jaffe-Mose algorithm described here, 5 physical links. 6 Ges use routing tables - The meteryk being modeled would neat likely 7 Q. What are 'routing tables? - - The meteryk being modeled would neat likely 8 A. Well, as used in this reference, - Subbridge is actually interested in 10 do with a received packet. In particular, given 10 network bath can be created through wieless 11 the destinations. - Subbridge is actually interested in 12 will tell you which outgoing link or links - Subbridge desn't disclose an overlay 13 doclarst on move it towards its ultimate destination - No reade size of the deliam numbers at issue towards 14 cornections? 0 No free dess Subbridge tasch a graph with 15 or destinations. - - actions on overlay metwork. 14 decensetions? - - - - - 14 order to mometions? Page 47 -					
5 that is the Jaffe-Moss algorithm described here, 6 gebysical links. 7 6 does use routing tables? — The network being modeled would nost likely 7 0. What are "couing tables?' — 8 8 A. Well, as used in this seferemes, 9 Sobubidge is actually interested in 10 do with a received packet. In particular, gftwen 10 networks that can be created through wireless 11 the destination of that received packet, they 10 networks that can be created through wireless 12 will tably you which outgoing link or links 10 networks that can be created through wireless 13 bound - you should forward that packet on in 10 networks that can be created through wireless 14 order to move it towards its ultimate destination 14 You could also implement it as an overlay 16 0. Previously, we were talking about the 10 network So l'll point out, once again, that 12 A. Wes. 10 necessary for this declaration to frame that 13 declarations in Montridge teach a graph off 10 11 11 necessary for this declaration to fram that 12 14					
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8 A. Well, as used in this reference, 9 mean that it has links made of matter. 9 routing tables provide information about what to 5 Shoubridge is actually interested in 10 do with a received packet, in particular, given 11 networks that can be created through wireless 11 the destination of that received packet, in particular, given 11 networks that can be created through wireless 12 will tell you which outgoing link or links 11 network that can be created through wireless 13 about - you should forward that packet on in 13 way. 14 order to move it towards its packet on in 14 You could also implement your network either 14 declaration in Footnote 4 16 to verslay network. Correct? 18 15 order to move it towards that packet a graph with 17 0. Boes Shoubridge teach a graph with 17 0. Does Shoubridge teach a graph of 12 13 direct connections? Page 47 1 file macargen, Shoubridge teach a graph of 12 13 14 pace ado its network. At the so ame time, Shoubridge desen or and so it was 't 14 formation about what this as 15 16		-			
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14 order to nove it towards its ultimate destination 14 You could also implement it as an overlay network, for that matter, where the links would 15 or destinations. 15 network, for that matter, where the links would 16 Q. Previously, we were talking about the 16 be virtual. 17 term "direct connection" that you use in your 17 Q. But Shoubridge deem't disclose an overlay 18 declaration in Footnote 4 18 overlay network. Correct? 19 A. Yes. 20 0 on Page 27. 20 20 D. Does Shoubridge teach a graph with 21 3. Booburidge does not and so it wasn't 21 A. Mes, he does. 22 reference to an overlay network. 24 A. Yes, he does. 23 Shoubridge does not and so it wasn't 25 not as G. The network is a large regular 6 Same time, shoubridge does disclose this grid 3 network in simulation. 14 A person of ordinary skill would have 3 owerlay network using Shoubridge teact. 9 voerlay network. 14 4 64-node network with connectivity of degree 4 is 4 A person of ordinary skill would have					
15 or destinations. 15 network, for that matter, where the links would 16 0. Previously, we were talking about the 16 be virtual. 17 term "direct connection" that you use in your 18 overlay network. Correct? 19 A. Yes. 19 A. Does Shoubridge teach a graph with 20 Q on Page 27. 20 network? So I'll point out, once again, that 21 A. Mu-hrm. 21 network? So I'll point out, once again, that 23 direct connections? 22 Shoubridge does not and so it wasn't 24 A. Yes, he does. 25 Q. Where does Shoubridge, the first 3 full paragraph, Shoubridge observes that "a 3 4 64-node network with connectivity of degree 4 is 5 modeled as G. The network is a large regular 6 graph forming a Wamhattan grid network that is being 1 Shoubridge is network. 11 been wrapped around itself as a tourist to avoid 8 overlay network using Shoubridge: s using 12 connections between neighboring nodes. 10 Netless, would use Shoubridge is using 12 onetwork is full would understand the network that is be				-	
16 Q. Previously, we were talking about the 16 be virtual. 17 term "direct connection" that you use in your 18 be virtual. 18 declaration in Footnote 4 19 A. Sees 19 A. Yes. 19 A. Dees Shoubridge disclose an overlay 20 Q on Page 27. 19 A. Mehmm. 21 A. Mehmm. 20 Dees Shoubridge teach a graph with 23 G. Dees Shoubridge teach a graph with 23 Shoubridge does not and so it wasn't 24 A. Yes, he does. 24 Shoubridge does not and so it wasn't 25 Q. Mhere does Shoubridge teach a graph of 25 conclusion about whether they about whether 25 Q. Mere does Shoubridge teach a graph of 25 Shoubridge discloses an overlay network. 26 A. On Page 1383 of Shoubridge, the first 3 full paragraph, Shoubridge observes that "a 3 full paragraph, Shoubridge does not ready network is a large regular 6 same time, Shoubridge does not werlay network. 4 6 deedse effects." 9 So this description, a person of ordinary 15 10 edstorbidge to have these d					
17 term 'direct connection' that you use in your 17 Q. But Shoubridge doesn't disclose an 18 declaration in Footnote 4 18 overlay network. Correct? 19 A. Yes. 20 on Page 27. 20 21 A. Mm-hmm. 20 Q. Does Shoubridge teach a graph with 21 none of the claim numbers at issue today make 22 Q. Does Shoubridge teach a graph with 23 Shoubridge does not and so it wasn't 24 A. Yes, he does. 24 necessary for this declaration to draw that 25 Q. Mhere does Shoubridge teach a graph of 25 Shoubridge does not and so it wasn't 25 Q. Mere does Shoubridge teach a graph of 26 Shoubridge discloses an overlay network. At the 26 A. On Page 1383 of Shoubridge, the first an etwork in simulation. 4 3 full paragraph. Shoubridge teach a large regular 5 modeled as G. The network is a large regular 6 3 full paragraph. Shoubridge to have these direct 7 practice of overlaying the X25 protocol over 4 been waraped arouid itself as a tourist to avoid 9 Sthubridge is network. 9 So this description, a					
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	25	Q. Do you understand the model disclosed	25	Q. In the year 2000?	
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		(415) 3	62-	4346 46 to 49	

1	Page 50 A. Yes. X25 was already old by then, and	1	Page 52 nodes from the graph?
2	it was recognized that there would be a need to	2	A. Well, I guess it's sort of a matter of
3	take legacy systems over to TCP/IP. There was	3	interpretation. If all of the links incident on
4	there was some RFC out already, describing	4	a node fail, then essentially that node is
5	that that process.	5	removed from the graph because nobody else can
6	Q. Which RFC was it?	6	talk to it anymore.
7	A. Oh, I don't remember the number.	7	So, in that sense, he does have as a case in
8	Q. Can you please refer to the second full	8	his simulation the removal of a node.
9	paragraph on Page 1382, Column 2.	9	Q. But that would be predicated on, for
10	A. Column 2. Yes.	10	example, link failure, all of the links failing?
11	Q. What does Shoubridge mean here by "link	11	A. Yeah. That would have an equivalent
12	cost change events"?	12	effect. Right. If the node fails, nobody can
13	A. Sorry. Could you restate the question.	13	talk to it. If all the links coming into the
14	Q. What are "link cost change events"?	14	node fail, nobody can talk to it.
15	A. So link costs, in general, are sort of	15	Q. Do you have an understanding of
16	an abstract measure of the quality of a link. As	16	networks with fixed topology versus networks with
17	you can see in the first paragraph of the second	17	dynamic topology?
18	column of Page 1382, Shoubridge discussed how if	18	A. Well, I think it's worth pointing out
19	link cost functions reflect both connectivity and	19	what Shoubridge says is that G has essentially
20	delay, then minimum delay routing can be employed	20	fixed topology. And, in fact, goes on in the
21	to enhance performance.	21	next sentence to talk about topology change being
22	So there are sort of, you know, the most	22	modeled by having link quality changing between
23	fundamental issue of a link is just whether the	23	one of two possible states.
24	link is available or not, whether it can carry	24	So Shoubridge's network is not a, literally,
25	traffic at all. But you may wish to sort of	25	"fixed topology network," which I guess would
1	Page 51 refine further and talk about whether the link is	1	Page 53 mean that there is no change at all in what links
2	highly congested, will, therefore, cause a large	2	are present.
3	delay in transmission.	3	He's simply saying that the topology change
4	If that's the case, you might assign a high	4	that he has chosen to model is a sort of
5	cost to that link in order to discourage the	5	restricted kind of topology change, where all
6	shortest-path algorithm from making use of it.	6	that happens is the links that were initially
7	Q. What does it mean for the graph to have	7	present may fail and return.
8	"essentially fixed topology with links always	8	Q. And I believe you said before that
9	existing between nodes and their respective	9	Shoubridge does not consider the possibility of
10	neighbors"?	10	defining new links. Correct?
11	A. So I think what Shoubridge is talking	11	A. In Shoubridge's simulation, he
12	about here is a way that he sort of simplified	12	restricts to the restoration of links that were
13	his simulation work.	13	previously present. I mean, in a sense, those
14	Again, the purpose of this article was to	14	are new links.
15	run a simulation in order to assess the quality	15	Certainly Shoubridge does not, in his
16	of various routing algorithms. And what he is	16	Q. Right.
17	saying here is that he is going in his	17	A this is a single simulation of a
18	simulation, he's going to stick to that sort of	18	general concept, and it is understood that in
19	overlying that overall grid topology.	19	networks, in general, links may come. Links may
20	He is only going to have those edges fail or	20	be added that were not previously present.
21	come back, and he's not going to introduce other	21	MR. PRICE: Dr. Karger, the court
22	edges in the simulation, which most likely	22	reporter is going to hand you Exhibit No. 4.
23	simplified his implementation of that simulation.	23	(Article entitled "'Evolution'
24	Q. So is it fair to say that the	24	by vertex of even-order regular graphs"
25	Shoubridge's simulation doesn't add or remove	25	marked Exhibit 4.)
L	U.S. LEGA		
	(415) 3	4346 50 to 53	

1	Page 54	1	Page 56
1	BY MR. PRICE:		edges that go through a pair that go through
2	Q. Do you recognize this document,	2	some other node. If you'll hang on a second.
3	Dr. Karger?	3	Sorry to pause mid answer, but there's something
4	A. Yes. This is a translation of an	4	that I wanted to point out.
5	article by Dénes on the on methods for	5	Yeah. This is, I believe, essentially the
6	evolving graphs, as nodes are added or removed.	6	same as the procedure referred to as "edge
7	Q. Okay. This was the article is	7	pinning" in the patent.
8	called "'Evolution' by vertex of even-order	8	Q. And where are you referring to?
9	regular graphs," a translation?	9	A. That's what I'm trying to find. Ah.
10	A. Yes. Yes.	10	This is in Column 6, first paragraph. "The
11	Q. It was submitted as Exhibit 1017 in	11	process of breaking the connection between two
12	this case. Correct?	12	neighbors and reconnecting each of the former
13	A. Correct.	13	neighbors to another computer is referred to as
14	Q. Is it fair to say that this reference	14	'edge pinning,' as the edge between two nodes may
15	is concerned with graph theory?	15	now be considered to be stretched and pinned to a
16	A. Yes, it is.	16	new node." And that is what the EC
17	Q. Have you taught any courses on graph	17	transformation is doing.
18	theory?	18	Q. Do you see the ET to the minus 1
19	A. They make up a good part of some of the	19	transformation on Page 366?
20	algorithms courses that I teach. Yes.	20	A. Yes, I do.
21	Q. What is "graph theory"?	21	Q. Can you please explain this
22	A. Well, graph theory is the mathematics	22	transformation?
23	that provides the theoretical underpinnings for	23	A. Well, this transformation is a
24	studying networks, such as the ones under	24	procedure for removing a vertex from a graph.
25	consideration today.	25	It's the inverse of the ET transformation on the
<u> </u>			
1	Page 55	1	Page 57
1	Q. So you agree that graph theory applies	1	previous page for adding a vertex to a graph.
2	to the subject matter claimed in the '147 patent?	2	If you're going to remove a vertex, you have
3	A. I do.	3	to decide what to do with the edges that are
4	Q. Is it fair to say that Dénes is	4	incident on that vertex. And the ET inverse
5	concerned with performing transformations on	5	transformation says that you take the neighbors
6	graphs?	6	of that vertex, the K neighbors of that vertex,
7	A. Yes.	7	and you join pairs of those neighbors.
8	Q. What does it mean to "transform a	8	So this is sort of unpinning the edges.
9	graph"?	9	It's the reverse of the pinning procedure. It
10	A. Well, he's describing ways of modifying	10	sort of matches up pairs of neighbors and creates
11	a graph, changing it into another graph, by	11	an edge between each of those pairs of neighbors.
12	adding more or removing nodes and edges.	12	This ensures that the degree of each of
13	Q. Does Dénes disclose sending messages	13	those neighbors is left unchanged. And this,
14	between nodes of graphs?	14	again, is essentially the procedure described in
15	T design and the second of the design and the design of the second of	15	the patent for how to deal with the departure of
	A. I don't recall him doing so. I doubt		a mada
16	it.	16	a node.
16 17	it. Q. Do you see the description of the EC	17	Q. Can you refer to theorem 2 on Page 3 of
16	<pre>it. Q. Do you see the description of the EC transformation on Page 365? And I'm going to</pre>	17 18	
16 17 18 19	<pre>it. Q. Do you see the description of the EC transformation on Page 365? And I'm going to refer to the inlaid page numbers.</pre>	17 18 19	Q. Can you refer to theorem 2 on Page 3 of6.A. Yes, I can.
16 17 18	<pre>it. Q. Do you see the description of the EC transformation on Page 365? And I'm going to</pre>	17 18	Q. Can you refer to theorem 2 on Page 3 of 6.
16 17 18 19	<pre>it. Q. Do you see the description of the EC transformation on Page 365? And I'm going to refer to the inlaid page numbers.</pre>	17 18 19	Q. Can you refer to theorem 2 on Page 3 of6.A. Yes, I can.
16 17 18 19 20	<pre>it. Q. Do you see the description of the EC transformation on Page 365? And I'm going to refer to the inlaid page numbers. A. Yes, I do.</pre>	17 18 19 20	 Q. Can you refer to theorem 2 on Page 3 of 6. A. Yes, I can. Q. Do you see where it says, "This ET to
16 17 18 19 20 21	<pre>it. Q. Do you see the description of the EC transformation on Page 365? And I'm going to refer to the inlaid page numbers. A. Yes, I do. Q. Can you explain what is happening in</pre>	17 18 19 20 21	 Q. Can you refer to theorem 2 on Page 3 of 6. A. Yes, I can. Q. Do you see where it says, "This ET to the minus 1 transformation can be applied to a
16 17 18 19 20 21 22	<pre>it. Q. Do you see the description of the EC transformation on Page 365? And I'm going to refer to the inlaid page numbers. A. Yes, I do. Q. Can you explain what is happening in this transformation?</pre>	17 18 19 20 21 22	 Q. Can you refer to theorem 2 on Page 3 of A. Yes, I can. Q. Do you see where it says, "This ET to the minus 1 transformation can be applied to a graph if and only if there exists a
16 17 18 19 20 21 22 23	<pre>it. Q. Do you see the description of the EC transformation on Page 365? And I'm going to refer to the inlaid page numbers. A. Yes, I do. Q. Can you explain what is happening in this transformation? A. Sure. The EC transformation is a</pre>	17 18 19 20 21 22 23	 Q. Can you refer to theorem 2 on Page 3 of A. Yes, I can. Q. Do you see where it says, "This ET to the minus 1 transformation can be applied to a graph if and only if there exists a T-characterized vertex P"?

1	Page 58	1	Page 60
1	A. Yes, I do.	1 2	becomes faulty, you can continue to work the
2	Q. What does that mean?		other one.
3 4	A. Well, it means what it says, that so	3	Q. Do you see the term "token-bus LAN" at the end of the abstract?
	long as there is a T-characterized vertex, it is	5	
5	possible to apply this transformation to that T-characterized vertex. If there is no	6	
			Q. Do you understand what the term
7	T-characterized vertex, then it is not possible	7	"token-bus" refers to here?
	to apply this transformation.		A. So as you can see in Section 3 of the
9	MR. PRICE: The court reporter is going	9	Rufino reference, the token-passing bus is a
10	to hand you Exhibit No. 5.	10	local area network which has gathered growing
11	(Article entitled "A Study on	11	attention and has been selected for use in the
12	the Inaccessibility Characteristics of ISO	12	manufacturing automation protocol, which is used
13	8802/4 Token-Bus LANs" marked Exhibit 5.)	13	to interconnect devices in factories.
14	BY MR. PRICE:	14	It is a system/protocol in which a logical
15	Q. Do you recognize this document,	15	ring is established over a physical bus, physical
16	Dr. Karger?	16	network. That logical ring is used to manage
17	A. Yes, I do.	17	access to the shared broadcast medium provided by
18	Q. It is titled "A Study on the	18	the physical bus.
19	Inaccessibility Characteristics of ISO 8802/4	19	Q. So would you characterize Rufino as
20	Token-Bus LANs."	20	being about token-bus networks?
21	A. Mm-hmm.	21	A. As being about token-bus networks? I
22	Q. I believe this is the reference that is	22	mean, that is the that is the focus of his
23	being referred to as the "Rufino reference"?	23	attention.
24	A. Correct.	24	Q. Would you agree that a token-bus
25	Q. It was submitted as Exhibit 1011 in	25	network is a local area network formed in a bus
	Page 59		Page 61
1			
1	this case. Correct?	1	topology?
2	A. Yes.	2	A. Well, again, a token-bus network is
2 3	A. Yes.Q. Are you familiar with this reference?	2 3	A. Well, again, a token-bus network is actually an overlay network of sorts. It is a
2 3 4	A. Yes.Q. Are you familiar with this reference?A. Yes, I am.	2 3 4	A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system
2 3 4 5	A. Yes.Q. Are you familiar with this reference?A. Yes, I am.Q. What do you understand the Rufino	2 3 4 5	A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a
2 3 4 5 6	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? 	2 3 4 5 6	A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus.
2 3 4 5 6 7	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for 	2 3 4 5 6 7	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a
2 3 4 5 6 7 8	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for overlaying a token ring on a local area network. 	2 3 4 5 6 7 8	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a token-bus network: A physical component and a
2 3 4 5 6 7 8 9	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for overlaying a token ring on a local area network. This provides a particular protocol to manage 	2 3 4 5 6 7 8 9	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a token-bus network: A physical component and a logical overlay?
2 3 4 5 6 7 8 9 10	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for overlaying a token ring on a local area network. This provides a particular protocol to manage communications between a collection of nodes 	2 3 4 5 6 7 8 9 10	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a token-bus network: A physical component and a logical overlay? A. That's correct.
2 3 4 5 6 7 8 9 10 11	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for overlaying a token ring on a local area network. This provides a particular protocol to manage communications between a collection of nodes sharing a local area network. 	2 3 4 5 6 7 8 9 10 11	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a token-bus network: A physical component and a logical overlay? A. That's correct. Q. And the physical component is a bus
2 3 4 5 6 7 8 9 10 11 12	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for overlaying a token ring on a local area network. This provides a particular protocol to manage communications between a collection of nodes sharing a local area network. Q. What is a local area network? 	2 3 4 5 6 7 8 9 10 11 12	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a token-bus network: A physical component and a logical overlay? A. That's correct. Q. And the physical component is a bus topology in which stations are connected to a
2 3 4 5 6 7 8 9 10 11 12 13	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for overlaying a token ring on a local area network. This provides a particular protocol to manage communications between a collection of nodes sharing a local area network. Q. What is a local area network? A. A local area network, generally 	2 3 4 5 6 7 8 9 10 11 12 13	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a token-bus network: A physical component and a logical overlay? A. That's correct. Q. And the physical component is a bus topology in which stations are connected to a single shared data highway?
2 3 4 5 6 7 8 9 10 11 12 13 14	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for overlaying a token ring on a local area network. This provides a particular protocol to manage communications between a collection of nodes sharing a local area network. Q. What is a local area network? A. A local area network, generally speaking, is a network for a set of computers 	2 3 4 5 6 7 8 9 10 11 12 13 14	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a token-bus network: A physical component and a logical overlay? A. That's correct. Q. And the physical component is a bus topology in which stations are connected to a single shared data highway? A. So I'm not sure of all of the details
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for overlaying a token ring on a local area network. This provides a particular protocol to manage communications between a collection of nodes sharing a local area network. Q. What is a local area network? A. A local area network, generally speaking, is a network for a set of computers that are in a in a small, local area. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a token-bus network: A physical component and a logical overlay? A. That's correct. Q. And the physical component is a bus topology in which stations are connected to a single shared data highway? A. So I'm not sure of all of the details of the token-bus specification. There is a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for overlaying a token ring on a local area network. This provides a particular protocol to manage communications between a collection of nodes sharing a local area network. Q. What is a local area network? A. A local area network, generally speaking, is a network for a set of computers that are in a in a small, local area. Q. Can you refer to the abstract of the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a token-bus network: A physical component and a logical overlay? A. That's correct. Q. And the physical component is a bus topology in which stations are connected to a single shared data highway? A. So I'm not sure of all of the details of the token-bus specification. There is a specification, ISO 8802. That specification may
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for overlaying a token ring on a local area network. This provides a particular protocol to manage communications between a collection of nodes sharing a local area network. Q. What is a local area network? A. A local area network, generally speaking, is a network for a set of computers that are in a in a small, local area. Q. Can you refer to the abstract of the paper? A. Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a token-bus network: A physical component and a logical overlay? A. That's correct. Q. And the physical component is a bus topology in which stations are connected to a single shared data highway? A. So I'm not sure of all of the details of the token-bus specification. There is a specification, ISO 8802. That specification may require a physical broadcast network, but all that's really needed in order to provide the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for overlaying a token ring on a local area network. This provides a particular protocol to manage communications between a collection of nodes sharing a local area network. Q. What is a local area network? A. A local area network, generally speaking, is a network for a set of computers that are in a in a small, local area. Q. Can you refer to the abstract of the paper? A. Yes. Q. What is a "nonreplicated local area network"? It's on the second paragraph of the abstract. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a token-bus network: A physical component and a logical overlay? A. That's correct. Q. And the physical component is a bus topology in which stations are connected to a single shared data highway? A. So I'm not sure of all of the details of the token-bus specification. There is a specification, ISO 8802. That specification may require a physical broadcast network, but all that's really needed in order to provide the in order to implement the ideas of Rufino is an underlying broadcast channel that that logical ring is defined, and the operations that need to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Yes. Q. Are you familiar with this reference? A. Yes, I am. Q. What do you understand the Rufino reference to teach? A. Well, Rufino teaches a mechanism for overlaying a token ring on a local area network. This provides a particular protocol to manage communications between a collection of nodes sharing a local area network. Q. What is a local area network? A. A local area network, generally speaking, is a network for a set of computers that are in a in a small, local area. Q. Can you refer to the abstract of the paper? A. Yes. Q. What is a "nonreplicated local area network"? It's on the second paragraph of the abstract. A. Well, a nonreplicated LAN is a LAN that 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Well, again, a token-bus network is actually an overlay network of sorts. It is a network which overlays sorry, it is a system which overlays a ring-shaped network over a over a bus. Q. So there are two components to a token-bus network: A physical component and a logical overlay? A. That's correct. Q. And the physical component is a bus topology in which stations are connected to a single shared data highway? A. So I'm not sure of all of the details of the token-bus specification. There is a specification, ISO 8802. That specification may require a physical broadcast network, but all that's really needed in order to provide the in order to implement the ideas of Rufino is an underlying broadcast channel that that logical ring is defined, and the operations that need to be performed are defined by relying on some
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1	Page 62 other broadcast channel if you wished.	1	Page 64 broadcast, which means that if one node
2	Q. Yeah. I'm asking about how Rufino	2	transmits, then all nodes will directly receive
3	implements its token-bus network.	3	that transmission. And so, in that sense, I
4	A. Well, again, Rufino is analyzing the	4	would probably characterize those nodes as being
5	behavior of a token-bus network under a variety	5	directly connected through the bus.
6	of errors and describing mechanisms for	6	But just to be clear, that this is that,
7	recovering from a variety of faults. Those	7	again, we haven't defined a graph, and so there
8	methods could apply anywhere you had an	8	are not necessarily edges to be discussed in the
9	underlying broadcast channel.	9	context of that direct connection.
10	Certainly, what he describes is a logical	10	Q. Is it unreasonable to envision a graph
11	ring implemented over a physical bus. But a	11	of stations connected to a bus?
12	person of ordinary skill reading this would have	12	A. Well, you could define a graph
13	understood that any broadcast channel with	13	describing the connections of stations to the
14	certain time limits on the time it takes to	14	bus. That graph might, for example, be some sort
15	broadcast could be used as the underlying	15	of tree shape representing the physical wires
16	broadcast channel on which to apply Rufino's	16	that make up the bus. But it's then worth noting
17	ideas.	17	that in that graph, you would no longer
18	THE WITNESS: If we can squeeze in a	18	necessarily say that nodes are directly connected
19	short break at some point, that would be great.	19	to each other, because now the bus has been sort
20	MR. PRICE: I'm okay with a break now.	20	of unpacked as a tree of individual wires. And
21	THE WITNESS: Okay.	21	so in that graph, the connections would no longer
22	THE VIDEOGRAPHER: The time is	22	be direct.
23	11:41 a.m. We're going off the record.	23	Q. Are there other shapes, other than a
24	(A recess was taken.)	24	tree, that you could envision a the stations
25	THE VIDEOGRAPHER: The time is 11:58.	25	connected to a physical bus being laid out in a
	Page 63		Page 65
1	We're back on the record.	1	graph?
2	BY MR. PRICE:	2	MR. MURRAY: Object to the form.
3	Q. Would you agree that a token-bus	1 2	A. Yeah. I believe there are other bus
		3	
4	network uses token passing to regulate traffic on	4	structures that are used. A ring is a popular
4 5	a shared data bus?	4 5	structures that are used. A ring is a popular shape for a bus, because it allows a failure to
4 5 6	a shared data bus? A. A token-bus network uses a token to	4 5 6	structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the
4 5 6 7	a shared data bus? A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that	4 5 6 7	structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example.
4 5 7 8	a shared data bus?A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that is its intention.	4 5 6 7 8	structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example. Q. Can you refer to Paragraph 113 of your
4 5 7 8 9	a shared data bus?A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that is its intention.Q. In a token-bus network, would you	4 5 6 7 8 9	<pre>structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example. Q. Can you refer to Paragraph 113 of your declaration.</pre>
4 5 7 8 9 10	a shared data bus?A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that is its intention.Q. In a token-bus network, would you characterize the stations as being connected via	4 5 7 8 9 10	<pre>structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example. Q. Can you refer to Paragraph 113 of your declaration. (Witness complies.)</pre>
4 5 7 8 9 10 11	a shared data bus?A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that is its intention.Q. In a token-bus network, would you characterize the stations as being connected via the bus?	4 5 7 8 9 10 11	<pre>structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example. Q. Can you refer to Paragraph 113 of your declaration.</pre>
4 5 7 8 9 10 11 12	 a shared data bus? A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that is its intention. Q. In a token-bus network, would you characterize the stations as being connected via the bus? A. Yes, I would. 	4 5 7 8 9 10 11 12	<pre>structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example. Q. Can you refer to Paragraph 113 of your declaration.</pre>
4 5 7 8 9 10 11 12 13	 a shared data bus? A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that is its intention. Q. In a token-bus network, would you characterize the stations as being connected via the bus? A. Yes, I would. Q. Would you characterize the stations as 	4 5 7 8 9 10 11 12 13	<pre>structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example. Q. Can you refer to Paragraph 113 of your declaration.</pre>
4 5 7 8 9 10 11 12 13 14	 a shared data bus? A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that is its intention. Q. In a token-bus network, would you characterize the stations as being connected via the bus? A. Yes, I would. Q. Would you characterize the stations as being directly connected via the bus? 	4 5 7 8 9 10 11 12 13 14	<pre>structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example. Q. Can you refer to Paragraph 113 of your declaration.</pre>
4 5 7 8 9 10 11 12 13 14 15	 a shared data bus? A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that is its intention. Q. In a token-bus network, would you characterize the stations as being connected via the bus? A. Yes, I would. Q. Would you characterize the stations as being directly connected via the bus? A. So, to be clear, in regards to the 	4 5 7 8 9 10 11 12 13 14 15	<pre>structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example. Q. Can you refer to Paragraph 113 of your declaration. (Witness complies.) A. Yes. Q. Will you please explain what you mean by I'm sorry, what is meant by "access control" in your first citation? A. So this is referring to Rufino,</pre>
4 5 7 8 9 10 11 12 13 14 15 16	 a shared data bus? A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that is its intention. Q. In a token-bus network, would you characterize the stations as being connected via the bus? A. Yes, I would. Q. Would you characterize the stations as being directly connected via the bus? A. So, to be clear, in regards to the footnote that we discussed previously, we talked 	4 5 7 8 9 10 11 12 13 14 15 16	<pre>structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example. Q. Can you refer to Paragraph 113 of your declaration. (Witness complies.) A. Yes. Q. Will you please explain what you mean by I'm sorry, what is meant by "access control" in your first citation? A. So this is referring to Rufino, Page 959, Column 2, Paragraph 1. Rufino is the</pre>
4 5 6 7 8 9 10 11 12 13 14 15 16 17	 a shared data bus? A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that is its intention. Q. In a token-bus network, would you characterize the stations as being connected via the bus? A. Yes, I would. Q. Would you characterize the stations as being directly connected via the bus? A. So, to be clear, in regards to the footnote that we discussed previously, we talked about direct connections. That was in sort of a 	4 5 6 7 8 9 10 11 12 13 14 15 16 17	<pre>structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example.</pre>
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 a shared data bus? A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that is its intention. Q. In a token-bus network, would you characterize the stations as being connected via the bus? A. Yes, I would. Q. Would you characterize the stations as being directly connected via the bus? A. So, to be clear, in regards to the footnote that we discussed previously, we talked about direct connections. That was in sort of a graph theoretic context about, talking about which nodes are connected by an edge. You've now asked me about whether nodes in the token-bus network are directly connected. There isn't really a graph yet, if we're just talking about the bus. The bus does allow any two nodes to 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<pre>structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example.</pre>
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 a shared data bus? A. A token-bus network uses a token to regulate traffic on a shared data bus? Yes, that is its intention. Q. In a token-bus network, would you characterize the stations as being connected via the bus? A. Yes, I would. Q. Would you characterize the stations as being directly connected via the bus? A. So, to be clear, in regards to the footnote that we discussed previously, we talked about direct connections. That was in sort of a graph theoretic context about, talking about which nodes are connected by an edge. You've now asked me about whether nodes in the token-bus network are directly connected. There isn't really a graph yet, if we're just talking about the bus. 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	<pre>structures that are used. A ring is a popular shape for a bus, because it allows a failure to occur without disrupting communication over the bus, for example.</pre>

Patent Owner Acceleration Bay, LLC - Ex. 2010, p. 17

1 What he's going to be describing would work 1 to tell them who their new successor should 2 over any such broadcast medium. But, in any 3 case, access to the shared broadcast medium for 3 case, access to the shared broadcast medium for 4 Right. 5 which currently holds the token. 6 In other words, only the token holder is 7 6 In other words, only the token holder is 7 physical bus. 6 0. Is the "who follows" query sent or 7 permitted to use that medium in order to	the ty mber
3 case, access to the shared broadcast medium for 4 data transmission is only granted to the station 5 which currently holds the token. 6 In other words, only the token holder is 7 permitted to use that medium in order to 8 broadcast. 9 Q. Is it your opinion that Rufino 10 discloses a broadcast channel? 11 A. Yes, it is. 12 Q. And what in Rufino would correspond to 13 the claimed broadcast channel? 14 A. Well, so actually Rufino discloses two 15 broadcast channel. 16 is a broadcast channel, and the token-bus itself 17 is another broadcast channel, which overlays the 18 underlying physical bus. 19 Q. Can you turn to Paragraph 118, please. 20 A. Yes. 21 Q. You state that, "Rufino discloses a 23 A. Yes. 24 Q. You state that, "Rufino discloses a 25 station broadcast channel to find a third 20 Q. You state that, "Rufino discloses a 3 A. Wels.	the Ty mber
4 data transmission is only granted to the station 4 number of the messages described in Rufino a 5 which currently holds the token. 5 broadcast on the physical bus. 6 In other words, only the token holder is 7 physical bus? 7 permitted to use that medium in order to 7 physical bus? 8 broadcast. 9 0. Is the your opinion that Rufino 10 discloses a broadcast channel? 7 11 A. Yes, it is. 10 Q. In a token-bus network, does every 12 Q. And what in Rufino would correspond to 11 station that is connected to the bus? receiver 14 A. Well, so actually Rufino discloses two 14 theoretical operation. Rufino describes a r 15 broadcast channel, and the token-bus itself 14 happen. For example, a temporary partition. 17 Q. Can you turn to Paragraph 118, please. 18 difference between a token-bus network and a virtual 18 underlying physical bus. 12 Nell, in a sense as described in 19 Q. Can you turn to Paragraph 118, please. 12 Nell, in a sense as described in 24 Q. You state that, "Rufino di	the Ty mber
5 which currently holds the token. 5 broadcast on the physical bus. 6 In other words, only the token holder is 9 7 permitted to use that medium in order to 6 8 broadcast. 9 9 Q. Is it your opinion that Rufino 9 10 discloses a broadcast channel? 10 11 A. Yes, it is. 10 12 Q. And what in Rufino would correspond to 11 13 the claimed broadcast channel? 11 14 A. Well, so actually Rufino discloses two 15 15 broadcast channel, and the token-bus itself 16 16 is a broadcast channel, and the token-bus itself 16 17 is another broadcast channel, which overlays the 18 18 underlying physical bus. 17 19 Q. Can you turn to Paragraph 118, please. 19 20 A. Of my declaration? 20 21 Q. You state that, "Rufino discloses a 20 22 (Witness complies.) 21 23 A. Yes. 22 24 Q. You state	the Ty mber
6 In other words, only the token holder is 6 Q. Is the "who follows" query sent or 7 permitted to use that medium in order to 7 physical bus? 8 broadcast. 9 Q. Is it your opinon that Rufino 9 that is transmitted on the physical bus. 9 Q. And what in Rufino would correspond to 0 In a token-bus network, does every 11 A. Yes, it is. 10 Q. In a token-bus network, does every 12 Q. And what in Rufino would correspond to 12 every message that is connected to the bus receive 13 the claimed broadcast channel? 13 A. Well, that's the ideal preferred 14 A. Well, so actually Rufino discloses two 14 theoretical operation. Rufino describes a r 15 broadcast channel, which overlays the 16 a producast channel, which overlays the 18 underlying physical bus. 17 Q. Do you understand there to be a 18 underlying physical bus. 19 Q. Can you turn to Paragraph 118, please. 12 Q. Of your declaration. 20 A. Well, in a sense as described in 12 Q. You state that, "Rufino discloses a 23 a physical token ring	TY mber
7 permitted to use that medium in order to 7 physical bus? 8 broadcast. 8 A. Yes. There is a "who follows" que 9 Q. Is it your opinion that Rufino 9 that is transmitted on the physical bus. 10 discloses a broadcast channel?	TY mber
8 Divodcast. 8 A. Yes. There is a "who follows" que 9 Q. Is it your opinion that Rufino 9 that is transmitted on the physical bus. 10 discloses a broadcast channel? 10 Q. In a token-bus network, does every 11 A. Yes, it is. 10 Q. In a token-bus network, does every 12 Q. And what in Rufino would correspond to 11 station that is connected to the bus receive 12 Q. And what in Rufino discloses two 14 heoretical operation. Rufino describes a r 15 broadcast channel, and the token-bus itself 16 is a broadcast channel, which overlays the 18 underlying physical bus. 17 Q. Do you understand there to be a 19 Q. Can you turn to Paragraph 118, please. 18 21 Q. Of your declaration. 20 22 (Witness complies.) 21 23 A. Yes. Neell, in a sense as described in 23 A. Yes. 22 24 Q. You state that, "Rufino discloses a 24 25 tation broadcast channel? 23 3 A. Mm-hmm. 3 4 <	mber
9 Q. Is it your opinion that Rufino 10 discloses a broadcast channel? 11 A. Yes, it is. 12 Q. And what in Rufino would correspond to 13 the claimed broadcast channel? 14 A. Well, so actually Rufino discloses two 15 broadcast channel. and the token-bus itself 16 is a broadcast channel, and the token-bus itself 17 is another broadcast channel, which overlays the 18 underlying physical bus. 19 Q. Can you turn to Paragraph 118, please. 20 A. Yes. 21 Q. Of your declaration? 22 (Witness complies.) 23 A. Yes. 24 Q. You state that, "Rufino discloses a 25 station broadcasts a connection port search 24 Q. You state that, "Rufino disclosed that a 25 station broadcasts a connection port search 26 Marchmm. 27 Marchmm. 3 Q. Char you give me some distinctions 24 Q. You state that, "Rufino disclosed that a 25 station broadcasts a connection port search	mber
10 discloses a broadcast channel? 10 Q. In a token-bus network, does every 11 A. Yes, it is. 11 station that is connected to the bus receive 12 Q. And what in Rufino would correspond to 12 every message that is sent on the bus? 13 the claimed broadcast channel? 13 A. Well, that's the ideal preferred 14 A. Well, so actually Rufino discloses two 14 theoretical operation. Rufino describes a rot of circumstances in which, you know, that me 16 is a broadcast channel, and the token-bus itself is another broadcast channel, which overlays the 16 happen. For example, a temporary partition. 16 underlying physical bus. 17 Q. Do you understand there to be a 18 underlying physical bus. 19 token ring network? 20 11 Q. Of your declaration. 21 Rufino, a token-bus network and a origon of an azy or a physical bus. 11 12 Q. You state that, "Rufino discloses a 23 12 well, as weive a distinction be 24 Q. You state that, "Rufino disclosed that a 5 station broadcast channel to find a third 2 of understands that they're closely related. 25 M. Mm-hmm	mber
11A. Yes, it is.11station that is connected to the bus received12Q. And what in Rufino would correspond to12every message that is sent on the bus?13the claimed broadcast channel?14A. Well, so actually Rufino discloses two1414A. Well, so actually Rufino discloses two14theoretical operation. Rufino describes a r15broadcast channel, and the token-bus itself15of circumstances in which, you know, that me16is a broadcast channel, which overlays the16happen. For example, a temporary partition.17is another broadcast channel, which overlays the17Q. Do you understand there to be a18underlying physical bus.17Q. Do you understand there to be a19Q. Can you turn to Paragraph 118, please.18difference between a token-bus network?20A. Of my declaration.20A. Well, in a sense as described in21Q. Of your declaration.20A. Well, in a sense as described in22(Witness complies.)20A. Well, in a sense as described in23A. Yes.20A. Well, in a sense as described in24Q. You state that, "Rufino discloses a25station broadcast channel to find a third2computer." Is that correct?24it's sort of a person of ordinary skill s3A. Mm-hmm.2Q. Can you give me some distinctions4Q. Where in Rufino is it disclosed that a3Q. Can you give me some distinctions5station broad	mber
12Q. And what in Rufino would correspond to13the claimed broadcast channel?14A. Well, so actually Rufino discloses two15broadcast channels. The underlying physical bus16is a broadcast channel, and the token-bus itself17is another broadcast channel, which overlays the18underlying physical bus.19Q. Can you turn to Paragraph 118, please.10Q. Of my declaration?20A. Of my declaration.21Q. Of your declaration.22(Witness complies.)23A. Yes.24Q. You state that, "Rufino discloses a25station broadcast channel to find a third2computer." Is that correct?3A. Mm-hmm.4Q. Where in Rufino is it disclosed that a5station broadcasts a connection port search6Message on a broadcast channel?7A. I'm sorry. Could we repeat the8question.9Q. Where in Rufino is it disclosed that a9Q. Where in Ruf	
13the claimed broadcast channel?13A. Well, that's the ideal preferred14A. Well, so actually Rufino discloses two14theoretical operation. Rufino describes a r15broadcast channel, and the token-bus itself15of circumstances in which, you know, that me16is a broadcast channel, and the token-bus itself16happen. For example, a temporary partition.17is another broadcast channel, which overlays the16happen. For example, a temporary partition.18underlying physical bus.17Q. Do you understand there to be a19Q. Can you turn to Paragraph 118, please.18difference between a token-bus network and a20A. Of my declaration.20A. Well, in a sense as described in21Q. Of your declaration.21Rufino, a token-bus network is a sort of an22(Witness complies.)23bus. So, yes, one can draw a distinction be23A. Yes.23bus. So, yes, one can draw a distinction be24Q. You state that, "Rufino discloses a25ring network, but they are both token rings,2computer." Is that correct?2a physical token ring network and a token ring3A. Mm-hmm.Q. Can you give me some distinctions4Q. Where in Rufino is it disclosed that a55network?6A. Well, as we've been discussing, a7A. I'm sorry. Could we repeat the8ring structure over a physical bus, which, a9Q. Where in Rufino is it disclosed that a9 <t< td=""><td></td></t<>	
14A. Well, so actually Rufino discloses two14theoretical operation. Rufino describes a r15broadcast channels. The underlying physical bus14theoretical operation. Rufino describes a r16is a broadcast channel, and the token-bus itself15of circumstances in which, you know, that me17is another broadcast channel, which overlays the16happen. For example, a temporary partition.18underlying physical bus.17Q. Do you understand there to be a19Q. Can you turn to Paragraph 118, please.18difference between a token-bus network and a20A. Of my declaration.20A. Well, in a sense as described in21Q. Of your declaration.20A. Well, in a sense as described in22(Witness complies.)20A. Well, in a sense as described in23A. Yes.20A. Well, in a sense as described in24Q. You state that, "Rufino discloses a23bus. So, yes, one can draw a distinction be24Q. You state that, "Rufino discloses a24a physical token ring network, but they are both token rings,25station broadcasts a connection port search11it's sort of a person of ordinary skill s3A. Mm-hmm.2Q. Can you give me some distinctions4Q. Where in Rufino is it disclosed that a5station broadcast channel?7A. I'm sorry. Could we repeat the3Q. Can you give me some distinction, a8question.9Q. Where in Rufino is it disclosed that a <t< td=""><td></td></t<>	
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16is a broadcast channel, and the token-bus itself16happen. For example, a temporary partition.17is another broadcast channel, which overlays the17Q. Do you understand there to be a18underlying physical bus.17Q. Do you understand there to be a19Q. Can you turn to Paragraph 118, please.19token ring network?20A. Of my declaration?20A. Well, in a sense as described in21Q. Of your declaration.21Rufino, a token-bus network is a sort of an22(Witness complies.)23A. Yes.23A. Yes.23bus. So, yes, one can draw a distinction be24Q. You state that, "Rufino discloses a2525station broadcasts a connection port search21message on the broadcast channel to find a third22Q. Where in Rufino is it disclosed that a35station broadcasts a connection port search34Q. Where in Rufino is it disclosed that a45station broadcasts a connection port search36M. Well, as we've been discussing, a7A. I'm sorry. Could we repeat the8question.9Q. Where in Rufino is it disclosed that a9Q. Where in Rufino is it disclosed that a9<	/ not
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18 underlying physical bus. 18 difference between a token-bus network and a 19 Q. Can you turn to Paragraph 118, please. 19 token ring network? 20 A. Of my declaration? 20 A. Well, in a sense as described in 21 Q. Of your declaration. 20 A. Well, in a sense as described in 22 (Witness complies.) 22 overlay of a virtual token ring network onto 23 A. Yes. 23 bus. So, yes, one can draw a distinction be 24 Q. You state that, "Rufino discloses a 25 station broadcasts a connection port search 25 station broadcast channel to find a third 1 it's sort of a person of ordinary skill s 2 of message on the broadcast channel to find a third 2 of understands that they're closely related. 3 A. Mm-hmm. 3 Q. Can you give me some distinctions 4 Q. Where in Rufino is it disclosed that a 5 station broadcast channel? 5 question. 9 Q. Where in Rufino is it disclosed that a 7 8 question. 9 Q. Where in Rufino is it disclosed that a 9 6 A. Well	
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23 A. Yes. 24 Q. You state that, "Rufino discloses a 25 station broadcasts a connection port search 26 Page 67 1 message on the broadcast channel to find a third 2 computer." Is that correct? 3 A. Mm-hmm. 4 Q. Where in Rufino is it disclosed that a 5 station broadcasts a connection port search 6 message on a broadcast channel? 7 A. I'm sorry. Could we repeat the 8 question. 9 Q. Where in Rufino is it disclosed that a	an
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Page 67 1 message on the broadcast channel to find a third 1 it's sort of a person of ordinary skill a 2 computer." Is that correct? 2 of understands that they're closely related. 3 A. Mm-hmm. 2 of understands that they're closely related. 4 Q. Where in Rufino is it disclosed that a 4 between a token-bus network and a token ring 5 station broadcasts a connection port search 6 A. Well, as we've been discussing, a 7 A. I'm sorry. Could we repeat the 7 token-bus uses a logical ring; that is, a vi 8 question. 9 Q. Where in Rufino is it disclosed that a 9	oken
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7 A. I'm sorry. Could we repeat the 7 token-bus uses a logical ring; that is, a vi 8 question. 8 ring structure over a physical bus, which, a 9 Q. Where in Rufino is it disclosed that a 9 discussed before, could be tree shaped, a topical could be tree shaped.	
8 question. 8 ring structure over a physical bus, which, a 9 Q. Where in Rufino is it disclosed that a 9 discussed before, could be tree shaped, a to	
9 Q. Where in Rufino is it disclosed that a 9 discussed before, could be tree shaped, a to	
110 state su busselseste a semastice sect securit 110 since as subsidirally astrolly The set su	
10 station broadcasts a connection port search 10 ring, as originally actually, I'm not sur	
11 message on a broadcast channel? 11 what the origination of token rings were, bu	
12 A. Well, so, for example, on Page 963, 12 certainly one also talks about physical toke	
13 first column, first paragraph, Rufino describes a 13 ring networks, where that ring is hardware,	Ł
14 process for handling the absence of a successor. 14 piece of hardware, a bunch of nodes that are	
15 After the token pass period has elapsed, a 15 connected by wires that form a physical ring	
16 recovery strategy is tried. This includes the 16 Q. Are you familiar with the IEEE 802	
17 repetition of token transmission, followed by a 17 specifications?	
18 variant of the solicit successor procedure. 18 A. IEEE 802. It doesn't ring a bell	
19 During this "who follows" query, the current 19 number. If you want to if you can tell m	÷
20 token holder waits for a "set successor" frame 20 sort of more about the title or what is bein	J
21 until the end of a three-slot time period. 21 specified, I can tell you whether I am famil	
22 So what is being described here is a is 22 with that.	.ar
23 the node that does not have that can't find 23 Q. Are you familiar with the IEEE 802	lar
24 its successor is awaiting a broadcast of a "set 24 standard that's used for token-bus networks?	
25 successor" message from their successor in order 25 A. I haven't read it in I haven't	
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1	Page 70 it. I know that the IEEE does standardize a	1	Page 72 Grid Network" marked Exhibit 6.)
2	variety of networks. The 802.11, for example, is	2	BY MR. PRICE:
3	a standardization of various wireless network	3	Q. You were just handed an article titled
4	protocols.	4	"The Token Grid Network" by Terrence Todd.
5	Q. So we were talking about token ring	5	Do you recognize this document?
6	networks. Would you characterize a token ring	6	A. Yes, I do.
7	network as a local area network formed in a ring	7	0. It was submitted as Exhibit No. 1019 in
8	topology that uses token passing as a means of	8	this case. Is that correct?
9	regulating traffic?	9	A. Yes. That's my understanding.
10	A. That certainly sounds like a token	10	Q. Are you familiar with the subject
11	like a token ring network. I'm not sure if it is	11	matter of this reference?
12	the only possible token ring network.	12	A. Yes, I am.
13	Q. So but in token ring networks, the	13	Q. And can you tell me your understanding
14	stations are arranged in a physical ring?	14	of what this reference discloses?
15	A. Well, in a physical token ring, the	15	A. Well, this reference discloses a token
16	stations are arranged in a physical ring. As	16	grid network, which is a network that draws
17	we've been discussing around Rufino, one can also	17	heavily from token ring ideas, but shows how
18	talk about a logical token ring, in which case	18	those ideas can be applied somewhat more
19	the stations need not be arranged in a physical	19	generally in order to improve the throughput and
20	ring.	20	reliability of the token ring.
20 21	0. All right. So I think when we were	20	Q. Can you please refer to Page 1,
22	talking about Rufino, we were referring to a	22	Column 2.
22	token-bus network. Is that correct?	23	A. Yes.
23 24	A. Yes. In which a logical ring is	23	Q. The first full paragraph.
24	established over the bus.	24	A. Mm-hmm.
20	establibiled over the bus.	25	
	Page 71		Page 73
1	Q. So stations in a token-bus network are	1	Q. Based on this passage, do you
2	connected to a shared bus, and stations in a	2	understand Todd's token grid network to be an
3	token ring network are connected to each other in	3	extension of a token ring network or a token-bus
4	a circular configuration. Is that correct?	4	network?
5	A. Well, again, if you refer to a "token	5	A. Well, so Todd states that the token
б	ring," you are referring to a ring-shaped	6	grid is a multidimensional extension of the token
7	network. However, that ring might be a physical	7	ring. But, as we've been discussing, the ideas
8	ring or it might be a logical virtual overlay	8	of a token ring can be instantiated in either a
9	ring. And one can also talk about physical buses	9	physical ring or a logical ring, as in the
10	or logical buses; i.e., broadcast channels.	10	token-bus described by Rufino. And as a person
11	MR. PRICE: All right. I think it's a	11	of ordinary skill in the art would have been
12	good time to break for lunch.	12	aware of this of this of these multiple
13	(Discussion off the record.)	13	possibilities, I would say that the teachings of
14	THE VIDEOGRAPHER: The time now is	14	Todd fit well with either case.
15	12:19 p.m. We are going off the record, and this	15	Q. Do you see the reference No. 2 in the
16	will end Disk 2 of today's deposition. We are	16	second sentence of that paragraph?
17	off the record.	17	A. Yes, I do.
18	(Lunch recess was taken.)	18	Q. That reference refers to the IEEE 802.5
19	THE VIDEOGRAPHER: The time now is	19	standard for token ring networks. Is that
20	1:28 p.m. We're coming back on the record. Now	20	correct?
21	begins Disk 3 of today's deposition with	21	A. Yes, it does.
22	Dr. David Karger. We're on the record.	22	Q. Is there any reference to the 802.4
	MR. PRICE: Dr. Karger, the court	23	IEEE standard for token-bus networks?
23		1 20	
23 24		2.4	A. I mean, I haven't read all 12
23 24 25	reporter is going to hand you Exhibit No. 6. (Article entitled "The Token	24 25	A. I mean, I haven't read all 12 references in detail to see if any of them

1	Page 74 discuss token buses. I don't see a reference to	1	A. Yes.		
2	the 802.4 standard explicitly listed among the	2	Q. What is a MAC address?		
3	references.	3	A. Well, the most common usage is to refer		
4	0. Is the procedure for adding stations to	4	· · · · , · · · · · · · · · · · · · · ·		
5	a token ring network different than adding	5	which identifies a particular device so that you		
6	stations to a token-bus network?	6	can address messages to that device or see in		
7	A. Well, if by a token ring network you	7	a see in a packet header which device has		
8	mean a physical token ring, then the procedure	8	is the originator of a message. MAC stands for		
9	for adding stations to a physical token ring	9	media access controller, I think.		
10	would involve making physical changes to the	10	Q. Is it common to address nodes of a		
11	token ring.	11	local area network using the MAC address?		
12	On the other hand, in the case of a token	12	A. That certainly is one way to address		
13	bus, you might physically add a station to the	13	them. For example, in Ethernet, every every		
14	bus in order to make it part of the virtual token	14	computer on a local area, on an Ethernet comes		
15	ring, the overlay token ring that you're creating	15	with a MAC address. And those MAC addresses are		
16	on top of that bus. Or you might add it	16	used to direct information to a target recipient.		
17	logically; that is, there might be a station	17	0. How does a MAC address differ from an		
18	which was previously physically connected to the	18	IP address?		
19	bus which you, at some point, choose to add to	19	A. Well, both are addresses. They serve		
20	the logical or to a logical overlay that you are	20	to identify a particular endpoint for		
21	running on top of that bus.	21	communication. MAC addresses in Ethernet are		
22	Q. When you add a station to a token ring	22	generally what are understood to be at the link		
23	network and I'm talking about a physical token	23	layer. They're physical. They correspond to a		
24	ring network is it required that successive	24	physical network and are addresses that can be		
25	stations are directly connected to one another	25	accessed at the link layer, whereas IP addresses		
	Page 75		Page 77		
1	using the physical connections such that the	1	are network-layer addresses and can be used to		
2	circle is maintained?	2	address devices that are on a different are on		
3	A. Is it required that	3	a different network that are connected through		
4	I mean, in a physical token ring, all the	4	the internet and can be used to deliver to		
5	all of the stations are physically connected	5	deliver packets to these remote devices which are		
6	through that token ring structure. And if I add	6	not on the same local area network. But they're		
7	a new node to the token ring, then it will become	7	both addresses.		
8	physically connected as well.	8	I mean, addressing is a well-understood		
9	Q. Is the procedure for recovering from a	9	concept in networking. And, as we've discussed		
10	failed station different in token-bus networks	10	in other depositions, an address the role of		
11 12	and token ring networks? A. Well, there are a number of different	11 12	an address is to serve as an endpoint for communication, and this happens at many different		
13	recovery procedures that one could imagine.	13	layers of the networking stack.		
14	Rufino describes a particular recovery mechanism	14	And can with overlay networks, can often		
15	for the token-bus network. Todd describes	15	-		
15	another recovery mechanism which involves sort of	15	be happening at multiple layers of the network stack at the same time.		
17	shortcutting a failed station in order to recover	17	Q. Rufino discloses how stations are added		
18	from that failure.	18	to a token-bus network. Correct?		
19	Those are two different recovery methods. I	19	A. Rufino discloses a way to add stations		
20	don't know that I would say that the that they	20	to a token-bus network. Yes.		
20	have to be different. I mean, there could be	20	Q. And can you describe that procedure?		
21	recovery methods that you could apply in both	21	 And can you describe that procedure; A. So on Page 960 of the Rufino reference, 		
23	cases.	22	you can see a section titled "Addition of New		
23	Q. Are you familiar with the term "MAC	23	Stations." In that section, Rufino describes a		
24	address"?	24	procedure, a "solicit successor" procedure,		
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1	Page 78 through which a node which holds the token is	1	Page 80 broadcast channel underlying things, then it			
2	able to announce that it is prepared to be	2	would not be necessary for a node wishing to join			
3	notified of a new node that wishes to join the	3	to identify a particular type or channel number.			
4	ring and become the successor of the current	4	On the other hand, this procedure could also			
5	token-holding node.		5 be used in settings where there are multiple			
6	He describes the entire process by which		6 logical broadcast channels, in which case it			
7	that solicitation for a successor is announced,		 would be necessary to identify which one you 			
8	the stations wishing to join respond, what	8	going to be joining through some type or number			
9	happens when there are no stations responding,	9	identifier for the channel.			
	one station, more than one station simultaneously	10				
10	· · · · · · · · · · · · · · · · · · ·	11	Q. But is it fair to say that it wouldn't			
11	trying to join.		have to identify the physical bus by a channel			
12	Q. What actions does the station that	12	type or channel instance?			
13	wants to become a ring member take in order to	13	A. Well, you could certainly have a node			
14	join the ring network?	14	connected to more than one physical bus, in which			
15	A. Well, in this in this section, the	15	case it might be necessary to identify the one			
16	successor solicitation procedure is described as	16	that you wanted to work with.			
17	having the token-holding process broadcast a	17	Q. Dr. Karger, what did you do to prepare			
18	message saying that it is prepared to receive a	18	for this deposition today?			
19	successor, and it then describes how a node that	19	A. I did a lot of rereading of my			
20	may want to join the network compares its own	20	declaration and the various pieces of prior art			
21	address to the address of the token holder and	21	that are relevant to it. I thought about the			
22	the successor of the token holder. And if the	22 arguments that were made and made sure that				
23	joining node identifies its address as being	23	were clear in my mind again.			
24	between the token holder and their successor, it	24	I reviewed the patents that are at issue. I			
25	responds with a "set successor" message which	25	think that pretty much covers it.			
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1	notifies the token holder that it is prepared to	1	Q. Which attorneys did you meet with in			
2	become the new successor of the token holder.	2	preparation for your deposition today?			
3	Q. In order to receive the "solicit	3	A. Well, I met with several of the			
4	successor" frame, is it required that a station	4	attorneys who have been present at the			
5	wanting to become a ring member is already	5	depositions, David Lin, Mike. Is there anybody			
б	connected to the physical bus?	6	else? Not that I recall for preparing for this			
7	A. Well, so as we discussed before, what	7	deposition.			
8	Rufino fundamentally requires is some kind of	8	Q. Is there any reason, physical, mental			
8 9	Rufino fundamentally requires is some kind of underlying broadcast channel. And a physical bus	8				
	underlying broadcast channel. And a physical bus		or emotional, that prevented you from giving your			
9		9				
9 10	underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast	9 10	or emotional, that prevented you from giving your best and most accurate testimony today? A. No.			
9 10 11 12	underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel. The node that wishes to join needs to be	9 10 11 12	or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or			
9 10 11	underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel.	9 10 11	or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or drugs that made it difficult for you to			
9 10 11 12 13 14	underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel. The node that wishes to join needs to be connected to that underlying broadcast channel in order to receive the "solicit successor" message.	9 10 11 12 13 14	or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or drugs that made it difficult for you to understand and truthfully answer my questions?			
9 10 11 12 13 14 15	underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel. The node that wishes to join needs to be connected to that underlying broadcast channel in order to receive the "solicit successor" message. But, again, a person of ordinary skill would	9 10 11 12 13	<pre>or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or drugs that made it difficult for you to understand and truthfully answer my questions? A. I'm not.</pre>			
9 10 11 12 13 14 15 16	underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel. The node that wishes to join needs to be connected to that underlying broadcast channel in order to receive the "solicit successor" message. But, again, a person of ordinary skill would understand that this broadcast channel could be	9 10 11 12 13 14 15 16	<pre>or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or drugs that made it difficult for you to understand and truthfully answer my questions? A. I'm not. Q. Are there any answers to my questions</pre>			
9 10 11 12 13 14 15 16 17	underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel. The node that wishes to join needs to be connected to that underlying broadcast channel in order to receive the "solicit successor" message. But, again, a person of ordinary skill would understand that this broadcast channel could be implemented in a variety of ways, either as a	9 10 11 12 13 14 15 16 17	<pre>or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or drugs that made it difficult for you to understand and truthfully answer my questions? A. I'm not. Q. Are there any answers to my questions that you wish to change before we close?</pre>			
9 10 11 12 13 14 15 16 17 18	underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel. The node that wishes to join needs to be connected to that underlying broadcast channel in order to receive the "solicit successor" message. But, again, a person of ordinary skill would understand that this broadcast channel could be implemented in a variety of ways, either as a physical bus or as a some sort of logical	9 10 11 12 13 14 15 16 17 18	<pre>or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or drugs that made it difficult for you to understand and truthfully answer my questions? A. I'm not. Q. Are there any answers to my questions that you wish to change before we close? A. No.</pre>			
9 10 11 12 13 14 15 16 17 18 19	underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel. The node that wishes to join needs to be connected to that underlying broadcast channel in order to receive the "solicit successor" message. But, again, a person of ordinary skill would understand that this broadcast channel could be implemented in a variety of ways, either as a physical bus or as a some sort of logical broadcast channel.	9 10 11 12 13 14 15 16 17 18 19	<pre>or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or drugs that made it difficult for you to understand and truthfully answer my questions? A. I'm not. Q. Are there any answers to my questions that you wish to change before we close? A. No. Q. Is there any information that I asked</pre>			
9 10 11 12 13 14 15 16 17 18 19 20	underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel. The node that wishes to join needs to be connected to that underlying broadcast channel in order to receive the "solicit successor" message. But, again, a person of ordinary skill would understand that this broadcast channel could be implemented in a variety of ways, either as a physical bus or as a some sort of logical broadcast channel. Q. So it's not required for a station that	9 10 11 12 13 14 15 16 17 18 19 20	<pre>or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or drugs that made it difficult for you to understand and truthfully answer my questions? A. I'm not. Q. Are there any answers to my questions that you wish to change before we close? A. No. Q. Is there any information that I asked you about that you can remember now that you</pre>			
9 10 11 12 13 14 15 16 17 18 19 20 21	underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel. The node that wishes to join needs to be connected to that underlying broadcast channel in order to receive the "solicit successor" message. But, again, a person of ordinary skill would understand that this broadcast channel could be implemented in a variety of ways, either as a physical bus or as a some sort of logical broadcast channel. Q. So it's not required for a station that wants to join to identify a channel type or	9 10 11 12 13 14 15 16 17 18 19 20 21	<pre>or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or drugs that made it difficult for you to understand and truthfully answer my questions? A. I'm not. Q. Are there any answers to my questions that you wish to change before we close? A. No. Q. Is there any information that I asked you about that you can remember now that you didn't recall when I asked the question before?</pre>			
9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel. The node that wishes to join needs to be connected to that underlying broadcast channel in order to receive the "solicit successor" message. But, again, a person of ordinary skill would understand that this broadcast channel could be implemented in a variety of ways, either as a physical bus or as a some sort of logical broadcast channel. Q. So it's not required for a station that wants to join to identify a channel type or instance that identifies the physical bus or the</pre>	9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or drugs that made it difficult for you to understand and truthfully answer my questions? A. I'm not. Q. Are there any answers to my questions that you wish to change before we close? A. No. Q. Is there any information that I asked you about that you can remember now that you didn't recall when I asked the question before? A. No.</pre>			
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<pre>underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel. The node that wishes to join needs to be connected to that underlying broadcast channel in order to receive the "solicit successor" message. But, again, a person of ordinary skill would understand that this broadcast channel could be implemented in a variety of ways, either as a physical bus or as a some sort of logical broadcast channel. Q. So it's not required for a station that wants to join to identify a channel type or instance that identifies the physical bus or the logical ring?</pre>	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<pre>or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or drugs that made it difficult for you to understand and truthfully answer my questions? A. I'm not. Q. Are there any answers to my questions that you wish to change before we close? A. No. Q. Is there any information that I asked you about that you can remember now that you didn't recall when I asked the question before? A. No. Q. Is there anything else you'd like to</pre>			
9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>underlying broadcast channel. And a physical bus certainly serves as an underlying broadcast channel. The node that wishes to join needs to be connected to that underlying broadcast channel in order to receive the "solicit successor" message. But, again, a person of ordinary skill would understand that this broadcast channel could be implemented in a variety of ways, either as a physical bus or as a some sort of logical broadcast channel. Q. So it's not required for a station that wants to join to identify a channel type or instance that identifies the physical bus or the</pre>	9 10 11 12 13 14 15 16 17 18 19 20 21 22	<pre>or emotional, that prevented you from giving your best and most accurate testimony today? A. No. Q. Are you on any type of medication or drugs that made it difficult for you to understand and truthfully answer my questions? A. I'm not. Q. Are there any answers to my questions that you wish to change before we close? A. No. Q. Is there any information that I asked you about that you can remember now that you didn't recall when I asked the question before? A. No.</pre>			

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25	July 16, 2021	
24	My Commission Expires:	
23	Notary Public	
	JANET M. SAMBATARO	
22	0	
21	Junes M. Sembertaro	
20	my hand this 30th day of November, 2016.	
19	IN WITNESS WHEREOF, I have hereunto set	
18	the outcome of this matter.	
17	marriage; and that I am in no way interested in	
16	to any parties to this action by blood or	
14	I further certify that I am not related	
14	requested.	
13	knowledge, skill and ability; that review was not	
12	taken in the foregoing matter, to the best of my	
11	true and accurate record of my stenotype notes	
10	duly sworn by me and that such testimony is a	
9	whose testimony is hereinbefore set forth, was	
8	THAT DAVID KARGER, Ph.D., the witness	
7	certify:	
6	the Commonwealth of Massachusetts do hereby	
5	Merit Reporter and a Notary Public within and for	
4	I, Janet M. Sambataro, a Registered	
3	SUFFOLK, SS.	
2	COMMONWEALTH OF MASSACHUSETTS	
1	CERTIFICATE Fage 05	
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9		
8	(Deposition concluded at 1:47 p.m.)	
7	with Dr. David Karger. We're off the record.	
6	today's deposition and closes out the deposition	
5	1:47 p.m. This brings us to the end of Disk 3 of	
	THE VIDEOGRAPHER: The time now is	
3	-	
3	questions.	
2	MR. MURRAY: Okay. I have no	
1	Page 82 MR. PRICE: We're done.	

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