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Transcript of Radostin Pachamanov, Ph.D.

Date: June 17, 2026

Case: Samsung Electronics Co., Ltd., et al. -v- Maxell, Ltd. (PTAB)

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Phone: 888.433.3767

Email: transcripts@planetdepos.com

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UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD

- - - - - x

SAMSUNG ELECTRONICS :
CO., LTD. and SAMSUNG :
ELECTRONICS AMERICA, INC., :
Petitioners, : Case No. IPR2025-01307
v. : U.S. Patent No.
MAXELL, LTD., : 11,026,088
Patent Owner. :

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Videotaped Deposition of
RADOSTIN PACHAMANOV, Ph.D.
Conducted Virtually
Wednesday, June 17, 2026
10 a.m. EDT

Job No.: 638160
Pages 1 - 181
Reported by: Debra A. Whitehead

1 Videotaped Deposition of RADOSTIN PACHAMANOV,
2 Ph.D., conducted virtually.
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5 Pursuant to notice, before Debra Ann Whitehead,
6 E-Notary Public in and for the Commonwealth of
7 Virginia.
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A P P E A R A N C E S

ON BEHALF OF PETITIONERS:

JAMES HEINTZ, ESQUIRE

DLA PIPER LLP (US)

One Fountain Square

11911 Freedom Drive, Suite 300

Reston, Virginia 20190-5602

(703) 773-4000

- and -

NICHOLAS PANNO, ESQUIRE

DLA PIPER LLP (US)

701 Fifth Avenue, Suite 6900

Seattle, Washington 98104-7044

(215) 656-3300

ON BEHALF OF PATENT OWNER:

MATTHEW A. STANFORD, ESQUIRE

MAYER BROWN

1999 K Street, NW

Washington, DC 20006

(202) 263-3124

A P P E A R A N C E S C O N T I N U E D

ALSO PRESENT:

ADAM NUDELMAN, A/V Technician

EMIL WHITE, Video Specialist

C O N T E N T S

EXAMINATION OF RADOSTIN PACHAMANOV, Ph.D.	PAGE
By Mr. Heintz	7
By Mr. Stanford	162
By Mr. Heintz	166

EXHIBITS MARKED IN TODAY'S SESSION

(Attached to the Transcript)

DEPOSITION EXHIBIT	PAGE
Exhibit 1047 Wikipedia, DLNA	64

EXHIBITS MARKED IN PRIOR SESSIONS

(Not Attached)

EXHIBIT	PAGE
Exhibit 1001	35
Exhibit 1004	27
Exhibit 2014	9

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

6

1	P R O C E E D I N G S	09:59:15
2	VIDEO SPECIALIST: Here begins Media	09:59:15
3	Number 1 in the videotaped deposition of Dr.	09:59:30
4	Radostin Pachamanov in the matter of Samsung	09:59:34
5	Electronics Company, LTD., et al., versus Maxell,	09:59:38
6	LTD., in the United States Patent and Trademark	09:59:43
7	Office. Case number is IPR2025-01317, 01315.	09:59:50
8	Today's date is June 17, 2026. The time	10:00:02
9	on the video monitor is 10 a.m. eastern standard.	10:00:06
10	The videographer today is Emil White, representing	10:00:09
11	Planet Depos, headquartered at 451 Hungerford	10:00:14
12	Drive, Suite 400, Rockville, Maryland, 20850. All	10:00:17
13	parties of this video deposition are attending	10:00:22
14	remotely.	10:00:24
15	Would counsel please voice-identify	10:00:29
16	themselves and state whom they represent.	10:00:30
17	MR. HEINTZ: Sure. James Heintz from DLA	10:00:30
18	Piper, representing the petitioners, the Samsung	10:00:33
19	parties. And just a correction for the record.	10:00:34
20	This is only a deposition relevant to	10:00:36
21	IPR2025-01307. It is not relevant to 01315.	10:00:43
22	With me today is Nicholas Panno, also of	10:00:48

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

7

1	DLA Piper, also representing the Samsung	10:00:51
2	petitioners.	10:00:54
3	MR. STANFORD: Thank you for that	10:00:56
4	clarification, Jim.	10:00:58
5	My name is Matthew Stanford. I represent	10:00:59
6	the patent owner Maxell. And yes, I agree with	10:01:02
7	Jim, this is -- this is only related to the	10:01:06
8	IPR2025-01307. Thank you.	10:01:08
9	VIDEO SPECIALIST: The court reporter	10:01:13
10	today is Debbie Whitehead, also representing	10:01:13
11	Planet Depos.	10:01:13
12	The witness may now be sworn, and then we	10:01:31
13	may proceed.	10:01:32
14	RADOSTIN PACHAMANOV, Ph.D.,	10:01:32
15	having been duly sworn, testified as follows:	10:01:36
16	EXAMINATION BY COUNSEL FOR PETITIONERS	10:01:36
17	BY MR. HEINTZ:	10:01:36
18	Q Good morning, Dr. Pachamanov. How are	10:01:37
19	you today?	10:01:38
20	A Good morning. I'm doing good. How are	10:01:39
21	you?	10:01:41
22	Q Fine, thank you, sir.	10:01:41

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

8

1	Sir, I know you've been deposed just a	10:01:42
2	few days ago, in fact, so I won't repeat all of	10:01:44
3	the instructions, but I'll repeat a few for	10:01:48
4	emphasis today if that's okay with you.	10:01:50
5	A Yes.	10:01:53
6	Q So one of the most important things, as	10:01:53
7	the reporter already mentioned, is that we should	10:01:55
8	not talk over each other. So I will try to ask a	10:01:57
9	question and then stop, give you a chance to	10:02:00
10	answer, and then ask my question when your answer	10:02:03
11	is complete.	10:02:07
12	And will you do the same for me with	10:02:10
13	respect to my questions?	10:02:11
14	A Understood, yes.	10:02:12
15	Q Okay. And I'll ask you, sir, if there's	10:02:13
16	a question that I ask that you don't understand,	10:02:16
17	please let me know and ask for clarification. If	10:02:18
18	you don't ask for a clarification, I think I'll	10:02:20
19	understand that you understand my question.	10:02:24
20	Is that okay with you?	10:02:26
21	A Yes, that's okay.	10:02:27
22	Q Sir, I've placed a number of documents	10:02:28

1	into the chat room, one of which is your	10:02:34
2	declaration in IPR2024-1307.	10:02:36
3	Would you open your declaration, please.	10:02:42
4	And that's marked as Exhibit 2014?	10:02:44
5	(Exhibit 2014, previously marked, not	10:02:44
6	attached.)	10:02:44
7	A Yes, I have it in front of me.	10:02:52
8	Q Okay. Is this your declaration in	10:02:54
9	IPR2025-1307?	10:02:58
10	A Yes, it seems like it's mine.	10:03:04
11	Q Okay. And if you turn to Page 72 of the	10:03:06
12	exhibit. And by 72 I'm talking about the numbers	10:03:11
13	in the lower right-hand corner of the document.	10:03:15
14	And just confirm that that's your signature next	10:03:21
15	to the dated April 8, 2026, notation?	10:03:24
16	A Yes, that's my signature. Yes.	10:03:28
17	Q All right. So in Exhibit 2014 I'll ask	10:03:29
18	you to turn to Page 17, which is Section 3 of your	10:03:33
19	declaration, entitled Understanding of Legal	10:03:43
20	Standards.	10:03:48
21	Do you have that, sir?	10:03:49
22	A Just a second. Seventeen, understanding	10:03:50

1	of -- sorry, we're talking about, again, the PDF	10:03:57
2	document Page 17. Right?	10:04:00
3	Q Yeah, as marked in the lower right-hand	10:04:02
4	corner. So I think it's native --	10:04:05
5	A Okay. Yeah. I saw it. Yeah. Okay.	10:04:08
6	Yes, I'm there.	10:04:10
7	Q So that section is entitled Understanding	10:04:11
8	of Legal Standards. Correct?	10:04:13
9	A Correct.	10:04:17
10	Q You're not a lawyer, and that's what it	10:04:17
11	says in Paragraph 15 on that page. Correct?	10:04:19
12	A Yes, I'm not a lawyer.	10:04:24
13	Q But nonetheless, you do have some	10:04:25
14	understanding of the legal standards that are	10:04:26
15	discussed in this Section 3 of your declaration.	10:04:29
16	Correct?	10:04:31
17	A That's correct, yes, some understandings	10:04:36
18	I have.	10:04:37
19	Q And from where did you get those	10:04:37
20	understandings, sir?	10:04:39
21	A This comes from my discussions with	10:04:40
22	counsel for Maxell.	10:04:44

1	Q	And that would be like Mr. Stanford on	10:04:45
2		today's call?	10:04:48
3	A	Yes.	10:04:49
4	Q	Who else have you spoken with to obtain	10:04:49
5		your understanding?	10:04:51
6	A	This is based on my experience working in	10:04:53
7		the -- in the area for the last, I don't know, 12,	10:04:56
8		13 years. But this particular writings here in	10:04:59
9		this part of the declaration are mostly based on	10:05:02
10		Mr. Stanford's input to me and the discussions we	10:05:06
11		had.	10:05:10
12	Q	Okay. Thank you.	10:05:10
13		Now I'd like you to turn to Page 19 of	10:05:12
14		Exhibit 2014. That's native Page 7.	10:05:18
15	A	Uh-huh.	10:05:21
16	Q	And there is a heading on that page that	10:05:21
17		reads, Presumption of Validity.	10:05:24
18		Do you see that?	10:05:26
19	A	Yes, I see it.	10:05:28
20	Q	Okay. In Paragraph 21 you say that you	10:05:29
21		understand that all patents enjoy a presumption of	10:05:32
22		validity. Correct?	10:05:36

1	A	Yes, I stated that.	10:05:37
2	Q	Is it your understanding that that	10:05:38
3		presumption applies in this IPR proceeding?	10:05:41
4	A	It is my understanding that if a patent	10:05:45
5		is granted, then it is assumed valid.	10:05:47
6	Q	Okay. And then in Paragraph 22, you	10:05:53
7		state, "For this reason, I understand that	10:05:57
8		petitioners' burden to show invalidity of the '088	10:06:00
9		patent's claims is a high one."	10:06:05
10		Do you see that?	10:06:07
11	A	I see it, yes.	10:06:08
12	Q	What do you mean --	10:06:09
13	MR. STANFORD:	I'm sorry. Just to jump	10:06:11
14		in really fast. I just want to make sure you're	10:06:12
15		aware. The copy you uploaded has highlighting in	10:06:15
16		it that it looks like you added. I just want to	10:06:18
17		make sure you meant to add a nonclean version of	10:06:20
18		the ...	10:06:23
19	MR. HEINTZ:	You know, I did mean to	10:06:24
20		upload a clean version. So I'm going to have to	10:06:29
21		download one now. If it's all right with	10:06:31
22		everybody we'll go off the record and do that and	10:06:34

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

13

1	come back on in a minute.	10:06:37
2	MR. STANFORD: No problem.	10:06:39
3	MR. HEINTZ: Thank you, Mr. Stanford.	10:06:40
4	VIDEO SPECIALIST: We are now going off	10:06:42
5	the video record. The time is 10:06 a.m.	10:06:43
6	(A recess was taken.)	10:06:47
7	VIDEO SPECIALIST: We are now back on the	10:08:15
8	video record. The time is 10:08.	10:08:22
9	MR. HEINTZ: I thank my counsel for	10:08:24
10	alerting me to the inadvertent discrepancy with	10:08:25
11	the exhibit. Let the record reflect that I've now	10:08:28
12	downloaded Exhibit 2014 from the PTAB's PTACTS	10:08:30
13	system, and placed Exhibit 2014 with that title in	10:08:37
14	the chat room.	10:08:42
15	BY MR. HEINTZ:	10:08:44
16	Q Dr. Pachamanov, would you please open the	10:08:44
17	file labeled EX 2014.PDF.	10:08:46
18	A Yes, I have it in front of me opened.	10:08:51
19	Q Okay. And this, again, is the same	10:08:53
20	declaration we were looking at earlier, this time	10:08:55
21	without highlighting. Correct?	10:08:57
22	A That's correct, yes.	10:08:59

1 Q Okay. So, sir, I will ask you to go 10:08:59
2 again to the page marked as Page 19 in the lower 10:09:02
3 right-hand corner, which is native Page 7 that has 10:09:08
4 the heading on it that reads, B, Presumption of 10:09:15
5 Validity. 10:09:21

6 A Yes, I'm there. 10:09:21

7 Q Okay. And I was asking you about 10:09:22
8 Paragraph 22. And in particular, your statement 10:09:24
9 that reads, "I understand that petitioners' burden 10:09:29
10 to show invalidity of the '088 patent's claims is 10:09:34
11 a high one." 10:09:39

12 And my question to you, sir, is, what do 10:09:41
13 you mean by "a high one" in that sentence? 10:09:43

14 A I mean that it's -- it's not suitable 10:09:47
15 show validity, and therefore there need to be 10:09:53
16 specific evidence and convincing evidence that 10:09:56
17 this -- this is -- this patent is really invalid. 10:10:02

18 So that's why I mean it is a high one, it 10:10:04
19 is not that easy to invalidate the patent. 10:10:07

20 Q Okay. 10:10:09

21 A Once it is granted. 10:10:10

22 Q Do you think it's -- that this high 10:10:11

1 burden you're referring to is equivalent to beyond 10:10:16
2 a reasonable doubt, like the standard that might 10:10:19
3 be part of a criminal trial? 10:10:21

4 A No, I'm not -- I'm not making these 10:10:23
5 assumptions. I'm just saying that once the patent 10:10:25
6 is granted -- I mean, that's what I meant. Once 10:10:28
7 the patent is granted, then it's not trivial to 10:10:31
8 invalidate it just by pointing to something. 10:10:36

9 You need -- you need to -- to have proper 10:10:38
10 evidence and examples that this was well known to 10:10:42
11 somebody in the art, person of ordinary skill in 10:10:45
12 the art. 10:10:49

13 Q Okay. Just so I'm understanding what you 10:10:49
14 mean by "a high one." If we were to do this 10:10:57
15 numerically, and let's say on a scale from 0 to 10:10:59
16 100, would a high one be something like 66 percent 10:11:03
17 or 75 percent? 10:11:07

18 Are you able to tell me? 10:11:11

19 A If I meant to put a percent there, I 10:11:12
20 would put a percent. I just meant -- I just meant 10:11:15
21 to say that a patent which is granted cannot be 10:11:18
22 just invalidated because somebody doesn't like the 10:11:21

1 patent. The patent is granted, it passed through
2 the rigorous examination process. There was an
3 examiner who reviewed prior art and identified the
4 issues. And if the examiner decided that this --
5 the patent office has decided that the patent can
6 be granted and it's valid, then the burden of
7 proof is on the petitioner, and the petitioner
8 should provide enough support for their petition
9 to invalidate the patent.

10:11:23
10:11:25
10:11:30
10:11:34
10:11:37
10:11:42
10:11:45
10:11:47
10:11:52

10 Q Okay.

10:11:54

11 A I can't put a number, if you -- to this.
12 I'm just saying that it's not -- it shouldn't be
13 straightforward.

10:11:55
10:11:59
10:12:02

14 Q It shouldn't be straightforward?

10:12:02

15 A It shouldn't be just pointing to -- to
16 the patent and just saying, This is invalid. So I
17 cannot put a number to this, but I'm saying that
18 there is a burden of proof, and that's on the
19 petitioners' side.

10:12:05
10:12:08
10:12:10
10:12:17
10:12:19

20 Q Okay. I think I heard you say at one
21 point something like you need clear evidence.

10:12:19
10:12:22

22 Did I understand you correctly?

10:12:26

1 A Yeah, you -- I may have said that, you 10:12:29
2 are getting the specific word that I said. It 10:12:34
3 needs strong evidence in support of the petition. 10:12:36

4 Q Okay. You said that you can't just point 10:12:38
5 to the patent and say that's invalid. That's not 10:12:42
6 what the petitioners have done here. Right? They 10:12:45
7 didn't just point to the patent and say it's 10:12:49
8 invalid; they pointed to prior art that they 10:12:51
9 allege invalidates the patent. Correct? 10:12:53

10 A That is correct. And that's what my 10:12:55
11 declaration is about, looking at the paragraph 10:12:57
12 identified, alleged parts identified by the 10:13:02
13 petitioner and analyzing this prior art in view of 10:13:05
14 the arguments and conclusions made by petitioners' 10:13:07
15 expert and the petition. 10:13:11

16 Q Okay. And is it your opinion that the 10:13:12
17 prior art identified in the petition and the 10:13:19
18 accompanying opinions from petitioners' expert, 10:13:24
19 Dr. Paradiso, do not meet this high burden? 10:13:28

20 A That's my opinion, yes. 10:13:32

21 Q Okay. But you can't give me any sense 10:13:33
22 for what a high burden means on any kind of 10:13:38

1	numerical scale?	10:13:41
2	A I cannot, really. Sitting right here, I	10:13:43
3	just tried to express that a granted patent is a	10:13:46
4	granted patent. So therefore, I would expect,	10:13:50
5	like, many strong references that's going to	10:13:56
6	disclose the teachings of the patent.	10:14:00
7	Q Okay. So you're talking here about a	10:14:02
8	presumption of validity. Is it your understanding	10:14:07
9	that this proceeding is concerned with	10:14:10
10	patentability rather than validity?	10:14:13
11	A Well, my understanding that this is an	10:14:18
12	IPR in which the patent validity is challenged,	10:14:19
13	that's my understanding.	10:14:23
14	Q Okay. But you don't think the	10:14:24
15	presumption of validity applies in this	10:14:31
16	proceeding?	10:14:33
17	A Under the statement that I -- I need to	10:14:34
18	make this statement: I'm not an attorney. So I'm	10:14:37
19	here to provide technical opinions. And what I	10:14:39
20	said in this section of my declaration is my	10:14:42
21	general understanding of the law.	10:14:46
22	And my understanding is that the	10:14:50

1 petitioner has challenged the validity of this 10:14:52
2 patent. And I responded with technical arguments 10:14:54
3 about that. 10:14:57

4 Q All right. 10:15:00

5 Let's turn to Paragraph 87 of your 10:15:01
6 declaration. Paragraph 87 appears on the page 10:15:05
7 that's marked -- starts on the page that's marked 10:15:13
8 41, which is the native Page 29. 10:15:20

9 A Yes, I'm there. 10:15:23

10 Q All right. So in the middle of Page 41, 10:15:24
11 there appears a heading, "The proper construction 10:15:29
12 of Claim Element 6B." 10:15:31

13 Do you see that? 10:15:34

14 A Yes, I see it. 10:15:35

15 Q All right. And in Paragraph 86 you set 10:15:36
16 forth your understanding of what the petitioner 10:15:39
17 says the correct construction of Element 6b is. 10:15:43

18 Correct? 10:15:46

19 A I'm saying that that's what the 10:15:48
20 petitioner asserts as correct construction from 10:15:50
21 their perspective, yes. 10:15:53

22 Q Okay. And then in Paragraph 87 you start 10:15:54

1	with the sentence, "In my opinion, no construction	10:16:00
2	is necessary for this claim element."	10:16:03
3	Correct?	10:16:05
4	A That's correct, that's what I say, yes.	10:16:08
5	Q In your Paragraph 87, you do not say	10:16:10
6	whether or not you agree or disagree with	10:16:14
7	petitioners' construction. Correct?	10:16:16
8	A That's correct. I'm just saying -- well,	10:16:20
9	it comprises more or less my disagreement with --	10:16:22
10	with the petitioners' proposed construction, just	10:16:25
11	because I'm saying that no construction is	10:16:30
12	necessary and the claim language is clear on its	10:16:32
13	face. So it has to be -- it doesn't have to be	10:16:34
14	construed in any way. So more or less it shows my	10:16:37
15	disagreement with the petitioners' construction,	10:16:40
16	even though I haven't cited directly here.	10:16:43
17	Q Well, you haven't said at all in your	10:16:46
18	declaration that you disagree with petitioners'	10:16:49
19	construction. All you have said is that you don't	10:16:53
20	think the claim needs to be construed, and you	10:16:55
21	only disagree with the petitioner so far as the	10:16:59
22	need for a construction is concerned. Correct?	10:17:02

1	A	I am saying here that in my opinion no	10:17:05
2		construction is necessary, which means that I	10:17:09
3		disagree with -- with the petitioner. And I'm	10:17:10
4		just saying that the term is clear on its face.	10:17:15
5	Q	Right. You haven't disagreed with the	10:17:21
6		petitioner as to what the petitioner says the term	10:17:23
7		means, though, in your declaration. Correct?	10:17:25
8	A	I haven't opined directly on this, even	10:17:30
9		though if I say that no construction is necessary,	10:17:32
10		this means that I -- I have a -- I don't think	10:17:35
11		that the petitioners' asserted claim construction	10:17:38
12		is relevant here.	10:17:43
13	Q	You don't think the petitioners' asserted	10:17:48
14		construction is relevant? Is that what you said?	10:17:51
15	A	That's what I said, yes.	10:17:53
16	Q	Okay. And it's not relevant because you	10:17:54
17		think it's not necessary. That's the only opinion	10:17:58
18		I see in your Paragraph 87, is that you disagree	10:18:00
19		with petitioner that any construction is needed,	10:18:04
20		because the term is clear. That's all you say in	10:18:07
21		Paragraph 87. Correct?	10:18:09
22	A	I'm saying in Paragraph 87 that no	10:18:12

1 construction is necessary; therefore, I consider 10:18:14
2 this claim element as clear, as it is. And 10:18:18
3 therefore, I consider petitioners' attempt to 10:18:22
4 provide claim construction here as unnecessary and 10:18:27
5 not -- not relevant to this particular thing. 10:18:31

6 So indirectly I disagree with the 10:18:34
7 petitioner on this. 10:18:38

8 Q Well, Dr. Pachamanov, I want to be very 10:18:39
9 clear here. You say you disagree with the 10:18:42
10 petitioner, but the only thing that you're 10:18:46
11 disagreeing with the petitioner is about the need 10:18:49
12 for a construction. You are not disagreeing in 10:18:51
13 your declaration that the petitioners' 10:18:54
14 construction as stated is correct. Right, 10:18:57
15 Dr. Pachamanov? 10:19:01

16 A So we can talk about this from the 10:19:03
17 perspective of what I have put there in the 10:19:04
18 declaration or what I think about it and what I 10:19:07
19 tried to say in the declaration. Which one do you 10:19:09
20 prefer? 10:19:12

21 Q I want to talk about what you said in 10:19:12
22 your declaration. 10:19:14

1	A	So literally Paragraph 87 says that I	10:19:16
2		think no construction is necessary, and I think	10:19:20
3		that the claim term is understood by person of	10:19:22
4		ordinary skill in the art, and therefore I'm	10:19:25
5		saying that there is no need for -- for	10:19:28
6		construction and the one that petitioner has	10:19:30
7		proposed.	10:19:34
8	Q	Okay. And so just so we're clear, your	10:19:34
9		declaration does not disagree with the content of	10:19:37
10		petitioners' construction of Claim Element 6 B?	10:19:40
11	A	Again, talking just in particular for	10:19:45
12		what I stated in Paragraph 87, there is no	10:19:47
13		discussion about the specific proposal in	10:19:51
14		Paragraph 87.	10:19:54
15	Q	Okay. I think that clarifies the record.	10:19:59
16		Thank you, Dr. Pachamanov.	10:20:02
17		Let's turn to Paragraph 54 of your	10:20:03
18		declaration. And again I'm talking about Exhibit	10:20:12
19		2014.	10:20:14
20		Paragraph 54 is on Page 29, as marked in	10:20:21
21		the lower right-hand corner, and native Page 17.	10:20:23
22		Do you have that page, sir?	10:20:27

1	A	Yes, I'm there.	10:20:29
2	Q	Okay. And on Page 29 there is a heading	10:20:30
3		that reads, Overview of Iwami.	10:20:36
4		Do you see that?	10:20:39
5	A	Yes, I see it.	10:20:40
6	Q	Okay. And then in Paragraph 54 you say	10:20:41
7		that based on your analysis, Iwami is directed to	10:20:47
8		a fundamentally different technological field than	10:20:50
9		the '088 patent.	10:20:54
10		Do you see that?	10:20:55
11	A	Yes, I said that there. Yes.	10:20:56
12	Q	Okay. Now, after that part of the	10:20:58
13		sentence I read, you also said, Specifically the	10:21:05
14		problem of real-time video streaming and image	10:21:08
15		transmission between information processing	10:21:11
16		devices using the WiFi CERTIFIED Miracast, that's	10:21:16
17		M-I-R-A-C-A-S-T, specification.	10:21:22
18		Do you see that?	10:21:26
19	A	I see it, yes.	10:21:27
20	Q	Okay. Is Iwami limited to the WiFi	10:21:30
21		CERTIFIED Miracast specification?	10:21:33
22	A	The disclosure in Iwami is related to a	10:21:36

1 system that he proposes for managing a situation 10:21:43
2 in which WiFi CERTIFIED Miracast specification is 10:21:46
3 used. A specific situation with a certain devices 10:21:49
4 and the organization of the devices. So a system 10:21:56
5 that would use WiFi CERTIFIED Miracast 10:21:58
6 specification. 10:22:02

7 Q Is Iwami limited to the WiFi CERTIFIED 10:22:02
8 Miracast specification? 10:22:07

9 A The examples -- that's how Iwami starts 10:22:09
10 and talks about the WiFi CERTIFIED Miracast 10:22:13
11 specification. And that's what I pointed here 10:22:17
12 citing to Iwami, Paragraph 2. 10:22:19

13 Q So what is the -- sorry, what is the WiFi 10:22:25
14 CERTIFIED Miracast specification, as you 10:22:28
15 understand it? 10:22:30

16 A So that one is a point-to-point 10:22:34
17 connection, which is developed in particular for 10:22:37
18 more or less displaying a user's content on a 10:22:43
19 device, on the remote device. 10:22:47

20 Q Okay. 10:22:49

21 A As -- 10:22:50

22 Q Oh, I'm sorry. Please go ahead. 10:22:50

1	A	That's it, more or less on a very high	10:22:52
2		level, that's -- that's it, without going into	10:22:55
3		technical details.	10:22:57
4	Q	So at a high level, it's a standard that	10:22:57
5		specifies the way in which the communications of	10:23:00
6		the video information are performed; a protocol,	10:23:03
7		if you will.	10:23:06
8		Is that correct?	10:23:07
9	A	Yes, which is specific protocol. WiFi	10:23:08
10		Miracast, the WiFi Direct also. WiFi Direct.	10:23:12
11	Q	Okay. Iwami says, though, that it's not	10:23:17
12		limited to the WiFi CERTIFIED Miracast	10:23:22
13		specification, doesn't it?	10:23:25
14	A	In general, even if he hasn't said it, in	10:23:28
15		general someone reading an art like Iwami would --	10:23:33
16		would understand that WiFi CERTIFIED Miracast is a	10:23:38
17		specific thing that Iwami had in mind. But this	10:23:44
18		would apply, I guess, person of ordinary skill in	10:23:46
19		the art would understand this would apply to any	10:23:51
20		WiFi Direct kind of communication. So	10:23:53
21		point-to-point communication or something like	10:23:55
22		that.	10:23:57

1	Q	Okay. I'm going to ask you to look at	10:23:57
2		the Iwami patent, which is Exhibit 1004.	10:24:02
3		(Exhibit 1004, previously marked, not	10:24:07
4		attached.)	10:24:07
5	Q	And I believe you have that in your chat	10:24:07
6		room.	10:24:09
7	A	Yes.	10:24:12
8	Q	So if you open --	10:24:12
9	A	Yes, I have it opened. Yes.	10:24:13
10	Q	So I'm going to ask you to go to	10:24:17
11		Paragraph 77 of Iwami.	10:24:20
12		Paragraph numbers are the ones in those	10:24:29
13		braces with the 00 prefixes before the 77, for	10:24:31
14		example.	10:24:39
15	A	Yes, I'm there.	10:24:39
16	Q	So Paragraph 77 begins by talking about	10:24:40
17		WiFi CERTIFIED Miracast. Correct?	10:24:48
18	A	Yes, that's how it starts.	10:24:50
19	Q	And then in the last sentence of	10:24:55
20		Paragraph 77 it says, "Instead of WiFi CERTIFIED	10:24:56
21		Miracast, another remote desktop software (for	10:25:00
22		example, Virtual Network Computing, (VNC), may be	10:25:05

1	applied."	10:25:14
2	Do you see that?	10:25:14
3	A I see it, yes.	10:25:16
4	Q So right there Iwami makes it very clear	10:25:17
5	that he's not limited to the certified -- sorry,	10:25:20
6	the WiFi CERTIFIED Miracast specification.	10:25:22
7	Correct?	10:25:27
8	A Well, to be fair, here he talks about	10:25:28
9	remote desktop software, which is virtual network	10:25:30
10	computing, which presumably may still use WiFi	10:25:35
11	CERTIFIED Miracast. I haven't analyzed the	10:25:40
12	software itself.	10:25:41
13	So in this particular case I wouldn't say	10:25:42
14	that he says, Well, this could be a different	10:25:45
15	technology. He says specific software could be	10:25:47
16	used.	10:25:48
17	But as I said, he says that the specific	10:25:49
18	software can be used, which may not be necessarily	10:25:54
19	WiFi CERTIFIED Miracast.	10:25:58
20	Q In fact, that last sentence says,	10:26:01
21	"instead of WiFi CERTIFIED Miracast."	10:26:03
22	Correct?	10:26:06

1	A	That's what it says, yes. It says	10:26:09
2		instead of WiFi CERTIFIED Miracast. But then he	10:26:11
3		points to a specific software.	10:26:14
4	Q	Okay.	10:26:17
5	A	Mixing other things, that's what I mean.	10:26:18
6		Like Miracast certified, it's like Miracast	10:26:21
7		certified is a protocol, more or less, whereas	10:26:24
8		here he talks about software. I don't know. It	10:26:26
9		could be because of translation or something. But	10:26:29
10		it's unclear what -- if he meant something	10:26:30
11		completely different.	10:26:33
12	Q	And I think I heard you say that you	10:26:33
13		didn't analyze the VNC software discussed in this	10:26:35
14		paragraph. Correct?	10:26:39
15	A	No, I haven't.	10:26:41
16	Q	So you don't know whether that software	10:26:42
17		uses a WiFi CERTIFIED Miracast protocol or some	10:26:44
18		other protocol. Correct?	10:26:48
19	A	Sitting here, I don't know, yes.	10:26:50
20	Q	Okay. And you didn't bother	10:26:51
21		investigating that when you formed your opinion as	10:26:56
22		represented in your declaration, Exhibit 2014.	10:26:58

1	Right?	10:27:00
2	A I didn't think it's necessary. If you	10:27:01
3	see, the next paragraph starts with, again, in	10:27:04
4	WiFi CERTIFIED -- here in WiFi CERTIFIED Miracast,	10:27:08
5	for example. So more or less Iwami is based on	10:27:13
6	that, so all the disclosures are there.	10:27:15
7	So I understand that whatever he meant	10:27:18
8	was relevant to this particular protocol.	10:27:19
9	Q Okay. And just so we have the record	10:27:24
10	correct, when you said in the next paragraph, you	10:27:29
11	were referring to Paragraph 78 of Iwami. Nothing	10:27:31
12	in your declaration. Correct?	10:27:34
13	A That's correct. Iwami, yes.	10:27:35
14	Q Thank you, Dr. Pachamanov.	10:27:37
15	So let's go to Iwami at Paragraph 244.	10:27:39
16	Do you have that?	10:27:51
17	A Just give me a second. 244. Yes.	10:27:52
18	Q Okay. So here in Paragraph 244 of Iwami,	10:27:57
19	there is a discussion of WiFi Direct, and in	10:28:05
20	particular P2P, or peer-to-peer direct	10:28:11
21	communication. And it says, "For example, WiFi	10:28:16
22	Direct."	10:28:19

1	Correct?	10:28:19
2	A Let me just read the paragraph. Give me	10:28:20
3	one second.	10:28:21
4	Q Sure.	10:28:22
5	A Yes, I see it now.	10:28:46
6	Q Okay. Later on in that Paragraph 244	10:28:47
7	there is a statement that, "The information	10:28:53
8	processing device 710 has a protocol capable of	10:28:56
9	establishing the connection with the information	10:29:01
10	processing device 730 through the WiFi Direct and	10:29:04
11	enabling image communication such as the WiFi	10:29:09
12	CERTIFIED Miracast or Digital Living Network	10:29:14
13	Alliance."	10:29:18
14	Do you see that?	10:29:18
15	A I see that, yes.	10:29:20
16	Q Okay. What is your understanding of what	10:29:21
17	Digital Living Network Alliance, which is --	10:29:25
18	includes the acronym DLNA, in Paragraph 244?	10:29:31
19	A That's another -- I don't know if it can	10:29:38
20	be used other system, but can be used for similar	10:29:43
21	functionality.	10:29:46
22	Q Okay. So here Iwami is saying very	10:29:46

1	clearly that it's not limited to WiFi CERTIFIED	10:29:48
2	Miracast; you could use DLNA instead. Correct?	10:29:53
3	A That's what Iwami states here. Clearly	10:29:57
4	yes, under the condition that there are specific	10:30:00
5	peer-to-peer direct communication that needs to be	10:30:03
6	established, and then the protocol used for	10:30:06
7	enabling image communication could be something	10:30:11
8	else, yes.	10:30:13
9	Q Okay. I'm going to drop into the chat	10:30:13
10	room a document labeled DLNA, hyphen,	10:30:39
11	Wikipedia.PDF.	10:30:45
12	Let me know, Dr. Pachamanov, when that is	10:30:47
13	available to you and you have it opened.	10:30:49
14	A Yes, I have it opened. Yes.	10:31:04
15	Q Okay. I'll represent to you, sir, that	10:31:05
16	this is a printout of a Wikipedia page that	10:31:07
17	discusses DLNA.	10:31:11
18	I'll ask you if you've ever seen this	10:31:14
19	Wikipedia page prior to today?	10:31:16
20	A I don't recall seeing this page prior to	10:31:21
21	today.	10:31:24
22	Q All right. So underneath the heading	10:31:24

1 DLNA, there is a paragraph. In the second
2 sentence -- I'm sorry, the third sentence of that
3 paragraph, which is about the sixth line down,
4 reads, "DLNA incorporates several existing public
5 standards, including universal plug and play
6 (UPNP) for media management and device discovery
7 and control."

10:31:27

10:31:34

10:31:36

10:31:39

10:31:45

10:31:52

10:31:55

8 Do you see that?

10:31:56

9 A I see it, yes.

10:31:57

10 Q Do you understand from that statement
11 that a DLNA protocol can include UPNP messages for
12 device management -- I'm sorry, for media
13 management and device discovery and control?

10:31:58

10:32:01

10:32:11

10:32:14

14 A That's what the sentence says. But I
15 would -- I would mention here that the Wikipedia
16 page is most probably recent, so it is possible
17 that this has been updated at some point. Even
18 though -- I mean, this could not -- this may not
19 be there back in 2004, it may not be there in 2015
20 or something like that. I haven't done the
21 analysis.

10:32:17

10:32:19

10:32:24

10:32:27

10:32:31

10:32:34

10:32:38

10:32:40

22 But otherwise, to answer to your

10:32:40

1	question, yes, that is what is stated there.	10:32:43
2	Q Okay. And to be clear, you don't have an	10:32:46
3	opinion as to whether DLNA included or excluded	10:32:48
4	UPNP in 2005, for example?	10:32:53
5	A I don't have an opinion about this.	10:32:58
6	Q Okay. All right. We can put that	10:33:01
7	document aside.	10:33:05
8	And I'd like to go to -- back to your	10:33:07
9	declaration, which is Exhibit 2014.	10:33:10
10	MR. STANFORD: Just to jump in really	10:33:12
11	fast just as a housekeeping thing. For the court	10:33:14
12	reporter, I just want to make sure this gets	10:33:16
13	marked as an exhibit as part of this deposition.	10:33:18
14	The document you're showing him.	10:33:21
15	MR. HEINTZ: No problem. And we can get	10:33:23
16	a specific exhibit number at the break, if you	10:33:25
17	want, Matt.	10:33:27
18	MR. STANFORD: Sounds good.	10:33:28
19	MR. HEINTZ: Yeah. But I agree it should	10:33:29
20	be marked as an exhibit number.	10:33:30
21	Q Okay. So, Dr. Pachamanov, I want to go	10:33:34
22	back to your declaration, which again is Exhibit	10:33:37

1	2014. Okay?	10:33:39
2	A Yes, I'm there.	10:33:42
3	Q All right. And I'd like you to turn to	10:33:44
4	Paragraph 57. That begins on what's marked as	10:33:46
5	Page 30 of Exhibit 2014, which is native Page 18.	10:33:54
6	A Yes, I see it.	10:34:01
7	Q All right. So you say from your review,	10:34:02
8	Iwami describes controlling how a sink device	10:34:07
9	receives image data from source devices, and the	10:34:13
10	examples include cameras, smartphones, or content	10:34:16
11	players, and displays that content.	10:34:19
12	That's the first part of the sentence at	10:34:22
13	the beginning of Paragraph 57. Correct?	10:34:23
14	A Yes, that's correct.	10:34:26
15	Q Does the '088 patent give examples of	10:34:26
16	types of source devices that could be used for	10:34:38
17	Terminal 2? And please feel free to refer to the	10:34:40
18	'088 patent, which is Exhibit 1001, which you have	10:34:43
19	available to you.	10:34:47
20	(Exhibit 1001, previously marked, not	10:34:47
21	attached.)	10:34:47
22	A I'm pretty sure it does. And, yes, I'm	10:34:50

1	opening right now the '088 patent.	10:34:53
2	Q All right.	10:35:01
3	A Off the top of my head I remember	10:35:02
4	smartphones was definitely one of them.	10:35:04
5	Q I think that's right. And I don't mean	10:35:05
6	to cut off your review. You can look as much as	10:35:06
7	you'd like. But I think --	10:35:09
8	A I think I found it, but go ahead. Let me	10:35:11
9	know.	10:35:13
10	Q Yeah, I was going to say, if you look at	10:35:13
11	Column 4, starting at Line 43, I think that will	10:35:15
12	perhaps help.	10:35:18
13	A That's what I found as well, yes.	10:35:19
14	Q Okay.	10:35:21
15	A So, yeah, it provides examples of	10:35:23
16	smartphones, tablet terminals, laptop computers,	10:35:25
17	and the like.	10:35:28
18	Q Okay. So in Iwami, a source device can	10:35:29
19	be a smartphone. Correct?	10:35:32
20	A Iwami teaches that, yes, it could be a	10:35:35
21	smartphone.	10:35:37
22	Q And by "source device" we mean the device	10:35:38

1	that's supplying video to a sink device that's	10:35:41
2	going to display the video. Correct?	10:35:45
3	A That's correct, yes.	10:35:46
4	Q Okay. And the '088 also says that	10:35:47
5	Terminal 2, which is the source of the video in	10:35:50
6	the context of the '088 patent, can be a	10:35:54
7	smartphone. Right?	10:35:56
8	A It says that a source of video could be a	10:35:58
9	smartphone, yes.	10:36:01
10	Q Okay. And another example in the context	10:36:02
11	of the '088 patent is a laptop computer. Correct?	10:36:10
12	A That's correct, yes.	10:36:15
13	Q And Iwami also describes a laptop	10:36:15
14	computer as an example of a source device.	10:36:19
15	Correct? And if it will help, I don't mean to cut	10:36:22
16	you off, but you can look at Paragraph 483, for	10:36:25
17	example, in Iwami that I think will show that.	10:36:28
18	A Let me open it. Which one did you say?	10:36:32
19	Sorry, which one?	10:36:35
20	Q Iwami, which is Exhibit 1004, and	10:36:36
21	Paragraph 483 I believe says that a laptop	10:36:39
22	computer, or maybe it's notebook, can be a source	10:36:44

1	device.	10:36:47
2	A Right. It says, yeah, could be a	10:37:01
3	smartphone, tablet terminal, personal computer, a	10:37:02
4	notebook, PC, portable game terminal. That's	10:37:06
5	correct.	10:37:10
6	Q Is there a distinction in your mind	10:37:10
7	between a notebook computer and a laptop computer?	10:37:12
8	A No.	10:37:15
9	Q Okay. I believe the same thing. I	10:37:15
10	always wonder, though.	10:37:18
11	A Yeah, yeah, I would agree.	10:37:19
12	Q Okay. All right. So Iwami and the '088	10:37:20
13	patent talk about source devices that can be	10:37:24
14	smartphones and laptop computers, at least	10:37:28
15	examples of them. Right?	10:37:32
16	A They talk about devices which could be	10:37:34
17	smartphones, computers. Smartphones, laptops,	10:37:37
18	computers, et cetera, yes. Devices that provide	10:37:40
19	content video or images to be transmitted.	10:37:44
20	I mean, I'm trying to stay away from the	10:37:47
21	term "source" just because it's specific term used	10:37:50
22	in Iwami. Otherwise it's a little bit different	10:37:53

1	in the '088. But in general, yeah, I agree with	10:37:57
2	you, both references disclose this kind of	10:38:00
3	devices.	10:38:02
4	Q And again we're talking about the devices	10:38:03
5	that supply the video that's going to be displayed	10:38:05
6	on some other device?	10:38:07
7	A Agree, yes.	10:38:09
8	Q Okay. And Iwami discloses that the sink	10:38:09
9	device can be either a projector or a television.	10:38:16
10	And I'll direct you to Paragraph 248 of Iwami, if	10:38:20
11	you would care to look.	10:38:24
12	Is that correct?	10:38:25
13	A I quickly skimmed through Paragraph 284.	10:38:53
14	It doesn't really say -- okay. It says -- but it	10:38:57
15	says the display function is a function of	10:39:00
16	performing screen display of television or a	10:39:02
17	projector. So it talks more specifically about	10:39:05
18	the display function of the processing device	10:39:07
19	which can perform screen display of a television	10:39:13
20	or projector.	10:39:17
21	Q Yeah. And if I misspoke earlier, I just	10:39:18
22	want to set the record straight. We are talking	10:39:21

1	about Paragraph 248, not Paragraph 284 of Iwami.	10:39:23
2	A Oh, okay.	10:39:27
3	Q Correct?	10:39:28
4	A Sorry, I was reading at 248. So 240, let	10:39:28
5	me check.	10:39:33
6	Q No. 248, that's the --	10:39:33
7	A Yes, I am looking at Paragraph 248 of	10:39:36
8	Iwami, yes.	10:39:39
9	Q Okay. I think I heard you say 284, so I	10:39:39
10	just wanted to make sure we were on the same page.	10:39:42
11	Okay.	10:39:45
12	So Paragraph 248 of Iwami says that the	10:39:45
13	information processing device 730 has a display	10:39:48
14	function of displaying an image. And then says	10:39:52
15	the display function is a function of performing	10:39:55
16	screen display of a television or a projector.	10:39:58
17	Correct?	10:40:01
18	A That's what it says, yes.	10:40:03
19	Q Okay. In plain English, the device	10:40:04
20	that's going to display the video can be or at	10:40:07
21	least can include a television or a projector.	10:40:12
22	Correct?	10:40:16

1	A	A display function could be that, if	10:40:17
2		we -- if we focus on the specific saying here. It	10:40:20
3		doesn't say that the device itself can be a	10:40:22
4		projector, just because the device itself has many	10:40:24
5		other functionalities. So standard projector may	10:40:28
6		not be able to -- to do that.	10:40:31
7		But it says that it has a display	10:40:32
8		function which would be similar to what a	10:40:35
9		projector would provide or a television would	10:40:38
10		provide, displaying things.	10:40:40
11	Q	Okay. So in -- if you would turn to --	10:40:43
12		I'm sorry. If you would turn to Figure 17 of	10:40:57
13		Iwami. Just let me know when you're there.	10:40:59
14	A	Yes, I'm there.	10:41:12
15	Q	All right. So in Figure 17, sort of in	10:41:13
16		the middle right-hand side, we see a box labeled	10:41:16
17		730, Information Processing Device. Correct?	10:41:19
18	A	Yes. Correct.	10:41:23
19	Q	And then we -- and then we have connected	10:41:25
20		to that a display device 731 that includes a	10:41:28
21		display unit 732. Correct?	10:41:34
22	A	That's correct, yes.	10:41:37

1	Q	Okay. And now going back to Paragraph	10:41:38
2		248, keeping that figure in mind now, if you can	10:41:48
3		do it. Paragraph 248 is talking about the	10:41:51
4		information processing device 730. That was the	10:41:56
5		smaller box in Figure 17. Right?	10:41:59
6	A	Yes.	10:42:02
7	Q	It has display function of displaying an	10:42:02
8		image, the display function is a function of	10:42:05
9		performing screen display of a television or a	10:42:10
10		projector.	10:42:13
11		You see that. Right?	10:42:13
12	A	I see that, yes.	10:42:15
13	Q	Okay. So is it your understanding then	10:42:16
14		that in Figure 17 that the display device 731	10:42:19
15		could be a television as discussed in Paragraph	10:42:24
16		248?	10:42:27
17	A	Hypothetically it could be a television.	10:42:30
18		It's a display. So whatever has a display and can	10:42:32
19		interact with the information-processing device	10:42:35
20		could be there, yes.	10:42:37
21	Q	Right. So in light of Figure 17 in this	10:42:38
22		paragraph, we understand that there is going to be	10:42:42

1	some device that processes the video and then	10:42:44
2	passes it to a display of some kind.	10:42:46
3	And one kind of display that's discussed	10:42:50
4	in Paragraph 248 is a television. Correct?	10:42:52
5	A That is an option, yes, it could be like	10:42:55
6	that.	10:42:57
7	Q Or a projector. Right?	10:42:57
8	A Or a projector, if it displays, if it's	10:42:59
9	capable of displaying things.	10:43:02
10	Q Okay. And does the '088 patent also	10:43:04
11	disclose that a projector could be used to display	10:43:08
12	video received from another device?	10:43:12
13	A One of the examples in the '088 is a	10:43:16
14	projector, yes.	10:43:18
15	Q And another example is a television that	10:43:19
16	can be used to display the video from the device.	10:43:23
17	Correct?	10:43:28
18	A I trust you that it is. Like without	10:43:28
19	going to specific thing from the embodiments, but	10:43:30
20	I would say yes it could be a television.	10:43:35
21	Something to display.	10:43:38
22	Q And I think you'll see that in Column 5,	10:43:39

1	Lines 45 to 52 -- I'm sorry, Lines 42 to 52.	10:43:42
2	There's a discussion of a television, if you'd	10:43:48
3	like to confirm it for yourself.	10:43:51
4	A I'm sorry, was it Column 4?	10:43:54
5	Q No, sir. Column 5.	10:43:55
6	A Five?	10:43:57
7	Q And I'll point you right to it. Line 49	10:43:58
8	refers to a television device. Line 52 also	10:44:07
9	refers to --	10:44:23
10	A Right. And this is a little distinguish	10:44:24
11	that I would make. It says television device,	10:44:27
12	monitoring device. I'm not arguing that it's	10:44:29
13	something different; I'm just saying that this may	10:44:32
14	mean that there are other things included in it.	10:44:35
15	So it may not be just a simple TV, like I take it	10:44:37
16	from home and put it there and it works the way it	10:44:42
17	is supposed to work.	10:44:45
18	Q All right. So, so far we have Iwami	10:44:45
19	talking about one device that could be a	10:44:49
20	smartphone or a laptop computer that sends video	10:44:53
21	to a second device that could be or include a	10:44:56
22	projector or a television. Correct?	10:45:00

45

IPR2025-01307; Samsung
Ex. 1048 - Page 46

1 to a couple of places if you'd like if you don't 10:46:20
2 remember off the top of my head. 10:46:22
3 A I would -- I would agree with you. One 10:46:23
4 of the type of content would be video that could 10:46:25
5 be displayed on the -- on the display device. 10:46:28
6 Q Okay. 10:46:30
7 A On the communication device. 10:46:31
8 Q Okay. And in Iwami, the laptop or 10:46:32
9 smartphone also sends video to the display device 10:46:38
10 which is going to be a TV or projector in some 10:46:43
11 examples. Correct? 10:46:47
12 A The specific examples I remember were 10:46:47
13 images. But if you say that there is video as 10:46:49
14 well, we don't need to look into specific 10:46:52
15 disclosure. But I would -- I would say it 10:46:57
16 shouldn't be limited. 10:47:00
17 Q Okay. Now, we talked about two devices 10:47:00
18 so far; a first device which is going to send 10:47:06
19 video, and a second device which is going to 10:47:09
20 receive that video and display it in some fashion. 10:47:12
21 Correct? 10:47:15
22 A That's correct, that's what we were 10:47:19

1 talking about, yes. 10:47:22

2 Q Now, the '088 patent also discloses a 10:47:22

3 third device, which I believe is referred to at 10:47:25

4 least in the claims as a first communication 10:47:27

```
5 terminal that controls how the device that 10:47:30
```

```
6 receives the video is going to display it. 10:47:35
```

7 Correct? 10:47:39

8 A That's one of the functionalities of the 10:47:39

9 first communication device disclosed in the '088 10:47:42

10 patent, how -- how the communication device will 10:47:45

```
11      display.                                     10:47:49
```

12 Q Okay. 10:47:50

13 A This is one of the functionalities, yes. 10:47:50

14 Q All right. So the third device sends a 10:47:52

15 command, I believe in Claim 1, that controls some 10:47:56

16 aspect of how the video from the -- from the -- 10:48:01

17 well, let's give numbers to these things. 10:48:06

18 So there is -- I will use the language 10:48:07

```
19 of -- let me scratch that and start again. 10:48:13
```

20 We have a first device that sends a 10:48:15

21 video, we have a second device that displays a 10:48:18

22 video, and we have a third device that controls in 10:48:21

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

48

1 some way how the second displays -- second device 10:48:23

2 displays the video from the first device. 10:48:27

3 Correct? 10:48:29

4 MR. STANFORD: Objection. Form. 10:48:29

5 A This is -- are you referring now to the 10:48:33

6 '088 patent? Because definitely we're mixing up 10:48:35

7 the numbers for the devices in -- 10:48:37

8 Q Okay. Let's try to do it this way, then. 10:48:39

9 The '088 patent talks about a second 10:48:46

10 terminal. Correct? 10:48:48

11 A That's correct. 10:48:49

12 Q And the second terminal is the device 10:48:50

13 that sends the video. And examples of that can be 10:48:53

14 the smartphone or a laptop. Right? 10:48:56

15 A The '088 patent, among other things, 10:49:00

16 talks about the specific thing that you asked 10:49:02

17 about. But it's not just sending this video. 10:49:04

18 That's the -- that's the -- that's important 10:49:09

19 distinction I'm trying to make between '088 and 10:49:11

20 Iwami. 10:49:14

21 It's not all about just like devices 10:49:16

22 sending video; it's about the organization of the 10:49:18

1 system. So one of the -- one of the features of 10:49:21
2 the second device is that it is capable of sending 10:49:26
3 video if it is allowed to do so by the first 10:49:29
4 terminal in '088. 10:49:33

5 Q Okay. So the device that sends the video 10:49:34
6 is referred to in the '088 patent as the second 10:49:37
7 communication terminal. Correct? 10:49:41

8 A The second device could also send video, 10:49:43
9 yes. It's a functionality that is available for 10:49:46
10 the second device if allowed by the first 10:49:51
11 terminal. 10:49:54

12 Q Okay. And the '088 patent referred to 10:49:54
13 the device that displays video received from the 10:49:58
14 second terminal as the communication device. 10:50:03
15 Correct? 10:50:05

16 A That's correct. 10:50:05

17 Q Okay. And the third device that's 10:50:06
18 referenced in the '088 patent is called the first 10:50:11
19 communications terminal. And one of the things 10:50:14
20 that device does is send a command to the 10:50:16
21 communication device that controls in some way how 10:50:21
22 the video from the second terminal is going to be 10:50:24

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

50

1 displayed. Correct? 10:50:28

2 MR. STANFORD: Objection. Form. 10:50:30

3 A This is one of the functionalities. And 10:50:32

4 there are many other which are also described in 10:50:36

5 the -- in the claims of the patent. But, yes, one 10:50:39

6 of the -- one of the functionalities which I think 10:50:41

7 is in -- I think in 1c, for example, is the one 10:50:43

8 that you pointed out to. 10:50:49

9 Q Okay. Now, there are multiple devices 10:50:50

10 discussed in Iwami. Correct? 10:50:58

11 A Correct, there are multiple devices 10:51:01

12 discussed in Iwami. Yes, that's correct. 10:51:03

13 Q Okay. One of the devices that's 10:51:05

14 discussed in Iwami is a laptop or a smartphone 10:51:08

15 that sends video to another device for display. 10:51:11

16 Correct? 10:51:17

17 A That's correct, Iwami talks about a 10:51:18

18 laptop that can send video. 10:51:21

19 Q Okay. So in that sense -- and I don't 10:51:22

20 mean anything more than that sense -- but in that 10:51:25

21 sense, the device that we're talking about in 10:51:29

22 Iwami, which is referred to as a source device, 10:51:34

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

51

1 corresponds to the second terminal in Claim 1 of 10:51:37
2 the '088 patent. Correct? 10:51:43
3 MR. STANFORD: Objection. Form. 10:51:45
4 A That's what the petitioner and 10:51:48
5 Dr. Paradiso was pointing out too. And I would 10:51:50
6 say that they're saying -- they are saying that 10:51:53
7 the source device is an example of the second 10:51:55
8 device, second terminal in -- in '088. 10:51:58
9 Q Right. 10:52:02
10 A So the source device from Iwami is an 10:52:03
11 equivalent of -- that's what the petitioner, 10:52:07
12 Dr. Paradiso say, is an equivalent of the second 10:52:09
13 terminal in '088. 10:52:12
14 Q Right. And similarly, with respect to 10:52:13
15 the communication device of the '088 patent, the 10:52:19
16 sink device, which is a combination of 730 and 10:52:21
17 731, 732, that corresponds to the communication 10:52:26
18 device. Correct? 10:52:28
19 A That's an example of a device that can 10:52:33
20 receive video or images. It's an example of it, 10:52:35
21 yes. 10:52:40
22 Q And again as we discussed, that's the 10:52:40

1 device that is or includes as part of it a 10:52:42
2 television or a projector. Right? 10:52:45
3 MR. STANFORD: Objection. Form. 10:52:48
4 A It could. That device could -- you are 10:52:49
5 talking about Iwami, I'm sorry, or '088? 10:52:55
6 Q Actually both of them. 10:52:57
7 A Both of them. 10:52:59
8 Q In both Iwami -- Iwami talks about a sink 10:52:59
9 device and gives examples of televisions or 10:53:02
10 projectors or includes television or projector. 10:53:05
11 The '088 patent gives an example of a 10:53:08
12 communication device that is or includes a 10:53:11
13 projector or a television. That's what we talked 10:53:12
14 about earlier. Correct? 10:53:15
15 A That's what we talked about. And in 10:53:16
16 Iwami they talk about the sink device having a 10:53:18
17 display function, so it can display what's 10:53:21
18 received, yes. 10:53:24
19 Q Okay. Now, the '088 patent talks about a 10:53:24
20 first communication terminal that controls in some 10:53:27
21 way how what we're going to call the communication 10:53:31
22 device displays the video. Right? 10:53:34

53

IPR2025-01307; Samsung
Ex. 1048 - Page 54

1 But I am just trying to get the terminology 10:54:37
2 down -- 10:54:39
3 A Okay. 10:54:39
4 Q -- so we're not confusing the numbers or 10:54:39
5 anything like that. All right. 10:54:42
6 Now, I think we established this already. 10:54:53
7 But in the '088 patent, the first terminal, among 10:54:54
8 other things, sends a command to the communication 10:54:57
9 device to control a display operation on that 10:55:02
10 communication device; namely, the projector or the 10:55:08
11 television in the examples we discussed. Correct? 10:55:10
12 A Can you point me to the specific claim 10:55:16
13 that -- that says that? 10:55:18
14 Q Well, let's see. Sorry. So if we turn 10:55:21
15 to the '088 patent, which again is Exhibit 1001. 10:55:29
16 Just let me know if you're there. 10:55:38
17 A Yes, I'm there. 10:55:40
18 Q So in Claim 1 it says, "A first 10:55:41
19 communication terminal configured to connect to 10:55:46
20 the communication device via the access point 10:55:50
21 device and transmit a command to remotely control 10:55:54
22 a display operation on the communication device 10:55:57

1 connected with the first communication terminal." 10:56:02

2 Do you see that? 10:56:04

3 A I see that, yes. 10:56:07

4 Q Okay. So is it not correct, then, that 10:56:08

5 in Iwami one -- I'm sorry, in the '088 patent one 10:56:11

6 of the functions that the first communication 10:56:14

7 terminal does is send a command that controls how 10:56:17

8 video on the communication device is going to be 10:56:22

9 displayed in some fashion? 10:56:25

10 A That's the specific claim limitation, 10:56:27

11 yes. 10:56:29

12 Q Okay. In Iwami, the control device 740 10:56:29

13 also sends a command that controls in some way how 10:56:37

14 video from what we're calling the second 10:56:42

15 communication terminal is displayed on the sink 10:56:45

16 device 730 or the communication device. Correct? 10:56:52

17 MR. STANFORD: Objection. Form. 10:56:54

18 A Let's -- if you don't mind, can we go to 10:56:57

19 my declaration and focus on this particular thing? 10:56:59

20 Because this is where my disagreement with is 10:57:01

21 actually. 10:57:05

22 There is -- 10:57:06

1 Q Okay. 10:57:06

2 A There is a device 740 disclosed in Iwami, 10:57:07

3 that's correct. The question is if it really does 10:57:10

4 what Claim 1 requires. And that's why I'm just 10:57:16

5 saying if you want, we can turn to that, so ... 10:57:19

6 Q Yeah. 10:57:23

7 A The device -- yeah, let's -- do you mind 10:57:23

8 if I -- if I look at my declaration and give you 10:57:26

9 the specific thing? 10:57:28

10 Q Yes. Sorry. No, I do not mind if we go 10:57:30

11 to your declaration. 10:57:33

12 A Okay. 10:57:35

13 Q So why don't you just look at your 10:57:35

14 declaration, which is Exhibit 2014, and tell me 10:57:37

15 the part you want to refer to. 10:57:40

16 A Just give me a second to find it. 10:57:43

17 Okay. So this is -- the section of my 10:58:03

18 declaration I'm referring to is on Page 58 of the 10:58:05

19 document, which is 46 of the declaration itself. 10:58:10

20 Q Just give me a moment, I'll get there. 10:58:15

21 A Sure. And just you point to the 10:58:19

22 paragraph, 124. 10:58:21

57

1 Q Okay. All right, I am there, sir, at 10:58:22

2 Paragraph 124. 10:58:31

3	A	So that's why I wanted to ask you what	10:58:36
4		exactly do you mean by referring to -- with your	10:58:38
5		previous questions about the functionality of the	10:58:41
6		first communication terminal.	10:58:43

7	And we -- I understood that you meant	10:58:46
8	Claim Limitation 1c, which talks about the first	10:58:48
9	communication terminal configured to connect to	10:58:51
10	the communication device via the access point	10:58:54
11	device and transmit a command to remotely control	10:58:57
12	a display operation on the communication device	10:59:00
13	connected to the first communication terminal.	10:59:05

14 So that's the claim language. 10:59:06

15	And then 740, can you repeat the question	10:59:07
16	about 740 then, just so that I'm -- I'm clear I'm	10:59:11
17	answering to the -- to the specific question that	10:59:15
18	you asked me?	10:59:17

19	Q	Sure. Isn't it correct that control	10:59:18
20		device 740 in Iwami connects to the communication	10:59:23
21		device, which is 730, the sink device, and sends a	10:59:27
22		command that controls in some way how video from	10:59:32

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

58

1 the source device, which can be, for instance, 10:59:37
2 710, is displayed on the communication device, 10:59:40
3 730? 10:59:43
4 MR. STANFORD: Objection. Form. 10:59:45
5 A And the response to your question is 10:59:46
6 disclosed in Paragraph 126 of my declaration, 10:59:50
7 which is on Page 59, where I say that, Based on my 10:59:56
8 review, Iwami actually teaches that when changing 11:00:00
9 communication modes, control device 740 sets the 11:00:03
10 communication mode in the source device; transmits 11:00:06
11 information to the source device, rather than the 11:00:10
12 sink device. 11:00:12
13 And I'm citing here to Paragraph 264 from 11:00:13
14 Iwami. 11:00:18
15 So from that perspective, my read is that 11:00:22
16 the 740 does not really control the sink device. 11:00:24
17 740 controls the modes on the source device. From 11:00:29
18 that perspective, my read is a bit different than 11:00:33
19 what you asked. 11:00:35
20 Q Okay. And is it your understanding that 11:00:35
21 the communication between the control device 740 11:00:37
22 and the source device is direct communication, 11:00:42

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

59

1	like peer-to-peer communication?	11:00:52
2	A Well, it could be through the access	11:00:54
3	point as well.	11:00:56
4	Q Okay.	11:00:57
5	A So, but yeah, it's point-to-point. I	11:00:58
6	wouldn't say peer-to-peer. But yeah, it connects	11:01:01
7	to them and controls them in some way.	11:01:05
8	Q It doesn't pass through the device 730,	11:01:07
9	the sink device 730, in any way, in your opinion.	11:01:12
10	Correct?	11:01:15
11	A So let me go to this paragraph just	11:01:16
12	because I don't remember off the top of my head.	11:01:19
13	I just remember that this was the analysis.	11:01:20
14	But so going to Iwami, Paragraph 264.	11:01:24
15	Okay. And let me read the paragraph. Do	11:01:40
16	you want me to do it out loud or do you want me to	11:01:43
17	read for myself and then explain it?	11:01:45
18	Q You can do it whichever way you're	11:01:47
19	comfortable.	11:01:50
20	A So let me first read it then --	11:01:50
21	Q Okay.	11:01:52
22	A -- to myself.	11:01:52

1 So Paragraph 264 in particular talks 11:02:39
2 about the control unit which is within the 740 11:02:43
3 device. And then it says that that control unit 11:02:47
4 747 performs control such that the communication 11:02:51
5 mode is set in the source device -- in device. In 11:02:54
6 this case a control unit 747 causes an image 11:02:59
7 indicating a plurality of service devices to be 11:03:03
8 displayed on the input and the output unit 743, 11:03:06
9 and performs control such that the communication 11:03:09
10 mode is set in the source device based on the 11:03:13
11 manipulation input in the input and output unit 11:03:15
12 743. 11:03:19
13 So my read is that the control device 740 11:03:20
14 controls the mode on the source device. And 11:03:25
15 that's different than what Claim 1c of the '088 11:03:30
16 patent requires. 11:03:35
17 Q And that's different because in your view 11:03:36
18 this -- this control of the mode in the source 11:03:41
19 device or the terminal 2 is performed using a 11:03:47
20 point-to-point communication rather than anything 11:03:53
21 that goes through the communication device/sink 11:03:56
22 730? 11:04:02

61

IPR2025-01307; Samsung
Ex. 1048 - Page 62

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

62

1 source device"? 11:04:59

2 A Again, this is off the top of my head 11:05:02

3 just because right now I cannot really remember 11:05:03

4 what exactly it was. If you want to point to a 11:05:06

5 specific paragraph or you want me to search for 11:05:09

6 it. 11:05:12

7 But off the top of my head, the 11:05:12

8 communication mode was just like the kind of -- of 11:05:13

9 the image, was it the image -- I need to search 11:05:22

10 for it because there are other things that I also 11:05:26

11 remember. 11:05:27

12 Q Okay. 11:05:28

13 A So give me a second. 11:05:29

14 Q Sure. 11:05:30

15 A Or if you -- if you know where it is, you 11:05:32

16 can point me to a specific thing that describes 11:05:35

17 the communication mode. 11:05:37

18 Q Well, you may remember that Iwami talks 11:05:38

19 about a standby mode. 11:05:41

20 A Correct. 11:05:45

21 Q And then there is a mode in which it's 11:05:45

22 transmitting image information that gets displayed 11:05:47

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

63

1 in the -- the -- I am forgetting the term now -- 11:05:50
2 the peripheral channel region and then another 11:05:57
3 mode where it's displayed in the middle -- 11:06:00
4 A Right. Yeah. This refreshes my memory. 11:06:03
5 Yeah, so these are the different types of 11:06:04
6 modes. Like if it was peripheral or if it was 11:06:07
7 central, if we refer back to the figure where -- 11:06:10
8 yes, if it's a standby mode, things also. Yes. 11:06:13
9 Off the top of my head and based on what you just 11:06:19
10 mentioned, that's what I remember about 11:06:20
11 communication mode. 11:06:21
12 MR. HEINTZ: Okay. So, Dr. Pachamanov, 11:06:23
13 we've been going for about an hour now. Would 11:06:26
14 this be a good time for everybody to take a break? 11:06:28
15 THE WITNESS: Yes. 11:06:32
16 MR. HEINTZ: Okay. So why don't we go 11:06:33
17 off the record. 11:06:35
18 VIDEO SPECIALIST: Stand by. We are now 11:06:35
19 going off the video record. The time is 11:06. 11:06:37
20 (A recess was taken.) 11:06:40
21 VIDEO SPECIALIST: We are now back on the 11:16:40
22 video record. The time is 11:16. 11:16:44

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

64

1 BY MR. HEINTZ: 11:16:48

2 Q Welcome back, Dr. Pachamanov. 11:16:49

3 Sir, during the break did you have any 11:16:51

4 discussions about this deposition with any other 11:16:53

5 person? 11:16:56

6 A No, I have not. 11:16:57

7 Q Okay. And to be clear, when I say 11:16:58

8 "discussions," I mean any form of communication, 11:17:01

9 including text messages, emails, electronic, sign 11:17:03

10 message. 11:17:08

11 A No. Nothing. Nothing. Nothing. 11:17:09

12 Q Thank you. All right. 11:17:11

13 MR. HEINTZ: Just a little bit of 11:17:13

14 housekeeping before we go on. We mentioned 11:17:14

15 earlier that the DLNA reference had not been 11:17:16

16 assigned an exhibit number. During the break I 11:17:20

17 put in Exhibit 1047, labeled DLNA Wikipedia. 11:17:22

18 (Exhibit 1047 marked for identification 11:17:22

19 and is attached to the transcript.) 11:17:31

20 Q Would you take a moment, Dr. Pachamanov, 11:17:31

21 and confirm that what's now in the chat room as 11:17:33

22 Exhibit EX 1047 is the document that we looked at 11:17:37

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

65

1 earlier when we discussed DLNA? 11:17:40

2 A Yes, one second to open it. 11:17:46

3 Q Sure. Take your time. 11:17:48

4 A Yes, that's the same document we were 11:17:56

5 discussing. 11:17:58

6 Q Okay. 11:17:58

7 MR. HEINTZ: So we'll -- if everybody 11:18:01

8 agrees, we'll use Exhibit 1047 as the exhibit to 11:18:03

9 this declaration -- I'm sorry, to this deposition 11:18:06

10 transcript, when we file it with the PTAB. 11:18:09

11 Is that all right? 11:18:13

12 MR. STANFORD: Agreed. 11:18:14

13 MR. HEINTZ: Okay. 11:18:14

14 Q All right, Dr. Pachamanov. I want to 11:18:15

15 return to the topic of our conversation before the 11:18:17

16 break. We were talking about your Paragraph 126 11:18:19

17 in your declaration, which was Exhibit 2014. 11:18:25

18 Correct? 11:18:29

19 A Yes, that's correct. 11:18:30

20 Q All right. And the first sentence of 11:18:31

21 Paragraph 126 reads in part, Control device 740 11:18:38

22 sets the communication mode in the source device, 11:18:43

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

66

1 comma, i.e., comma, transmits information to the 11:18:47
2 source device, rather than the sink device 730. 11:18:51
3 And you cite Paragraph 264 of Iwami in 11:18:57
4 support of that statement. Correct? 11:19:01
5 A That's correct, yes. 11:19:03
6 Q Okay. And you stand by that statement 11:19:03
7 now. Nothing has changed since you talked about 11:19:07
8 it earlier. Correct? 11:19:10
9 A Nothing has changed, yes. 11:19:11
10 Q Okay. And I'm going to apologize if I 11:19:12
11 misquote you. Please correct me if I do. But I 11:19:17
12 think what you said was that the communication 11:19:20
13 between 740 the control device, and 710 the source 11:19:23
14 device, should be point-to-point, although it's 11:19:29
15 not specifically stated in Paragraph 264. 11:19:35
16 Did I get that close to correct? 11:19:37
17 A I -- I said something like this. But 11:19:40
18 what I meant is that the device is connected 11:19:43
19 through an access point. So from that 11:19:46
20 perspective, the traffic should go some -- in some 11:19:49
21 way. 11:19:51
22 So, yes; so but like on a very high 11:19:53

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

67

1 level, I would say this direct instruction maybe 11:19:56
2 that was sent. 11:20:01
3 Q Okay. The key point here is this 11:20:02
4 instruction is not going through the sink device 11:20:04
5 730? 11:20:10
6 MR. STANFORD: Objection. Form. 11:20:11
7 A The -- Iwami talks about the sink device 11:20:13
8 being connected to all these devices. It does 11:20:17
9 talk about this. But the reading of this 11:20:20
10 particular paragraph here, my read there is -- and 11:20:22
11 this quote that I put here specifically -- is that 11:20:29
12 the control unit sets this mode into the source 11:20:31
13 device. So this reason the controlled -- Iwami 11:20:35
14 teaches that the control unit -- sorry, control 11:20:40
15 device 740 sets the mode into the source device. 11:20:43
16 Q Okay. 11:20:46
17 A And doesn't talk about where this traffic 11:20:48
18 goes through, in this particular paragraph at 11:20:50
19 least. But that's my understanding, that it sends 11:20:53
20 it directly to the source device. 11:20:56
21 Q Okay. So I want to go and look at Figure 11:20:57
22 17, and again just to make sure we're all talking 11:21:00

1 about the same thing. 11:21:03

2 So in Figure 17, in the lower right-hand 11:21:05

3 portion, we see a control device 740. Correct? 11:21:09

4 A Just give me a second to go to the 11:21:14

5 figure. 11:21:16

6 Q Sure. 11:21:16

7 A Yes, correct. 11:21:18

8 Q Okay. And in Iwami, this control device 11:21:18

9 740, at least in some embodiments, is going to be 11:21:22

10 used by a teacher to select which student's video 11:21:25

11 is going to be displayed on the display device 731 11:21:32

12 in Figure 17. Correct? 11:21:37

13 A That's one of the functionalities of the 11:21:39

14 740 control device, yes. 11:21:41

15 Q All right. And then that 731 device, or 11:21:43

16 the combination of 731 plus 730, that's discussed 11:21:48

17 or identified in Iwami as a sink. Correct? 11:21:53

18 A That's my understanding, yes. 11:21:57

19 Q And we've been saying that that 11:21:58

20 corresponds to the communication device in Claim 1 11:22:01

21 of the '088. Right? 11:22:04

22 MR. STANFORD: Objection. Form. 11:22:06

1 Mischaracterizes earlier testimony. 11:22:07

2 A That's what the petitioner claims. I'm 11:22:10

3 saying that this is clearly described as a sink 11:22:13

4 device in Iwami. 11:22:16

5 Q Okay. And with respect to the source 11:22:17

6 devices in Figure 17, examples of those include 11:22:21

7 device 710 and device 720. Correct? 11:22:27

8 A Yes, as depicted on the figure. Yes. 11:22:34

9 Q Right. And also 703 and 704 are 11:22:37

10 additional source devices? 11:22:41

11 A That's correct, that's what -- 11:22:44

12 MR. STANFORD: Objection to form. 11:22:45

13 A -- displays. 11:22:47

14 Q All right. And we were saying that at 11:22:48

15 least petitioner contends that the source devices 11:22:52

16 in Figure 17 correspond to the second 11:22:55

17 communication terminal in Claim 1 of the '088 11:22:59

18 patent. Correct? 11:23:02

19 MR. STANFORD: Objection. Form. 11:23:04

20 A That's -- 11:23:05

21 MR. STANFORD: Objection. 11:23:05

22 Mischaracterizes earlier testimony. 11:23:06

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

70

1 A That's again something Iwami is talking 11:23:08
2 about, the specific devices which are source 11:23:11
3 devices. And that's the -- that I agree with. 11:23:13
4 Then the conclusion that the petitioner 11:23:18
5 makes, I cannot say that this is -- this is yes or 11:23:20
6 no, I'm sorry. 11:23:24
7 Q I understand you don't agree. 11:23:25
8 A Yeah. 11:23:27
9 Q But you understand that's what the 11:23:27
10 petitioner is saying. Correct? 11:23:29
11 A The petitioner is saying that the source 11:23:30
12 devices correspond to -- to the second terminal in 11:23:33
13 '088. 11:23:39
14 Q Okay. All right. So going back to 11:23:39
15 Paragraph 126. 11:23:44
16 When you formed your opinion that the 11:23:45
17 control device sets the communication mode in the 11:23:47
18 source device by transmitting that information 11:23:51
19 from the control device to the source device 11:23:56
20 rather than the sink device 730, do you read the 11:23:59
21 entirety of Iwami in reaching that conclusion? 11:24:02
22 A I didn't read the entirety of Iwami for 11:24:07

1 sure. But like as I said, and that's why I cited 11:24:09
2 to this particular paragraph in Iwami, this 11:24:15
3 explains what exactly -- what are the basis for my 11:24:19
4 conclusion. 11:24:25

5 That being said, it -- the fact that it 11:24:27
6 clearly states that it sets the -- the 11:24:30
7 communication mode in the source device, this 11:24:35
8 means that it manages -- that's what I'm arguing 11:24:39
9 about. It manages the mode in the source devices. 11:24:41
10 The communication path for this to happen is 11:24:46
11 irrelevant, in my opinion. 11:24:48

12 Q Okay. And then in Paragraph 127 of your 11:24:50
13 declaration, third full sentence reads, 11:24:54
14 "Therefore, Iwami does not describe the sink 11:25:02
15 device receiving a display-control command from 11:25:05
16 the control device and then, in response, 11:25:09
17 controlling how it displays the second terminal's 11:25:13
18 data." 11:25:16

19 Correct? 11:25:17

20 A That's what the sentence says, yes. 11:25:18

21 Q Yeah. And that's your opinion. Correct? 11:25:19

22 A That's correct. 11:25:22

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

72

1 Q All right. And just to be clear, the 11:25:23
2 "it" in the last part of that sentence refers to 11:25:26
3 the sink device. So the last part of that 11:25:31
4 sentence reads, controlling how the sink device 11:25:34
5 displays a second terminal's data. Correct? 11:25:37
6 A That's what "it" refers to in this 11:25:40
7 sentence, yes. 11:25:42
8 Q All right. So I'd ask you to turn to 11:25:43
9 Iwami again. And I'm going to ask you to turn to 11:25:46
10 Paragraph 296. Just let me know when you're 11:25:54
11 there. 11:26:03
12 A I went there. Let me just read it. 11:26:09
13 Q Sure. 11:26:11
14 A 296. Right? 11:26:17
15 Q Yes. Yes, sir. 11:26:18
16 A Okay. Yes, I'm there. 11:26:19
17 Q All right. So there's a heading above 11:26:21
18 Paragraph 196 which reads, Switching Example of a 11:26:24
19 Communication Mode of Source Device. 11:26:28
20 Do you see that? 11:26:30
21 A I see it, yes. 11:26:31
22 Q Okay. And again, the source device is 11:26:32

1 going to be in Figure 17, 710, 720, 703, and 704. 11:26:35

2 Right? 11:26:41

3 A That's -- that's correct, yes. 11:26:42

4 Q And this communication mode that's 11:26:43

5 discussed in this heading is the same 11:26:46

6 communication mode that you're discussing in 11:26:49

7 Paragraph 126 of your declaration. Correct? 11:26:53

8 A It should be the same one, yes. 11:26:59

9 Q Yeah. And I think it is. I'm not trying 11:27:00

10 to trick you. I just wanted to make sure. 11:27:02

11 A Okay. Yes. 11:27:05

12 Q All right. So looking at Paragraph 296, 11:27:05

13 Iwami states, Here, a switching method when the 11:27:08

14 communication modes, and they give a parentheses, 11:27:12

15 the standby mode and the image transmission mode, 11:27:15

16 of the source device are switched will be 11:27:18

17 described. 11:27:20

18 Do you see that? 11:27:21

19 A I see that, yes. 11:27:22

20 Q All right. And so the standby mode is 11:27:23

21 the mode, based on your understanding, where the 11:27:25

22 source device is not transmitting video to any 11:27:29

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

74

1	other device. Correct?	11:27:33
2	A That's the setting said by the control	11:27:35
3	device, yes.	11:27:39
4	Q And then the image transmission mode is	11:27:39
5	when there is a transmission of video from the	11:27:42
6	source device to in particular the sink device	11:27:44
7	730. Correct?	11:27:49
8	A That's correct, yes.	11:27:50
9	Q Okay. Now, Paragraph 297 reads, "For	11:27:51
10	example, the following (B1) to (B3) can be used as	11:27:55
11	triggers for switching the communication modes of	11:28:02
12	the source device."	11:28:05
13	Do you see that?	11:28:05
14	A I see that, yes.	11:28:06
15	Q Okay. And so is it your understanding	11:28:07
16	that what's going to follow in B1, B2, and B3 are	11:28:09
17	ways in which the switching of the communication	11:28:16
18	mode of the source device can be triggered?	11:28:18
19	Is that your understanding?	11:28:22
20	A That's what Paragraph 297 says, yes.	11:28:23
21	Q All right. Now, Paragraph 298 is labeled	11:28:25
22	(B1). And that reads, Switching using the source	11:28:30

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

75

1 device, for example, active switching according to 11:28:35
2 a manipulation of the user using the source 11:28:38
3 device. 11:28:41
4 Do you see that? 11:28:42
5 A I see that, yes. 11:28:42
6 Q Okay. So that's talking about the user, 11:28:43
7 like a student, who is using one of the source 11:28:46
8 devices, such as 710, doing something on the 11:28:49
9 source device that's going to make the source 11:28:52
10 device switch the communication mode. Correct? 11:28:54
11 A Sounds like it, yes. 11:28:58
12 Q All right. And now in Paragraph 299 we 11:28:59
13 have (B2), which is, Switching using the control 11:29:02
14 device, then it says, for example, switching, and 11:29:05
15 then a parentheses, (remote manipulation 11:29:11
16 switching) according to a manipulation of the user 11:29:16
17 using the control device 740. 11:29:19
18 Do you see that? 11:29:22
19 A Yes, I see it, yes. 11:29:22
20 Q So what that's talking about, as I 11:29:24
21 understand it, is that the teacher, for example, 11:29:26
22 at the control device, is going to perform 11:29:28

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

76

1 something on a control device 740 that's going to 11:29:31
2 result in a switch of the mode of the source 11:29:33
3 device. 11:29:37
4 Does that match your understanding? 11:29:38
5 A Yes, I agree with this. 11:29:40
6 Q Okay. And then finally, B3 talks about 11:29:41
7 switching using the sink device (for example, 11:29:44
8 switching according to a manipulation of the user 11:29:47
9 using the sink device). Right? 11:29:50
10 A That's correct, yes. 11:29:53
11 Q So that would be something like a user of 11:29:54
12 the projector or the television or the device that 11:29:57
13 includes those things doing something at that 11:30:01
14 device rather than 740 or 710 to switch the mode. 11:30:04
15 Correct? 11:30:08
16 A That's correct, yes. 11:30:09
17 MR. STANFORD: Objection. Form. 11:30:10
18 Q Okay. So I want to now look at the 11:30:11
19 discussion of what's marked in Paragraph 299 as 11:30:19
20 B2. And that's the one where you're using the 11:30:24
21 control device for switching the mode of the 11:30:27
22 source device. Okay? 11:30:32

77

IPR2025-01307; Samsung
Ex. 1048 - Page 78

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

78

1 B2. 11:31:31

2 Would you agree with that? 11:31:32

3 A Let me read it. You told me this, but 11:31:34

4 let me just read it to confirm that it is exactly 11:31:37

5 the same. 11:31:40

6 Q Sure. 11:31:40

7 A Yes, I do agree that this is a typo, yes. 11:32:28

8 Q Okay. 11:32:31

9 A So B3 should correspond to B2 in this 11:32:31

10 issue. 11:32:37

11 Q Right. And we're talking about B3 in 11:32:37

12 Paragraph 304 corresponding to B2 in Paragraph 11:32:40

13 299? 11:32:47

14 A Yes. 11:32:47

15 Q Okay. And so what Paragraph 304 talks 11:32:47

16 about is that a user of the control device 740, 11:32:52

17 which could be a teacher, is going to be the 11:32:56

18 switching trigger that's going to trigger the 11:33:00

19 change in mode on the source device, for example 11:33:02

20 710. Correct? 11:33:06

21 A That's what it says, yes. 11:33:12

22 Q So the way 304 says this is going to 11:33:13

1 happen is, when the switching manipulation of the 11:33:15
2 source device is performed in the control device 11:33:21
3 740, information, and they give an example as the 11:33:25
4 terminal identification information related to the 11:33:30
5 source device in which the switching manipulation 11:33:34
6 has been performed is transmitted to the sink 11:33:37
7 device, which is the information processing device 11:33:39
8 730. Right? 11:33:42
9 A That's the sentence, yes. You're reading 11:33:46
10 it correct. 11:33:47
11 Q And my understanding of this is that when 11:33:48
12 somebody at 740 selects one of the source devices 11:33:51
13 710 for a change in mode, right, that the 11:33:55
14 identification of that particular device 710, that 11:34:02
15 particular sink device, is going to be sent from 11:34:05
16 the control device, to the sink device 730. 11:34:08
17 Is that your understanding of this 11:34:12
18 paragraph? 11:34:13
19 A Let's -- 11:34:15
20 MR. STANFORD: Objection. Form. 11:34:15
21 A Let's read more carefully the sentence. 11:34:16
22 Q Sure. 11:34:21

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

80

1 A So when the switching manipulation of the 11:34:21
2 source device is performed in a control device 11:34:23
3 740, this is when somebody clicks as you said the 11:34:26
4 teacher, information, for example, the terminal 11:34:29
5 identification information, related to the source 11:34:34
6 device in which the switching manipulation has 11:34:36
7 been performed, is transmitted to the sink device 11:34:39
8 (the information processing device 730). 11:34:43
9 So that's what it says. It doesn't say 11:34:46
10 that it's directly sent from the control device, 11:34:48
11 to -- to the sink device. It says that this -- 11:34:52
12 this is transmitted to the sink device. 11:34:57
13 I don't see that it says 740 transmits to 11:35:01
14 730. That information eventually reaches the sink 11:35:05
15 device. It obviously reaches it. I don't argue 11:35:08
16 with that. 11:35:10
17 Q Okay. And it says, When the information 11:35:11
18 is received, the sink device, which is the 11:35:18
19 processing device 730, performs control such that 11:35:22
20 the band of the source device in which the 11:35:25
21 switching manipulation has been performed is 11:35:27
22 increased or decreased while performing control 11:35:30

1 for the other bands. Right? 11:35:33

2 A That's the sentence, yes. That's what it 11:35:36

3 says. 11:35:37

4 Q Okay. So the sink device is performing 11:35:38

5 the control to change the band of the source 11:35:44

6 device 710, for example. Right? 11:35:49

7 A And this happens after this information 11:35:54

8 is received. So once the mode is set in some way 11:35:56

9 by -- by the control device, then the source 11:36:01

10 device does this things, yes, switching 11:36:05

11 manipulation or whatever, increase -- it increases 11:36:10

12 the -- sorry. Let me read it more carefully. 11:36:13

13 Q Sure. 11:36:17

14 A So -- so, yes. It says when the 11:36:17

15 information is received, the sink device, the 11:36:21

16 information processing device 730, performs 11:36:24

17 control. 11:36:27

18 So once it receives the information about 11:36:28

19 the mode set in the -- in the source device, then 11:36:29

20 the source device performs control such that the 11:36:34

21 band of the source device in which the switching 11:36:46

22 manipulation has been performed is increased or 11:36:48

1 decreased while performing control for the other 11:36:51
2 bands. 11:36:53
3 So again, I agree the sink device does 11:36:53
4 control this, and this information reaches the 11:36:57
5 sink device. 11:37:01
6 What I was discussing is that that 11:37:02
7 previous paragraph that we talked about, 264, 11:37:07
8 which I cited to in my declaration, is that the 11:37:10
9 control device sets the mode in the source device. 11:37:13
10 And then the sink device acts based on that 11:37:17
11 information. 11:37:21
12 Q Yep. I think -- 11:37:21
13 A Which is -- 11:37:25
14 Q I'm sorry. Please finish your answer. 11:37:26
15 A Which is received in some way in the sink 11:37:28
16 device. 11:37:29
17 Q All right. So one of the things we have 11:37:30
18 to be clear on here is what the information is. 11:37:31
19 You read the sentence that says, When the 11:37:35
20 information is received, the sink device, which is 11:37:37
21 730, performs control such that the band of the 11:37:42
22 source device in which the switching manipulation 11:37:45

1 has been performed is increased or decreased. 11:37:48

2 Right? 11:37:51

3 A That's what the sentence is, yes, says, 11:37:52

4 yes. 11:37:55

5 Q And the information that they're talking 11:37:56

6 about here is, for example, the terminal 11:37:57

7 identification information related to the source 11:38:03

8 device in which the switching manipulation has 11:38:05

9 been performed. Right? So we're talking about 11:38:08

10 the ID of the terminal. Right? 11:38:11

11 A Correct. It talks about the source 11:38:15

12 device, yes. 11:38:16

13 Q Right. So that would be the second 11:38:16

14 terminal in this -- in the lexicon of Claim 1. 11:38:20

15 But the point is, what's being sent to 11:38:25

16 the sink device is the identification of a 11:38:31

17 particular 701 for whom mode control is going to 11:38:33

18 be performed. Right? 11:38:38

19 MR. STANFORD: Objection. Form. 11:38:39

20 A I mean, the sentence here is clear, that 11:38:42

21 the information refers to this terminal 11:38:46

22 identification information, yes. That's the 11:38:49

1 information this paragraph is talking about. So I 11:38:51
2 agree with this. 11:38:55
3 Q Right. And when the sink device receives 11:38:56
4 that terminal identification information for one 11:38:59
5 of the source devices, then the sink device 11:39:01
6 performs control such that the band of the source 11:39:06
7 device is increased or decreased. Correct? 11:39:09
8 A So the sink device receive the 11:39:14
9 information about the device. And in order to 11:39:16
10 make the -- to send the band, it needs to know the 11:39:21
11 mode. And the mode is not discussed here. 11:39:25
12 Correct? 11:39:27
13 Q Well -- 11:39:28
14 A So the information definitely -- yes, so 11:39:29
15 it receives information. The sink device receives 11:39:32
16 information about the terminal identification, so 11:39:34
17 the terminal ID, and then sets the band for that 11:39:37
18 terminal. 11:39:43
19 The question is how is it going to set 11:39:44
20 this band? Like, what does it need for that? It 11:39:46
21 needs mode information, but this particular 11:39:49
22 paragraph doesn't talk about this. 11:39:54

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

85

1 Q Okay. When you talk about mode 11:39:55

2 information, what do you mean? 11:40:07

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3      A      The communication mode that is set by --      11:40:08
4      by the control device 740 in the source device.      11:40:12
```

5 Q Okay. And so when the -- when the mode 11:40:17
6 is the peripheral channel region mode, is there a 11:40:22
7 particular band that's associated with that? 11:40:25

8	A That's -- that's something that off the	11:40:32
9	top of my head I cannot answer. But based on my	11:40:36
10	memories and recollection of the disclosure in	11:40:39
11	Iwami, that could be one of the -- one of the	11:40:42
12	possibilities, that you use different -- the same	11:40:48
13	device uses different bands based on the	11:40:50
14	communication mode.	11:40:53

15	Q Right. And so when you're in the	11:40:54
16	presentation communication mode, you're	11:40:56
17	transmitting the video in the low-frequency band.	11:41:00
18	And when you're in the middle region of mode,	11:41:03
19	you're transmitting the video information in the	11:41:05
20	high-frequency band, according to Iwami.	11:41:09

21 Do you recall that? 11:41:11

22 MR. STANFORD: Objection. Form. 11:41:13

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

86

1 A I do recall that Iwami was disclosing the 11:41:15
2 information like this, yes. 11:41:17

3 Q Okay. So in Paragraph 304 where it says 11:41:19
4 the sink device 730 performs control such that the 11:41:24
5 band of the source device in which the switching 11:41:29
6 manipulation has been performed is increased or 11:41:31
7 decreased, what they're talking about is, if you 11:41:35
8 move the sink -- sorry, the source device from the 11:41:39
9 peripheral region to the middle channel region, 11:41:44
10 you're going to increase the band. Correct? 11:41:46

11 MR. STANFORD: Objection to form. 11:41:49

12 A I -- I thought in this discussion, the 11:41:51
13 whole discussion we have is about the control 11:41:54
14 device actually controlling the sink device. 11:41:56

15 So I'm not -- I'm not saying that the 11:41:59
16 sink device doesn't change the band. It does 11:42:01
17 change the band. This is disclosed clearly. 11:42:04

18 What I'm saying, and the reason we were 11:42:06
19 discussing Paragraph 126 from my declaration, is 11:42:09
20 that the disclosure in Iwami is that the control 11:42:11
21 device controls the mode in the source device. So 11:42:14
22 indirectly that information eventually reaches the 11:42:18

1 sink device. And I guess Paragraph 304 in Iwami 11:42:22
2 is talking about this. But -- 11:42:26
3 Q I think you -- I'm sorry. Go ahead. 11:42:29
4 A No. That's it. Go ahead. Sorry. 11:42:32
5 Q So I think the problem here is that 11:42:34
6 you're misinterpreting what you're reading in 11:42:37
7 Paragraph 304. 11:42:39
8 I think what 304 is saying very clearly 11:42:40
9 is that when the user at the control device, which 11:42:42
10 is 740, picks one of the source devices to change 11:42:48
11 its mode, for instance to go from the peripheral 11:42:57
12 region to the center region, what's going to 11:43:00
13 happen is, the control device 740 is going to send 11:43:03
14 a message to the display device, which is 730, the 11:43:07
15 sink device. That message is going to identify 11:43:11
16 the terminal whose mode is being changed. And 11:43:13
17 when the sink device receives that message, the 11:43:16
18 sink device will send another message on to the 11:43:20
19 source device, and that's the message that 11:43:23
20 controls the mode and the frequency band on the 11:43:26
21 source device. 11:43:30
22 That's why this paragraph says, When the 11:43:31

1 information is received, the information being the 11:43:34
2 identification of the source device, okay, the 11:43:38
3 sink device performs control such that the band of 11:43:40
4 the source device in which the switching 11:43:44
5 manipulation has been performed is increased or 11:43:47
6 decreased. 11:43:50
7 When they're talking about the switching 11:43:50
8 manipulation, they're talking about the user 11:43:52
9 having selected the terminal, the source device 11:43:55
10 whose mode is going to be changed. 11:44:01
11 That's the way I read 304. I think it's 11:44:04
12 very clear. And I think you're reading it 11:44:06
13 backwards. 11:44:08
14 Do you disagree or agree with that? 11:44:10
15 MR. STANFORD: Objection to form. 11:44:12
16 A I disagree with your read. Obviously I 11:44:14
17 expressed my -- my opinion in my declaration. 11:44:16
18 An alternative to your read is that the 11:44:22
19 control device sets the mode in the source device, 11:44:25
20 then the source device in some way informs the 11:44:28
21 sink device about its ID and the set mode, and 11:44:32
22 then the sink device performs all these actions. 11:44:36

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

89

1 So we have a disagreement. What I said 11:44:38
2 is that this particular paragraph is not clear. 11:44:41
3 And my read based on this paragraph, based on the 11:44:44
4 previous Paragraph 264 of Iwami, is that the 11:44:46
5 control device sets the mode for the -- for the 11:44:50
6 source. 11:44:54
7 It's not -- it's not a control of the -- 11:44:56
8 of the sink device. 11:45:00
9 Q So in your read, when this sentence 11:45:02
10 states, When the information is received the sink 11:45:07
11 device, the information processing device 730, 11:45:11
12 performs control such that the band of the source 11:45:14
13 device in which the switching manipulation has 11:45:17
14 been performed is increased or decreased, what 11:45:20
15 kind of control is being performed by the sink 11:45:23
16 device 730, in your understanding of what this 11:45:28
17 paragraph states? 11:45:31
18 A I'm focusing on the first part of the 11:45:34
19 sentence. You're focusing on the last part of the 11:45:36
20 sentence. I am saying -- I am focusing on, "when 11:45:38
21 this information is received." So this 11:45:40
22 information is received at some point. 11:45:42

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

90

1 Q The information is the identification of 11:45:44
2 the terminal. Right? 11:45:47
3 A And that could come from the terminal. 11:45:49
4 Right? 11:45:50
5 Q Could be. But it's just the 11:45:52
6 identification of the terminal; it's not a 11:45:54
7 statement that's saying, I just changed my mode 11:45:56
8 because the control device told me. Right? It's 11:45:58
9 just saying, the identification of the terminal. 11:46:01
10 So go ahead with your answer. When the 11:46:05
11 identification of the terminal is received, then 11:46:09
12 what happens? 11:46:11
13 MR. STANFORD: Objection. Form. 11:46:11
14 A Then -- then clearly states, it states it 11:46:12
15 here. Do you want me to read it again? So it 11:46:15
16 says -- 11:46:17
17 Q Please do. 11:46:18
18 A -- when the information is received, the 11:46:18
19 sink device, information processing device 730, 11:46:20
20 performs control such that the band has been 11:46:23
21 performed -- sorry, such that the band of the 11:46:25
22 source device in which the switching manipulation 11:46:28

1 has been performed is increased or decreased while 11:46:31
2 performing control for the other bands. 11:46:34
3 Q You agree that that means that the sink 11:46:36
4 device 730 performs controls such that the band of 11:46:40
5 the source device is being changed? 11:46:46
6 MR. STANFORD: Objection. Form. 11:46:49
7 A I agree -- I agree that the sink device 11:46:50
8 implements that change, yes. 11:46:52
9 Q How do you think the sink device is able 11:46:53
10 to implement a change on the source device? 11:46:56
11 A It doesn't implement a change on the 11:47:00
12 source device. Based on the information provided 11:47:02
13 from the source device, it can implement the 11:47:04
14 change on the sink device. 11:47:06
15 Q So you think the sentence then reads, 11:47:11
16 "The sink device performs controls such that the 11:47:15
17 band of the source device is increased or 11:47:18
18 decreased" means that it's the band of the sink 11:47:22
19 device that's being increased or decreased? 11:47:24
20 A They communicate over certain band. Like 11:47:27
21 I would -- I will be surprised if the sink device 11:47:28
22 uses low band and then the other one uses high 11:47:31

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

92

1 band. 11:47:34

2 What I -- what I mean is that -- let me 11:47:36

3 try to explain. Sorry. I guess we are just 11:47:40

4 focusing on different parts of the disclosure. 11:47:42

5 So they do communicate. Correct? So the 11:47:45

6 sink device and the source device communicate over 11:47:49

7 certain band. 11:47:51

8 Q How do they -- what are they 11:47:53

9 communicating over that band? 11:47:57

10 A I'm sorry? 11:47:58

11 Q What communications are occurring over 11:47:58

12 that band? Is it the transmission of video? 11:48:01

13 A Could be. 11:48:04

14 Q Okay. Go ahead. I'm sorry. 11:48:05

15 A Could be. So one of the things is that 11:48:08

16 if you change the mode to the presentation mode, 11:48:10

17 let's say, wasn't that the disclosure in Iwami 11:48:13

18 that if this happens, then the sink device changes 11:48:17

19 the band from low band to high band. So that's an 11:48:20

20 example. 11:48:23

21 The mode in the sink -- in the source 11:48:24

22 device is changed to presentation, the sink device 11:48:27

1 understands that this is -- this has happened; 11:48:31
2 therefore, it informs the device that it has to 11:48:34
3 connect to the high band because it has to 11:48:39
4 transmit the presentation mode. 11:48:41
5 Q I'm sorry. You said, "it." So you said 11:48:43
6 "it informs the device." What -- 11:48:46
7 A The sink device. 11:48:49
8 Q The sink device informs the source device 11:48:50
9 that the source device needs to switch the mode. 11:48:53
10 Is that what you're saying? 11:48:55
11 A Yes. Because the communication is going 11:48:56
12 to be performed in high band. Yes. 11:48:58
13 Q Right. So that's a message from the sink 11:49:00
14 device that tells the source device to change 11:49:02
15 its -- the source device's mode. Right? 11:49:06
16 A It is, yes. 11:49:09
17 Q Well, that's exactly what you said didn't 11:49:10
18 happen. You said that it's the control device 11:49:12
19 that tells the source device to change its mode, 11:49:17
20 and that had nothing to do with going through the 11:49:20
21 sink device. 11:49:22
22 Now you've just said, which I think 11:49:23

1 you're correct, that the source device is told by 11:49:25
2 the sink device to change its mode. And so the 11:49:30
3 control message is coming from the sink device 730 11:49:34
4 to the source device 710. Right? 11:49:38
5 MR. STANFORD: Objection. Form. 11:49:41
6 Mischaracterizes earlier testimony. 11:49:42
7 A I'm not arguing with this message there. 11:49:43
8 I never argued about this. 11:49:46
9 What we're discussing right now and the 11:49:48
10 part that we disagree with is what initiates the 11:49:50
11 whole communication. So what you are saying is 11:49:52
12 that to you it is obvious, at least my 11:49:56
13 understanding of what you are saying, it is 11:49:58
14 obvious that the sink device does all the control. 11:50:01
15 I'm not saying the control is not there. 11:50:02
16 What I'm saying is that, based on 11:50:04
17 previous disclosure in Iwami, the control device 11:50:06
18 740 sets the mode in the source device. And the 11:50:10
19 source device as such, one possibility, the way I 11:50:16
20 read it, is that it has the mode set, the source 11:50:20
21 device has the mode set; informs the sink about 11:50:24
22 this change of mode; then the sink identifies that 11:50:28

1 the mode is now presentation mode, therefore 11:50:31
2 different band is needed because it will be a 11:50:35
3 presentation mode. And then it says -- sends -- 11:50:38
4 the sink device sends back to the source device, 11:50:41
5 okay, since you are in presentation mode right 11:50:43
6 now, let's switch to high band so you can present 11:50:46
7 whatever you are presenting in high band. 11:50:49
8 So I'm not saying the control is not 11:50:51
9 there. There is a control from the sink device 11:50:53
10 to -- to the source device. That's correct. But 11:50:55
11 we're not discussing this; we weren't discussing 11:50:59
12 this initially. 11:51:03
13 Q Okay. And when the sink device tells -- 11:51:05
14 let me withdraw that. 11:51:11
15 Let's look at Figure 22 of Iwami. And if 11:51:24
16 you'll just let me know when you get there, we can 11:51:34
17 go through that discussion. 11:51:38
18 A Yes, I'm there. 11:51:39
19 Q Okay. So I'm going to focus on Figures 11:51:40
20 22B and 22C in this discussion. Okay? 11:51:46
21 A Yes. 11:51:50
22 Q Okay. So in Figure 22B we have a video 11:51:51

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

1	which appears to be some sort of small animal.	11:51:56
2	I'm going to call it a fox, if that's okay with	11:52:00
3	you. Maybe it's a dog, a cat.	11:52:02
4	A I think it's a cat, but okay.	11:52:04
5	Q Okay. A cat.	11:52:06
6	A I agree it is a fox.	11:52:07
7	Q Okay, I am going to say cat just to make	11:52:08
8	it easy.	11:52:11
9	So Figure 22B we have a video of a cat,	11:52:11
10	and that's in the middle channel region, 733.	11:52:14
11	Right?	11:52:17
12	A Yes.	11:52:18
13	Q Okay. And still in Figure B on the left	11:52:18
14	side, there is a peripheral channel region, 734.	11:52:22
15	Correct?	11:52:26
16	A That's correct, yes.	11:52:27
17	Q And we see three different videos in 734;	11:52:27
18	a star, a smiley face, and a running horse.	11:52:31
19	Correct?	11:52:34
20	A Yes, three different images. Correct.	11:52:36
21	Q Three different images. Right.	11:52:38
22	And is it your understanding that the	11:52:42

1 images in the middle channel region and the 11:52:44
2 peripheral channel region all come from a 11:52:46
3 different student device, such as 710, 720, 703, 11:52:50
4 704 in Figure 17? 11:52:54

5 A That should be it, yes. Those should 11:52:56
6 come from source device. 11:52:58

7 Q Right. And if you look real quickly at 11:52:59
8 Figure 17, you'll actually see that the cat is on 11:53:02
9 one of the devices, the running horse is on 11:53:05
10 another, and there is a star and a smiley face on 11:53:07
11 703 and 704. 11:53:10

12 So these -- what we're seeing in Figure 11:53:13
13 22B is images originating from the different 11:53:16
14 student devices. Right? 11:53:19

15 A Yes, I agree with that. Yes. 11:53:21

16 Q Okay. And then as we go from Figure 22B 11:53:22
17 to Figure 22C, there's been a change. Okay? And 11:53:27
18 what's happened is, the cat that was previously 11:53:30
19 displayed in the middle channel region is no 11:53:35
20 longer shown in Figure 22C. Right? 11:53:38

21 A That's correct, yes. 11:53:41

22 Q Okay. And then there was a running horse 11:53:42

1 in Figure 22B in the lowest position in the 11:53:47
2 peripheral channel region. In Figure 22C now the 11:53:51
3 running horse is in the middle channel region. 11:53:56
4 Correct? 11:53:58
5 A That's correct, yes. 11:53:58
6 Q Okay. And then in Figure 22B we had a 11:53:59
7 smiley face image that was in the center region of 11:54:03
8 the peripheral -- center portion of the peripheral 11:54:07
9 channel region. That's now in the lower portion 11:54:10
10 of the peripheral channel region in Figure 22C. 11:54:13
11 Correct? 11:54:17
12 A Yes. Changed position. 11:54:19
13 Q The smiley face has moved down one 11:54:20
14 position between -- 11:54:22
15 A Yeah. 11:54:23
16 Q -- 22B and 22C. Right? 11:54:23
17 A That's correct, yes. 11:54:27
18 Q Okay. Then going back to 22B, we had a 11:54:27
19 star image that was on the upper part of the 11:54:31
20 peripheral channel region in 22B, and now in 22C 11:54:33
21 we have the star in the center region of the 11:54:38
22 peripheral channel region. Correct? 11:54:42

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

99

1	A	That's correct, yes.	11:54:45
2	Q	Okay. So again, it's sort of in the star	11:54:45
3		has been pushed down one position between 22B and	11:54:49
4		22C. Correct?	11:54:53
5	A	It has moved there, yes.	11:54:55
6	Q	Right. And in Figure 22C, we now have a	11:54:56
7		new image, a triangle that was never been shown in	11:55:03
8		Figure 22B. Correct?	11:55:07
9	A	Yes, it's not on Figure 22B.	11:55:10
10	Q	Okay. So what Iwami is talking about is	11:55:12
11		kind of a domino reaction. When the teacher	11:55:15
12		selects a new video, in this case the triangle	11:55:21
13		video from a particular student or triangle image,	11:55:24
14		if you prefer, essentially what happens is	11:55:29
15		everything gets moved one position as between 22B	11:55:33
16		and 22C.	11:55:35
17		So the triangle now displaces the star	11:55:38
18		from the top position in the peripheral channel	11:55:40
19		region, moves it down one position to the center.	11:55:43
20		The smiley face goes from the center to the	11:55:46
21		bottom. The running horse goes from the bottom	11:55:48
22		into the middle region. And the cat is just	11:55:50

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

100

1 pushed off of the display altogether. Correct? 11:55:52

2 A That's what's represented on the figures. 11:55:57

3 I wouldn't say that that's -- that's Iwami's whole 11:56:01

4 disclosure, that that's how it always happens. 11:56:04

5 But that's what -- 11:56:07

6 Q But that's one way. Correct? 11:56:11

7 A That's one way, for sure. Obviously it's 11:56:11

8 here on this figure. 11:56:13

9 Q And that's what's described in Iwami. 11:56:14

10 Correct? 11:56:16

11 MR. STANFORD: Objection to form. 11:56:17

12 A If you point me to the specific 11:56:19

13 description of this in Iwami, in particular the 11:56:21

14 fact that it changes them in this particular 11:56:24

15 order, and I can confirm that, I would agree. 11:56:25

16 But generally speaking, that this is a 11:56:30

17 disclosure of the -- of the figure. So I agree 11:56:31

18 with this. I don't disagree. Like you have 11:56:33

19 something which has in the peripheral channel 11:56:35

20 region, which moves then to the -- to the main 11:56:37

21 middle channel region, and the other way around. 11:56:40

22 Yes. 11:56:44

101

IPR2025-01307; Samsung
Ex. 1048 - Page 102

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

102

1 using the control device 740, this domino effect 11:58:08
2 happens, and we get the change from 22B to 22C. 11:58:11
3 Correct? 11:58:14
4 MR. STANFORD: Objection. Form. 11:58:15
5 A That's -- that's what happened 11:58:19
6 eventually. The disclosure is that the control 11:58:22
7 device selects one -- a control mode of the source 11:58:24
8 devices. So at some point the control device will 11:58:28
9 select the source, the source device X, showing a 11:58:31
10 triangle, that that one should be displayed in the 11:58:37
11 peripheral channel region or something like that. 11:58:41
12 Q Okay. 11:58:42
13 A That's the communication mode set. 11:58:43
14 Q Right. So the student device whose -- 11:58:45
15 corresponds to the triangle, before the user at 11:58:53
16 the control device 740 has selected the triangle, 11:58:57
17 that triangle device, source device, was in 11:59:01
18 standby mode, not displaying video. And then when 11:59:05
19 it's selected, it turns into peripheral 11:59:08
20 transmission mode. Correct? 11:59:14
21 A Usually that's what happens, yes. 11:59:17
22 Q Right. Now, the star -- let me rephrase 11:59:19

1 that. 11:59:26

2 The source device corresponding to the 11:59:27

3 star in Figure 22B moves from the upper peripheral 11:59:30

4 channel region to the middle peripheral channel 11:59:39

5 region, but continues to be in the presentation 11:59:42

6 mode image transmission mode. Correct? 11:59:46

7 MR. STANFORD: Objection. Form. 11:59:53

8 A I would agree with the first part of your 11:59:54

9 statement, that the star moves from the upper 11:59:56

10 corner to the middle. So -- and this is in the 11:59:59

11 peripheral -- it continues to be in the peripheral 12:00:03

12 channel region. 12:00:05

13 Q Right. And all of the devices in the 12:00:06

14 peripheral channel region are transmitting at the 12:00:09

15 lower frequency. Right? 12:00:12

16 A Iwami says that they -- they should 12:00:15

17 transmit maybe in lower frequency just because 12:00:18

18 they don't need to such bandwidth to transmit 12:00:21

19 everything. 12:00:24

20 Q Exactly. 12:00:25

21 And so my point is, the star goes from 12:00:26

22 the upper peripheral channel region to the central 12:00:30

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

104

1 peripheral channel region but continues to 12:00:35
2 transmit video at the lower frequency, according 12:00:37
3 to Iwami. Correct? 12:00:40
4 MR. STANFORD: Objection. Form. 12:00:41
5 A It may continue to use the lower 12:00:43
6 frequency, yes. Again, this is something that 12:00:45
7 Iwami teaches should be in lower frequency. It 12:00:47
8 may change the frequency at some point, even if it 12:00:50
9 stays there in the peripheral channel. 12:00:53
10 Q Right. And then, for instance, if we 12:00:55
11 look at the running horse, in 22B it's in the 12:00:58
12 lower region of the peripheral channel region, but 12:01:05
13 then it moves in 22C to the central or the middle 12:01:08
14 channel region, 733. At that point the running 12:01:11
15 horse device, the running horse source device, is 12:01:15
16 going to switch from the lower frequency to the 12:01:19
17 higher frequency because the horse is now, in 12:01:24
18 Figure 22C, in the middle channel region. 12:01:27
19 Correct? 12:01:30
20 A That may happen. Although my 12:01:31
21 understanding of Iwami is that it's not -- that 12:01:33
22 was an example. You may want to transmit with 12:01:36

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

105

1 high frequency. Again, it's not something which 12:01:38
2 is mandatory, you have to switch the frequency 12:01:41
3 because you are going to -- to this. It could 12:01:44
4 happen, yes. 12:01:46
5 Q It could happen, doesn't have to? 12:01:47
6 A Yes. Yes. 12:01:49
7 Q Right? 12:01:50
8 A Yes. 12:01:50
9 Q Okay. All right. 12:01:50
10 So I think we actually understand each 12:02:00
11 other correctly as to how this works. 12:02:01
12 And when the running horse in the example 12:02:07
13 we talked about moves from the peripheral channel 12:02:11
14 region to the middle channel region, right -- I'm 12:02:14
15 going back now to Paragraph 304. Okay? It says 12:02:22
16 in Paragraph 304 that when the information, i.e., 12:02:33
17 the identification of a terminal, is received, the 12:02:38
18 sink device performs control such that the band of 12:02:41
19 the source device in which the switching 12:02:44
20 manipulation has been performed is increased or 12:02:47
21 decreased. 12:02:50
22 So, for instance, the band of the source 12:02:52

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

106

1 device, if we're talking about the running horse, 12:02:58
2 is going to go from the lower frequency band to 12:03:01
3 the higher frequency band. Right? 12:03:03
4 MR. STANFORD: Objection. Form. 12:03:06
5 A So it says -- this paragraph says what it 12:03:08
6 says, yes. So if the -- control device has 12:03:11
7 selected this one, the horse for presentation mode 12:03:15
8 and has set the mode in the source device as 12:03:19
9 presentation mode, eventually the sink device will 12:03:22
10 switch it to the center -- to presentation mode, 12:03:25
11 will switch to presentation mode and will present 12:03:29
12 the horse in the right side of the screen. 12:03:35
13 Q Okay. All right. I think we've got it. 12:03:37
14 We have a little bit of time before we have our 12:03:41
15 next hour break. So let me go to your Paragraph 12:03:42
16 94. Paragraph 94 of your declaration, excuse me, 12:04:14
17 Exhibit 2014. 12:04:17
18 A Okay. 12:04:19
19 Q Let me know when you're there. 12:04:30
20 A Yes, I'm there. 12:04:32
21 Q Oh, I'm sorry. Okay. So you say in 12:04:33
22 Paragraph 94 that "Iwami is wholly unconcerned 12:04:35

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

107

1 with temporary access control or organizational 12:04:38
2 security." 12:04:43
3 Do you see that? 12:04:43
4 A I see that, yes. 12:04:44
5 Q Does Iwami describe any temporary access 12:04:45
6 control? 12:04:52
7 A Temporary access control? So control 12:04:55
8 which is provided but then taken away from 12:04:58
9 somebody? 12:05:02
10 Q Yes. 12:05:03
11 A No. No. It -- no. 12:05:03
12 Q All right. Let's go to Paragraph 273 of 12:05:06
13 Iwami. 12:05:13
14 A Okay. Okay. Let me read it first so you 12:05:13
15 can ask the question and I can be prepared better. 12:05:29
16 Sorry. 12:05:32
17 Q Sure. 12:05:33
18 A Okay. 12:05:54
19 Q All right. You see the references to 12:05:54
20 time zones in Paragraph 273? 12:05:56
21 A Yes, I see that. 12:06:01
22 Q And the example there is, a user is given 12:06:01

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

108

1 permission or may not be given permission to some 12:06:06
2 user in a time zone in which a presentation or 12:06:11
3 conference of a highly confidential or a high 12:06:14
4 degree of importance has been set. 12:06:20
5 Do you see? 12:06:23
6 A Yes, I see that. Yes. 12:06:24
7 Q So isn't that a disclosure of either a 12:06:26
8 temporary access or temporary lack of access in 12:06:29
9 Iwami? 12:06:32
10 A Oh, it is different. It is different 12:06:35
11 than what '088 talks about. That's why I'm saying 12:06:38
12 that this is different. 12:06:41
13 I don't disagree that certain source 12:06:43
14 devices are -- are not allowed to present at some 12:06:48
15 point. But the situations that they are allowed 12:06:54
16 to present in general -- and this doesn't 12:06:58
17 change -- the fact that they are in different time 12:06:59
18 zone may restrict their access at this particular 12:07:03
19 moment, but they still have access to the system 12:07:07
20 in general. So that's what I'm saying. 12:07:09
21 It's not -- it's not an access that's 12:07:12
22 provided right now, but then he moved so that they 12:07:13

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

109

1	can never connect again unless allowed.	12:07:16
2	So that's a -- that's a source device	12:07:22
3	changing like the time or something could still	12:07:26
4	access, being in a different time zone could still	12:07:29
5	access.	12:07:32
6	Q What's your understanding of time zone?	12:07:32
7	Do you think they're talking about like	12:07:37
8	eastern time zone versus Pacific time zone?	12:07:39
9	A Presumably that's what they mean, yes.	12:07:43
10	So yes.	12:07:45
11	Q So if there's an important meeting, what	12:07:45
12	you think this paragraph is about is I'm going to	12:07:49
13	let people in the Pacific time zone come into the	12:07:51
14	meeting, but not people in the eastern time zone?	12:07:54
15	A Is there any other -- like this	12:07:57
16	particular paragraph talks about time zone, and	12:07:59
17	that's what I read it. If there is anything else	12:08:03
18	which explains the time zone that can draw	12:08:05
19	different conclusions, can you point me to it?	12:08:09
20	Off the top of my head I don't remember anything	12:08:12
21	else. I remember they were talking about like	12:08:14
22	out -- outside of like -- outside of the room, and	12:08:16

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

110

1 that's why I would assume that time zone here is a 12:08:20
2 different time zone. 12:08:23
3 Q All right. So you mentioned the outdoor 12:08:24
4 issue. Let's go to Paragraph 407 of Iwami. 12:08:33
5 A 407. Yes, I'm there. Yes. 12:08:39
6 Q And again, the context of these questions 12:08:47
7 is your assertion in Paragraph 94 of your 12:08:51
8 declaration that Iwami is wholly unconcerned with 12:08:53
9 temporary access control or organizational 12:08:57
10 security. Okay? 12:09:00
11 Does Paragraph 407 discuss organizational 12:09:03
12 security or temporary access control? 12:09:08
13 MR. STANFORD: Objection. Form. 12:09:10
14 A It doesn't, from the same view of the 12:09:14
15 '088 patent. It's not -- it's not access control. 12:09:17
16 It's not really permission in the same sense as 12:09:20
17 the '088 patent. 12:09:25
18 Q Well, I see the words in parentheses in 12:09:27
19 the middle of Paragraph 407 that says, "permission 12:09:30
20 or nonpermission." How is that different than 12:09:33
21 this permission or nonpermission that's discussed 12:09:37
22 in the '088 patent? 12:09:39

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

111

1 A So let me -- let me read the -- the whole 12:09:42
2 paragraph, and then -- then I can respond to the 12:09:46
3 questions. 12:09:49
4 Q Sure. 12:09:50
5 A So this particular permission here in 407 12:10:56
6 is related to how they are used, can the user 12:10:59
7 connect to the system if it is outdoors, somewhere 12:11:03
8 from an external access point. Sometimes it's the 12:11:05
9 system in general, can it connect through there. 12:11:09
10 Obviously this particular user -- user 12:11:12
11 device has access to the system. It's -- and if 12:11:15
12 that same user or source device is in the room, it 12:11:19
13 can access the system. 12:11:23
14 But if it is outside of the room, this is 12:11:25
15 more or less like a control -- let me refer to 12:11:28
16 my -- my declaration about this. Because I 12:11:32
17 explain my -- my opinion about this. 12:11:36
18 Q Yeah. And just to help you, we were 12:11:39
19 looking at Paragraph 94 of your declaration. 12:11:41
20 A Thank you. Just give me one second. 12:11:44
21 That particular thing for the outdoor use 12:12:23
22 permission I discuss in Paragraph 117 of my 12:12:25

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

112

1 declaration. So there I explain what exactly I 12:12:28
2 mean with permission information, et cetera. And 12:12:31
3 I can read it to you. 12:12:34
4 Iwami -- in Paragraph 117, I say, "Iwami 12:12:36
5 defines outdoor use permission as permission 12:12:40
6 information indicating whether or not the 12:12:43
7 connection with the information processing device 12:12:46
8 730 via the access point other than the access 12:12:48
9 point 701 or the base station is permitted, which 12:12:51
10 is routing or location parameter tied to an 12:12:56
11 access-point device, not a gate that enables or 12:12:59
12 disables the second terminal's ability to connect 12:13:02
13 to and use the communication device." 12:13:05
14 So that's what I meant when I told you, 12:13:08
15 in my opinion this is not a restriction to use the 12:13:09
16 system per se. It's -- it's a location-based 12:13:12
17 parameter. You cannot use the system if you are 12:13:17
18 not connected to this particular access point. 12:13:19
19 But if you are connected to this particular access 12:13:21
20 point, you can still use the system. 12:13:23
21 Q Okay. And you think that means that 12:13:26
22 Iwami is wholly unconcerned with temporary access 12:13:34

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

113

1 control or organizational security, even though 12:13:37

2 Iwami is talking about allowing users who are 12:13:39

3 outside of the room to get access or not? 12:13:44

4 A From the perspective of the '088 claim -- 12:13:48

5 claims, the way I read them, Iwami's wholly 12:13:51

6 unconcerned with this particular implementation 12:13:56

7 of -- and this particular disclosure that a source 12:14:00

8 device can be given short-term access to the 12:14:05

9 system, and then that access can be taken away. 12:14:10

10 So from that perspective, Iwami just talks about 12:14:15

11 location. If you're not in the room, you cannot 12:14:19

12 connect. Okay? It's all the same. You're still 12:14:21

13 a member of the -- of the group. If you go 12:14:23

14 outside, you cannot connect. That's okay. But 12:14:29

15 you're still a member of the group. 12:14:31

16 So that's why I'm saying that it is 12:14:32

17 wholly unconcerned from that perspective. 12:14:34

18 Q Okay. So from Iwami we have a teacher in 12:14:38

19 a classroom who's got a number of students in the 12:14:40

20 classroom. Now, if we're talking about a high 12:14:44

21 school, a secondary school, right, it's typical in 12:14:48

22 those situations that when one class is over, the 12:14:52

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

114

1 students leave that room and a new group of 12:14:55
2 students come in. Right? 12:14:57
3 A Should be normal, yes. 12:15:00
4 Q Right. Okay. 12:15:01
5 So do you think in Iwami's system that 12:15:05
6 any student anywhere in the school is going to be 12:15:08
7 able to start transmitting video in that teacher's 12:15:12
8 classroom? 12:15:16
9 A Hopefully not; otherwise the system 12:15:17
10 wouldn't -- wouldn't work. Correct. 12:15:19
11 Q So that would be sort of temporary access 12:15:21
12 control. Right? That the student when he's in 12:15:23
13 the classroom can access the system. When the 12:15:25
14 student leaves the classroom, that student cannot. 12:15:27
15 Right? 12:15:30
16 MR. STANFORD: Objection. Form. 12:15:32
17 A Well, is that student part of the system? 12:15:35
18 Like has it been accepted to the group and is he 12:15:38
19 there like the next time he enters the system, the 12:15:43
20 room, would they be able to access the same 12:15:48
21 network again, the same system again? That's what 12:15:50
22 I mean. 12:15:52

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

115

1 The system works in a specific way. If 12:15:54
2 you are connected to the access point and you're 12:15:56
3 part of the group, then you can -- you can 12:16:00
4 transmit, so there is nothing restricting you from 12:16:02
5 doing it. If you go outside of the room, then you 12:16:05
6 cannot do that because you're trying to connect 12:16:08
7 through a different access point or something like 12:16:10
8 that. 12:16:12
9 So it's a setting in the system. It is 12:16:12
10 not really authorization to do this in our -- in 12:16:14
11 general. 12:16:21
12 Q In Iwami the student can't transmit 12:16:21
13 whenever he wants to. Right? The student has to 12:16:23
14 be selected by the teacher and, for instance, 12:16:27
15 placed into the peripheral channel region that 12:16:29
16 eventually moved into the middle channel region 12:16:30
17 before. But at a minimum, the student doesn't 12:16:32
18 transmit until he's in the presentation region -- 12:16:36
19 I'm sorry. The student device does not transmit 12:16:43
20 video until the teacher has placed the student 12:16:45
21 device into the peripheral channel region 734. 12:16:48
22 Correct? 12:16:52

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

116

1 MR. STANFORD: Objection. Form. 12:16:53

2 A That's not necessary. I think you read 12:16:54

3 it that this could happen from the source device, 12:16:56

4 from the -- from the control device, or from the 12:16:58

5 sink device, any of those can actually make the 12:17:01

6 student present. So not necessary from the 12:17:04

7 control device. 12:17:07

8 Q That's absolutely right. Some 12:17:07

9 embodiments use different mechanisms. But Iwami 12:17:09

10 doesn't say that every embodiment uses all 12:17:12

11 periphery. Right? There are some embodiments in 12:17:16

12 Iwami that use B1, some that use B2, some that use 12:17:19

13 B3, some that use all of them. 12:17:23

14 But in some embodiments the teacher is 12:17:25

15 going to be in control of who is transmitting. 12:17:27

16 Right? 12:17:30

17 A Isn't that already disclosed in 12:17:30

18 Embodiment 2, the one that we were discussing? 12:17:32

19 Like B1, B -- I just remember because we just 12:17:35

20 discussed that this was all in Embodiment 2. So I 12:17:38

21 assume they are relevant in Embodiment 2. Correct 12:17:39

22 me if I am wrong. 12:17:42

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

117

1 In any case, that embodiment obviously 12:17:43
2 discloses a situation in which each of these 12:17:46
3 devices can actually decided that they want to 12:17:49
4 present. If that's the case, then I don't see the 12:17:52
5 control. I don't see really the control that 12:17:54
6 somebody has to -- to implement so that the -- the 12:17:57
7 student can -- can present something. 12:18:03
8 Q Okay. So I will tell you, you are 12:18:07
9 correct that when we talked about B1, B2, and B3, 12:18:10
10 they were all mentioned and described in the part 12:18:14
11 of the -- of Iwami that's talking about Embodiment 12:18:16
12 2. Okay? 12:18:19
13 A Okay. 12:18:21
14 Q All right. So let me ask you, 12:18:21
15 Dr. Pachamanov, if you were implementing Iwami's 12:18:24
16 system and you were doing it in a high school, 12:18:29
17 would you want to give the students the ability to 12:18:31
18 start transmitting whenever the heck -- whenever 12:18:33
19 any one of them wanted to, regardless of what the 12:18:35
20 teacher wanted? 12:18:38
21 MR. STANFORD: Objection. Form. 12:18:39
22 A You are asking me a hypothetical 12:18:40

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

118

1 question. Would I build the system the way it is 12:18:41
2 built? I don't know. It really depends on the 12:18:44
3 specific situation. 12:18:46
4 The fact is that Iwami teaches that all 12:18:48
5 these are possibilities, so -- 12:18:51
6 Q They are all -- 12:18:53
7 A If I'm reading this as someone who is 12:18:54
8 implementing a system, I would definitely assume 12:18:56
9 the specific situation. And in the specific 12:18:58
10 situations that I have a class of people who are 12:19:01
11 really nice and they don't do bad things, I would 12:19:03
12 definitely give them the permission to implement 12:19:05
13 the system to do that. 12:19:09
14 But I don't know. 12:19:10
15 Q What if you were -- 12:19:13
16 A Hypothetically, I don't know. 12:19:14
17 Q So what if you're in a situation you're 12:19:16
18 in a high school and you had a bunch of wise-guy 12:19:18
19 students; would you then want to give that 12:19:21
20 permission to those students? Let me ask it 12:19:23
21 another way. 12:19:25
22 If you were a person of ordinary skill in 12:19:26

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

119

1 the art and you were implementing this for a high 12:19:28
2 school, and I will say an American high school, 12:19:30
3 which is not exactly known for good behavior, 12:19:32
4 would you implement the system in that way? 12:19:34
5 MR. STANFORD: Objection. Form. 12:19:36
6 A It really depends. And this is 12:19:39
7 hypothetical. Would I or would I not doesn't 12:19:40
8 matter. There is a disclosure there which says 12:19:43
9 clearly that this is -- these are the three ways 12:19:45
10 that you can do it. And if I'm trying to build a 12:19:48
11 system and I'm reading this as a person of 12:19:50
12 ordinary skill in the art, I would -- I would also 12:19:53
13 see the benefits of having each of them be able to 12:19:55
14 control everything. 12:19:58
15 And let's step back and look at it from 12:20:00
16 the perspective that Iwami was talking about 12:20:03
17 Miracast from the very beginning. So more or less 12:20:05
18 it's like presenting what you have on your screen 12:20:07
19 to another screen. 12:20:09
20 So the system in Iwami is actually 12:20:10
21 something which -- which is expanding on that. It 12:20:12
22 allowed you to have multiple devices presenting on 12:20:15

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

120

1	one screen. So from that perspective, it could be	12:20:18
2	beneficial that each of the devices is able to	12:20:20
3	select and present together with the others.	12:20:27
4	Again, like you are asking a very strict	12:20:30
5	hypothetical. If I have somebody could ask	12:20:33
6	something really bad, would I do that. It's	12:20:37
7	hypothetical.	12:20:39
8	Q I can tell by the way you were smiling	12:20:39
9	earlier that you would agree with me that it would	12:20:41
10	be obvious to a person of skill in the art to	12:20:44
11	implement a system as taught in Iwami where the	12:20:47
12	option that the student can start transmitting	12:20:48
13	whenever he or she wants to would not be	12:20:50
14	implemented.	12:20:53
15	Wouldn't you agree that would be obvious	12:20:53
16	to a POSITA?	12:20:55
17	MR. STANFORD: Objection. Form.	12:20:58
18	A I wouldn't -- I wouldn't agree it's	12:20:59
19	obvious.	12:21:01
20	I would agree that Iwami discloses, like,	12:21:02
21	different possibilities. And the system obviously	12:21:06
22	supports all these.	12:21:12

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

121

1 I would -- as a person of ordinary skill 12:21:12
2 in the art, I would just think, Wow, there are 12:21:15
3 many benefits of implementing the system allowing 12:21:18
4 you to do all these things. So from that 12:21:20
5 perspective, I wouldn't say, Well, a person would 12:21:22
6 definitely decide to implement it in a specific 12:21:26
7 way which limits everything from the disclosures 12:21:29
8 of Iwami. 12:21:31
9 Q I am going to guess you have never tried 12:21:33
10 to design a system like this for a high school, 12:21:35
11 have you, sir? 12:21:37
12 MR. STANFORD: Objection. Form. 12:21:38
13 A I haven't designed a system like this for 12:21:39
14 a high school. I haven't worked with high 12:21:41
15 schools, so no. 12:21:43
16 Q Okay. 12:21:44
17 MR. HEINTZ: We've been going more than 12:21:45
18 an hour. Would you like to take a break for lunch 12:21:46
19 now? 12:21:48
20 THE WITNESS: Sure. Yes. 12:21:49
21 MR. HEINTZ: Okay. Why don't we go off 12:21:51
22 the record. 12:21:52

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

122

1 VIDEO SPECIALIST: Stand by. 12:21:53

2 We're now going off the video record. 12:21:54

3 The time is 12:21 p.m. 12:21:57

4 (A recess was taken.) 12:22:00

5 VIDEO SPECIALIST: We are now back on the 13:15:46

6 video record. The time is 1:15. 13:15:59

7 BY MR. HEINTZ: 13:16:02

8 Q Hi, Dr. Pachamanov. Welcome back. 13:16:03

9 A Hello. 13:16:05

10 Q Sir, during our lunch break did you talk 13:16:06

11 to anybody about the subject matter of this 13:16:08

12 deposition, including talking by electronic means 13:16:10

13 or any other form of communication? 13:16:13

14 A No, I did not. 13:16:15

15 Q Okay. Sir, I'm going to ask you to turn 13:16:16

16 to Paragraph 97 of your declaration. 13:16:20

17 A Okay. Yes. 13:16:25

18 Q Okay. You say there in the first 13:16:33

19 sentence, Iwami's architecture lacks any teaching 13:16:34

20 of a trust hierarchy. 13:16:37

21 Do you see that? 13:16:39

22 A I see that, yes. 13:16:42

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

123

1	Q	The third sentence of that paragraph	13:16:43
2		reads, "All source devices in Iwami are	13:16:53
3		functionally equivalent peers-there is no concept	13:16:56
4		of internal versus external users."	13:16:58
5		Do you see that?	13:17:01
6	A	I see that, yes.	13:17:03
7	Q	In Iwami's system, is there a device that	13:17:03
8		has a hierarchical relationship with other	13:17:10
9		devices?	13:17:13
10	A	I think I clearly stated it here in this	13:17:21
11		part of my declaration that I perceive the	13:17:23
12		disclosure of Iwami as all devices are more or	13:17:28
13		less equivalent. They can do, they can perform	13:17:31
14		the functions of each of the other devices.	13:17:33
15		And Iwami teaches this explicitly a	13:17:35
16		number of times, in a number of places. So maybe	13:17:39
17		sometimes in certain scenario one of the devices	13:17:45
18		acts differently, but there is no specific	13:17:47
19		disclosure that specific devices of that type and	13:17:53
20		it cannot do anything else.	13:17:59
21	Q	Well, the control device is different	13:18:00
22		from a source device. Right?	13:18:02

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

124

1	A	The control device is one of the devices	13:18:04
2		which I think in Figure 17, if you look at it --	13:18:07
3		I'm just referring to that figure because we	13:18:18
4		discussed it previously.	13:18:19
5		It just shows that it's -- it's another	13:18:25
6		device that is connected similarly to everyone	13:18:27
7		else. Yes, Iwami talks about specific	13:18:31
8		functionalities that can be implemented there.	13:18:34
9		But as we saw throughout the discussion today,	13:18:36
10		those functionalities can be implemented in -- in	13:18:39
11		the source device or in the sink device as well.	13:18:42
12	Q	Well, that's not true of all of the	13:18:46
13		functionality in the control device, is it?	13:18:50
14	A	I wouldn't qualify it if there are all	13:18:52
15		the functionalities or some of the	13:18:55
16		functionalities. But in general what I meant by	13:18:58
17		this in my declaration is that, first of all, I	13:19:01
18		pointed to the fact that all source devices are	13:19:07
19		functionally equivalent peers. I focus on the	13:19:10
20		source device here. And then what we have the 740	13:19:12
21		control device is another kind of device that can	13:19:22
22		do additional things, according to Iwami.	13:19:24

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

125

1	Q	And the 740 device is higher in the	13:19:26
2		hierarchy than the control -- sorry, than the	13:19:30
3		source devices, such as 710 and 720, isn't it?	13:19:33

4	A I wouldn't qualify it as hierarchy.	13:19:39
5	Although I would agree that it -- Iwami teaches	13:19:41
6	implementing certain functionalities that -- that	13:19:45
7	are specific for that particular device.	13:19:49

8 Q And it's called a control device, which 13:19:50

9 means it controls the other devices. Right? 13:19:53

10	A My belief is that the whole concept of	13:19:58
11	Iwami is to -- to present there could be control	13:20:00
12	in these kind of devices that otherwise just	13:20:06
13	plainly displaying something on -- in the same	13:20:09
14	device according to the standard Miracast	13:20:11
15	protocol.	13:20:14

16 So there is control, yes. 13:20:15

17 Q And in particular, a control device has 13:20:16

18 group management information and controls group 13:20:21

19 management, doesn't it? 13:20:24

20	A One of the functionalities that can be	13:20:27
21	implemented in the control device is for	13:20:30
22	management, yes, who belongs to the group.	13:20:32

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

126

1 Q So the control device decides who's going 13:20:35
2 to be in the group and who's not going to be in 13:20:37
3 the group. Right? 13:20:40
4 A Not necessarily. 13:20:41
5 Q Okay. What else -- 13:20:42
6 A We have -- I have seen disclosures in 13:20:44
7 Iwami which actually disclose source devices 13:20:46
8 connecting to the system through approaching the 13:20:52
9 sink device. So how -- how the control device can 13:20:55
10 control this thing. And there are examples like 13:21:00
11 that. I can look at this thing and find that, if 13:21:03
12 you want. 13:21:05
13 Q Yeah, I'd like to see that. 13:21:05
14 A Okay. If you give me a second, I'm 13:21:07
15 looking real quickly at Iwami. 13:21:12
16 Okay, so I'm looking at the third 13:21:52
17 embodiment which is on, sorry, Column -- actually, 13:21:54
18 it's Paragraph 437 of Iwami. 13:21:59
19 Q Give me one moment, I'll get there. 13:22:05
20 Okay. I have it. 13:22:10
21 A So that particular paragraph in the third 13:22:11
22 embodiment of Iwami states, "In the third 13:22:14

1	embodiment of the present technology, an example	13:22:18
2	in which the group authentication between the	13:22:19
3	source device and the sink device starts using the	13:22:23
4	near field communication will be described. For	13:22:26
5	example, the group authentication can start using	13:22:27
6	a WiFi Direct over NFC protocol or a WiFi Direct	13:22:29
7	using NFC protocol. For example, the group	13:22:33
8	authentication can be initiated by the source	13:22:36
9	device having the NFC function touching the sink	13:22:38
10	device having the NFC function directly."	13:22:43

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11         So I read this as, the source device can          13:22:47
12     initiate connecting to the system by approaching      13:22:50
13     the sink device.                                       13:22:54

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14 Q Sure. And when the source device 13:22:55
15 approaches the sink device, there is going to be 13:22:58
16 an authentication process that's performed. 13:23:01

17 Right? 13:23:03

18 A There will be, yes.

13:23:03

19	Q	Right. And what controls whether a	13:23:04
20		source device is going to pass that authentication	13:23:09
21		procedure or not?	13:23:12

22 A So I need to refer back to the -- to 13:23:15

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

128

1 Iwami or look at my declaration. Because I 13:23:18
2 reviewed this, and I have a discussion about it. 13:23:20
3 Q Okay. I can tell you where I think 13:23:25
4 you'll find the answer in Iwami if you want that, 13:23:31
5 or you can do wherever you want. 13:23:33
6 A Give me a hint. I'll check if that's 13:23:37
7 what I want. 13:23:39
8 Q How about Paragraph 265 of Iwami. 13:23:40
9 A Okay. 13:23:43
10 Q And that concerns Figure 20. 13:23:43
11 A 265. That's not what I meant. So 13:23:59
12 Paragraph 265 is relevant to Embodiment 2, which 13:24:01
13 talks about the specific system that has the 13:24:03
14 control device, and like many of the things there. 13:24:13
15 Embodiment -- Embodiment 3 that I was pointing out 13:24:15
16 to has something different, which is like adding 13:24:17
17 somebody to the group based on near field 13:24:22
18 communication directly. As -- 13:24:25
19 Q How about 464? Try that. 13:24:27
20 A Which one? Sorry? 13:24:31
21 Q Four six four, sir. 13:24:32
22 A Four six four. 13:24:34

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

129

1 Okay, yeah, this refreshes my mind, yes. 13:25:24

2 So here again the 740 is involved in the whole 13:25:29

3 process. 13:25:33

4 Q Okay. So it's the device 740 that 13:25:34

5 determines whether someone's going to be able to 13:25:38

6 be a part of a group and communicate with the 13:25:39

7 system or not. Correct? 13:25:42

8 A Device 740 comprises information that is 13:25:45

9 used for that. 13:25:48

10 Q Okay. 13:25:49

11 A Let's put it this way. 13:25:50

12 Q And that's -- in that sense, device 740 13:25:51

13 is just like terminal 1 of the claim in the '088 13:25:54

14 patent, where it's the device 740 that's going to 13:25:58

15 give the permission or allow the other devices, 13:26:01

16 the source device -- sorry, a source device is 13:26:05

17 710, et cetera, to participate in the system or 13:26:09

18 not. Right? 13:26:11

19 A I disagree with this statement. The 13:26:12

20 reason I disagree is because in the '088 patent, 13:26:14

21 the device terminal 1, the first terminal is the 13:26:18

22 active gatekeeper, more or less. That's the one 13:26:25

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

130

1	that initiates the whole process.	13:26:27
2	So it's the user of terminal -- the first	13:26:29
3	terminal decides that, like a second terminal	13:26:33
4	should be connected to the network. It transfers	13:26:39
5	the information necessary for that connection	13:26:42
6	to -- to the second terminal, informs the	13:26:45
7	communication device about it, and more or less	13:26:49
8	triggers the whole process and provides	13:26:53
9	authorization for that.	13:26:55
10	Here I see it differently. The control	13:26:56
11	device in Iwami comprises this table which will	13:27:00
12	assess if -- I wouldn't qualify it as a table, but	13:27:05
13	it has the information in that device has already	13:27:08
14	been added to the group and that follows. Like	13:27:11
15	somebody approaches the sink device, tries to	13:27:16
16	connect to the sink device, and it manages to	13:27:18
17	connect if it's already there.	13:27:21
18	Q So the ability of the source devices to	13:27:23
19	communicate with the system depends on the	13:27:30
20	information that's stored in the control device.	13:27:32
21	Right?	13:27:35
22	MR. STANFORD: Objection. Form.	13:27:36

131

IPR2025-01307; Samsung
Ex. 1048 - Page 132

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

132

1 Q I'm -- 13:28:38

2 A Otherwise, nonetheless -- go ahead. 13:28:40

3 But -- 13:28:41

4 Q I'm sorry. I want you to finish your 13:28:41

5 answer. 13:28:43

6 A No. No. No. I -- go ahead with the 13:28:43

7 question. 13:28:46

8 Q Nonetheless, it's the information in the 13:28:46

9 control device that is determinative of whether or 13:28:48

10 not the other devices are going to be allowed to 13:28:51

11 participate in the system. And in that sense, the 13:28:53

12 control device is higher in the hierarchy that 13:28:56

13 includes the entire system. It's higher than the 13:29:01

14 other source devices in the system. Correct? 13:29:05

15 MR. STANFORD: Objection. Form. 13:29:08

16 A I wouldn't -- I wouldn't qualify it as a 13:29:09

17 higher in the hierarchy. Just from the 13:29:12

18 perspective that it is a device who has a 13:29:13

19 different functionality. So is it in the 13:29:16

20 hierarchy higher than the other ones? Well, in 13:29:20

21 specific situation it could be higher. But in 13:29:24

22 this particular case it's another device which 13:29:26

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

133

1 implements specific functionality. 13:29:31

2 Q Okay. Let's go to Paragraph 100 of your 13:29:35

3 declaration. 13:29:47

4 A Of my declaration? 13:29:47

5 Q Yes, your declaration. 13:29:48

6 A Okay. 13:29:49

7 Q There it says, "This is group-level 13:29:56

8 access control performed by the sink device and 13:29:59

9 existing group members-not a permission granted by 13:30:03

10 one designated gatekeeper terminal to another 13:30:08

11 based on a trust hierarchy, as described by the 13:30:10

12 '088 patent." 13:30:13

13 Right? 13:30:14

14 A Yes, that's what Paragraph 100 reads. 13:30:15

15 Q Does the group information come from the 13:30:18

16 control device, as we've just been discussing? 13:30:20

17 A So let me refer back to the previous 13:30:24

18 paragraph, 99 the of my declaration, which 13:30:26

19 actually cites to something from Iwami, which 13:30:31

20 informs my opinion later also. So let me just -- 13:30:34

21 give me a second to review this and to check -- 13:30:37

22 check Iwami for that particular thing. And then 13:30:43

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

134

1 I'll come back to your question. 13:30:44

2 Q Okay. 13:30:46

3 A Okay. So Paragraph 99 more or less 13:32:06

4 explains the conclusion I make in Paragraph 100. 13:32:09

5 So Paragraph 99 of my declaration more or less 13:32:13

6 refers to the mechanism disclosed in the '088 13:32:16

7 patent, which is more or less the active step of 13:32:21

8 terminal 1, the first terminal requesting access 13:32:28

9 and providing access to -- to the second terminal 13:32:32

10 to the system. 13:32:35

11 And here is what I say. Iwami does 13:32:36

12 not -- has no analogous mechanism. This is in 13:32:40

13 Paragraph 99. "In Iwami, a source device simply 13:32:43

14 activates an application that is installed in 13:32:46

15 advance, and transmits a connection request to the 13:32:48

16 sink device ... via a specific access point." 13:32:50

17 This reference to Paragraph 329 from Iwami. "The 13:32:54

18 sink device then performs a group authentication 13:32:59

19 process in which it is determined whether or not 13:33:03

20 the manipulation of the user for giving the 13:33:05

21 permission to the information processing device 13:33:07

22 710 has been performed in any one of the source 13:33:11

1 device, the sink device, and the control device 13:33:14

2 740 that belong to the same group. 13:33:17

3 "This is group level access control 13:33:21

4 performed by the same device and existing group 13:33:23

5 members-not a permission granted by one designated 13:33:28

6 gatekeeper terminal to another based on a trust 13:33:30

7 hierarchy, as described by the '088 patent." 13:33:33

8 If I had to paraphrase what -- paraphrase 13:33:38

9 here, the difference as I see it is that there is 13:33:40

10 a request coming from the source device, then the 13:33:47

11 sink device just checks if that -- that device is 13:33:50

12 already added to the list. And that's -- that's 13:33:53

13 more or less the permission that -- that is 13:33:57

14 checked. 13:33:59

15 From that perspective, this is a 13:34:01

16 different mechanism. 13:34:03

17 Q Different mechanism in Claim 1 -- 13:34:07

18 A From the -- from Claim 1, yes. 13:34:13

19 Q -- of the '088 patent? 13:34:14

20 A Yes. Of the '088 patent in general. 13:34:16

21 Q Why is it different? Is it because the 13:34:19

22 source device is requesting the permission to join 13:34:21

1 the network? Is that the difference that you 13:34:24
2 think distinguishes the two? 13:34:26
3 MR. STANFORD: Objection to form. 13:34:27
4 A Not necessarily. The way I see it is 13:34:28
5 that there is no really enactive first terminal 13:34:31
6 which actually requires that a request -- a 13:34:35
7 request that this second terminal should be added 13:34:40
8 to the system, should be added to that. 13:34:43
9 Q Do you think that Claim 1 requires the 13:34:46
10 first terminal to request that the second terminal 13:34:48
11 be added to the system? 13:34:53
12 A Well, Claim 1 has many claim limitations. 13:34:56
13 So when you read all of them, you don't focus in 13:35:02
14 isolation to any of them. That's the view I have. 13:35:05
15 You have first terminal, which more or less is the 13:35:08
16 one that triggers the whole process for 13:35:11
17 authorizing certain second terminal to access the 13:35:16
18 system, and then communicates to -- to the 13:35:18
19 communication device providing information about 13:35:23
20 this, communicates to the second terminal to 13:35:26
21 provide the necessary information to connect to 13:35:28
22 the network, et cetera. 13:35:33

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

137

1 So -- 13:35:34

2 Q What is -- 13:35:35

3 A Yeah. Go ahead. 13:35:36

4 Q Sorry. Please. I thought you were done. 13:35:36

5 So please finish. 13:35:38

6 A No, I'm done. I'm done. So you 13:35:39

7 interrupted me at the right moment. 13:35:41

8 Q Great. So I don't see where in Claim 1 13:35:43

9 it says that the first terminal has got to 13:35:46

10 initiate this process. 13:35:50

11 Where, what limitation, in all of the 13:35:51

12 limitations in Claim 1, says that terminal 1 has 13:35:53

13 got to be the one that starts this process of 13:35:57

14 allowing terminal 2 to start displaying video? 13:35:59

15 A So let me refer back to Claim 1 then from 13:36:04

16 the '088 patent. 13:36:08

17 Q Okay. 13:36:12

18 A So I just read more carefully Claim 1. 13:36:53

19 So the specific thing that provides this 13:36:59

20 conclusion, the specific claim limitation, is -- 13:37:02

21 just give me a second. I found it and I just lost 13:37:11

22 it again. Let me just look at it again. 13:37:14

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

138

1 Q Yeah, I think you might be talking about 13:37:16
2 Column 27 and about Line 63 where they're talking 13:37:19
3 about permission from the first communication 13:37:22
4 terminal. 13:37:25

5 A Right. So yes, this in light of the 13:37:26
6 specification in the patent would -- and the 13:37:27
7 disclosure there would -- would make me consider 13:37:31
8 that, yes, the first terminal is more or less the 13:37:36
9 gatekeeper. That's the one that -- that performs 13:37:38
10 the -- performs all these actions. 13:37:41

11 Q Well, I understand that the first 13:37:44
12 terminal is the gatekeeper, in the sense that the 13:37:46
13 first terminal must give permission. But I 13:37:48
14 understood you to be saying something a little 13:37:51
15 different from that. 13:37:53

16 I understand you to be saying that it's 13:37:54
17 the first terminal that's got to initiate the 13:37:56
18 whole transaction; in other words, the claim would 13:37:58
19 not cover a situation where the second terminal, 13:38:01
20 which is the person's terminal from outside the 13:38:05
21 network -- the organization, right, Claim 1 13:38:08
22 wouldn't cover the situation where the second 13:38:12

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

139

1 terminal comes in and asks the first terminal for 13:38:14
2 permission, and then in response to that request 13:38:17
3 the first terminal provides the permission. 13:38:19
4 Do I understand your interpretation of 13:38:22
5 Claim 1 correctly? 13:38:24
6 A So -- 13:38:26
7 MR. STANFORD: Objection. Form. 13:38:26
8 A -- instead of trying to go back to what 13:38:28
9 exactly I said, like just because it's hard to 13:38:31
10 just go back to the specific words that I used, I 13:38:36
11 will prefer to go back to my declaration. 13:38:38
12 And my declaration explains exactly what 13:38:45
13 I meant by this, by everything said in Paragraph 13:38:48
14 100. 13:38:52
15 So starting with Paragraph 98 in my 13:38:52
16 declaration, I say that the '088 patent recites a 13:38:58
17 second communication terminal configured to, if 13:39:06
18 having permission from the first communication 13:39:09
19 terminal, establish a connection with the 13:39:11
20 communication device to use a communication 13:39:13
21 device. 13:39:13
22 So that's why I point to this specific 13:39:13

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

140

1 claim limitation. 13:39:15

2 And then I explain here further, The 13:39:16

3 specification describes multiple helpful examples 13:39:18

4 of this mechanism, including short-range 13:39:20

5 communication, which is more or less how terminal 13:39:23

6 1 provides the permission to terminal 2. 13:39:26

7 Short-range communication via NFC of permission 13:39:34

8 information between the terminal 1 and terminal 2 13:39:36

9 for the connection to and use of the projector 3 13:39:38

10 by the terminal 2, and the terminal 1 transmits 13:39:42

11 connection information including the SSID and 13:39:45

12 password to terminal 2. Each of these examples 13:39:49

13 involves the first terminal actively enabling the 13:39:53

14 second terminal access. 13:39:56

15 So that's what I meant. 13:39:57

16 Q Okay. 13:40:00

17 A I -- 13:40:01

18 Q I'm sorry. I did it again. Go ahead. 13:40:01

19 A You are interrupting me at the right 13:40:06

20 place. It's just I'm almost there to finish. 13:40:08

21 So that's what I meant. So this 13:40:10

22 paragraph more or less explains exactly what I 13:40:12

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

141

1 meant by this. This particular claim limitation, 13:40:14
2 I read it as terminal 1 provides a -- there is a 13:40:19
3 specific mechanism that involves terminal 1 and 13:40:27
4 terminal 2 in a way that terminal 2 gets in the 13:40:29
5 end access to -- to the system. 13:40:35
6 Q Okay. So the last part of Paragraph 98 13:40:35
7 that you read says, Each of these examples 13:40:40
8 involves the first terminal actively enabling the 13:40:44
9 second terminal's access. Right? 13:40:47
10 A That's correct, that's what it says. 13:40:49
11 Q Now, there's two possibilities. One 13:40:50
12 possibility is terminal 1 transmits the permission 13:40:53
13 without being prompted, without being solicited. 13:40:57
14 The second possibility is that terminal 1 13:41:00
15 transmits the permission after being requested for 13:41:03
16 permission by terminal 2. 13:41:07
17 Both of those scenarios involve terminal 13:41:09
18 1 actively enabling the second terminal's access, 13:41:12
19 but they're different. Like I said in the first 13:41:15
20 example, terminal 1 provided that enablement, that 13:41:18
21 permission, without being requested. And in the 13:41:22
22 second example there was a request for the 13:41:24

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

142

1 permission. 13:41:27

2 I'm asking you for your opinion as to 13:41:29

3 whether both of those scenarios are covered by 13:41:32

4 Claim 1 or not? 13:41:35

5 MR. STANFORD: Objection. Form. 13:41:37

6 A Well, a person of ordinary skill in the 13:41:40

7 art, reading this claim, would understand that if 13:41:44

8 the permission is provided by the -- by the first 13:41:51

9 terminal, then it can establish connection. So, 13:41:56

10 and that said, like, are both scenarios possible? 13:42:02

11 That's an analysis that I have to do right now. 13:42:08

12 Like, I haven't been into -- go into the details 13:42:11

13 of this in particular. 13:42:15

14 The way I see it is that you have 13:42:16

15 terminal 1 which transmits the way the 13:42:19

16 specification teaches it. Terminal 1 initiating 13:42:22

17 this by transmitting this information. And then 13:42:25

18 terminal 2 can -- can actually start working on 13:42:29

19 connecting to the system. 13:42:32

20 Q All right. So as you sit here right now 13:42:33

21 today, you have no opinion whether both of the 13:42:35

22 scenarios that I gave you are covered by Claim 1 13:42:39

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

143

1 or not. 13:42:42

2 Is that right? 13:42:42

3 MR. STANFORD: Objection. Form. 13:42:43

4 A Can you repeat both and I can try to 13:42:44

5 answer? 13:42:46

6 Q Sure. Scenario Number 1 is where 13:42:47

7 terminal 1 transmits a permission without being 13:42:50

8 requested for that permission, without receiving a 13:42:54

9 request for that permission, without being 13:42:57

10 solicited for that permission. Terminal 1 starts 13:42:59

11 the process by transmitting a permission to 13:43:02

12 terminal 2 to connect to the network. That's 13:43:08

13 Scenario 1. 13:43:10

14 Scenario 2 is, the process starts when 13:43:11

15 terminal 2 requests permission from terminal 1. 13:43:14

16 And in response to that request, terminal 1 13:43:16

17 responds by sending the permission to terminal 2. 13:43:19

18 And my question is, are both of those 13:43:23

19 scenarios within the scope of Claim 1? 13:43:25

20 A In the light of the specification of 13:43:30

21 '088, the first scenario is the one that I would 13:43:34

22 consider person of ordinary skill in the art would 13:43:37

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

144

1 understand by this claim limitation. 13:43:39

2 The fact that the specification of the 13:43:41

3 '088 patent talks about actively handling a first 13:43:43

4 terminal which is internal terminal for the 13:43:50

5 system, actively requesting access providing the 13:43:53

6 data, actively performing the steps of authorizing 13:43:56

7 a second terminal, actively terminating that 13:43:59

8 access and everything, a person of ordinary skill 13:44:03

9 in the art, reading this disclosure and 13:44:07

10 specification, would understand that the second 13:44:08

11 device needs to receive this permission from the 13:44:11

12 first terminal prior to anything else that's 13:44:16

13 happen. 13:44:21

14 Q I don't know if you're doing this on 13:44:21

15 purpose, Dr. Pachamanov. But you managed to avoid 13:44:22

16 answering the question in that answer. Because 13:44:25

17 you talked about the first terminal requesting 13:44:27

18 permission. In Claim 1, the first terminal is 13:44:31

19 providing the permission to terminal 2. Okay? 13:44:34

20 I'm asking you again, and I think I heard 13:44:38

21 you say that the scenario in which terminal 2 13:44:42

22 requests permission and terminal 1 responds to 13:44:47

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

145

1 that request by providing permission to terminal 13:44:50
2 2, is not within the scope of Claim 1 as would be 13:44:53
3 understood by a POSITA. 13:44:57
4 Yes or no? 13:44:59
5 MR. STANFORD: Objection. Asked and 13:45:00
6 answered. 13:45:01
7 A I think I provided an answer, and I'm 13:45:03
8 sorry if it -- if I wasn't clear enough. I can 13:45:05
9 try to say it again. 13:45:08
10 Q You can answer yes or no, that would be 13:45:11
11 very clear. 13:45:13
12 A It's -- it might not be a yes-or-no 13:45:15
13 answer -- question, sorry. 13:45:20
14 MR. STANFORD: Objection. 13:45:22
15 A There are many things to consider. So if 13:45:23
16 one, somebody reads the claim, they read it based 13:45:25
17 on all the -- all the things disclosed in the 13:45:27
18 specification of the patent. Which serves to 13:45:33
19 inform what the claim is about. And from that 13:45:36
20 perspective, somebody reading that you have -- 13:45:40
21 going back to the claim language in particular, a 13:45:44
22 second device, it having permission from the first 13:45:46

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

146

1 communication terminal, start establishing a 13:45:55
2 connection, my understanding is that a person of 13:45:59
3 ordinary skill in the art would understand based 13:46:01
4 on the teachings of the specification and the 13:46:03
5 specific words used in this claim, would 13:46:06
6 understand that the first terminal is the one that 13:46:08
7 initiates and performs the authorization and 13:46:11
8 allow -- allows the second terminal to do anything 13:46:16
9 in the system. 13:46:20

10 Q Okay. And is that understanding what you 13:46:21
11 used to form the opinions that are reflected in 13:46:23
12 your declaration, Exhibit 2014? 13:46:26

13 A I tried -- I tried to look at it as broad 13:46:30
14 as I could. And my understanding is that the 13:46:35
15 system of Iwami is different. It is different 13:46:43
16 just because it doesn't really disclose external 13:46:47
17 devices that need to get access to -- to the 13:46:50
18 internal network. There is no sense and no 13:46:54
19 problem there about what kind of -- if that will 13:47:01
20 be a problem if anybody external will try to 13:47:06
21 connect or not at all. 13:47:08

22 In Iwami it is just a matter of you have 13:47:10

1 devices that want to transmit information to a 13:47:13
2 sink device, let's make this happen by controlling 13:47:16
3 how they display the information. 13:47:19
4 So that's -- that's -- that's the 13:47:20
5 conclusions. The conclusions I came to and 13:47:23
6 opinions I provide are based on the specific 13:47:26
7 limitations in the claim -- in the claims and also 13:47:30
8 the specification of the '088 patent. 13:47:33
9 Q And the particular question I asked you, 13:47:36
10 which you avoided answering, so I would like an 13:47:40
11 answer this time, is, are your opinions as 13:47:43
12 reflected in your declaration based upon the 13:47:46
13 understanding that you gave me earlier that Claim 13:47:48
14 1 is limited to the situation where the first 13:47:51
15 terminal initiates the permission? 13:47:55
16 A Which opinion in particular? 13:47:59
17 MR. STANFORD: Objection. Asked and 13:48:00
18 answered. 13:48:01
19 Q How about the opinions in Paragraphs 98, 13:48:01
20 99, and 100? 13:48:04
21 A Okay. Let me go back to -- to those. 13:48:06
22 Okay. I think I clearly stated my 13:48:18

1 opinion here and why I think that this is not 13:48:20
2 fair. And I tried to answer to you. Let me try 13:48:22
3 again. 13:48:25
4 So I -- my opinion is that in Iwami, a 13:48:25
5 source device simply activates an application 13:48:29
6 which is on the device, that is installed in 13:48:33
7 advance, and transmits a connection -- 13:48:36
8 Q No. No. No. 13:48:38
9 A -- request to the sink device. 13:48:39
10 That's why I think it's different. 13:48:42
11 It's not based on my interpretation of a 13:48:43
12 specific claim limitation. This is the reason I 13:48:46
13 am saying that my opinion is that this is a 13:48:49
14 group-level access control and it's not the same 13:48:51
15 as Claim Limitation 1 in particular. 13:48:53
16 Q Okay. 13:48:56
17 A Okay. 13:48:59
18 Q I think the record is clear as to what 13:48:59
19 the basis of your opinion is, so thank you for 13:49:02
20 that information. 13:49:03
21 A Okay. 13:49:04
22 Q In Paragraph 100 you say, The group-level 13:49:04

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

149

1 access control is performed by the sink device, 13:49:16
2 not a permission granted by one designated 13:49:21
3 gatekeeper terminal to another based on a trust 13:49:24
4 hierarchy. Correct? 13:49:26
5 A That's what I say here, yes. 13:49:31
6 Q And you gave an explanation about why you 13:49:32
7 thought that was true for embodiment 3 in Iwami. 13:49:34
8 Do you think that's also true for 13:49:38
9 embodiment 2 in Iwami? And embodiment 2, by the 13:49:40
10 way, is where the -- where the description in 13:49:45
11 Paragraphs 265 and 273 is relevant. 13:49:47
12 MR. STANFORD: Objection. Form. 13:49:53
13 A The citations -- the citations I use here 13:49:54
14 in previous Paragraph 99 are from embodiment 2, so 13:49:56
15 I do think that they deserve relevant to both 13:49:59
16 embodiments in Iwami. 13:50:04
17 Q Let's take a look at Paragraph 265 in 13:50:05
18 Iwami for a moment, if you wouldn't mind. 13:50:09
19 A Okay. 13:50:10
20 Q Let me know when you are at Paragraph 13:50:16
21 265. 13:50:18
22 A I am there. Let me just look at it. 13:50:28

150

IPR2025-01307; Samsung
Ex. 1048 - Page 151

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

151

1 750, is a table. Correct? 13:52:12

2 A That's what it says, yes. 13:52:14

3 Q Stored in the control device. Right? 13:52:15

4 A We are talking about a control device 13:52:20

5 here, so -- 13:52:21

6 Q Yeah. 13:52:22

7 A -- it has to be there. 13:52:23

8 Q So based on your understanding of 13:52:24

9 Paragraph 265, if one of the student devices is 13:52:28

10 not in the group management information retention 13:52:32

11 unit 750, then that student device is not going to 13:52:35

12 be able to participate in the system. Correct? 13:52:38

13 A If information of that device is not in 13:52:44

14 the retention unit table, then the attempt of this 13:52:47

15 device to connect would be declined, I guess. 13:52:53

16 Q Okay. So this group management 13:52:57

17 information retention unit, would you say that 13:53:02

18 that's not a group-level access control? 13:53:05

19 A It -- it really depends what you 13:53:11

20 understand with group level access control. 13:53:12

21 Like, this is -- this is a table that 13:53:14

22 comprises information, contains information who 13:53:17

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

152

1 already was -- has been granted access. Isn't it? 13:53:20

2 That's why it's retention unit. It stores 13:53:23

3 information about devices that were already 13:53:25

4 granted access and devices that for some reason 13:53:27

5 went out of the room, came back, and want to 13:53:31

6 connect again. 13:53:33

7 So it is -- it is in some way permission 13:53:34

8 to access, not really authentication if those 13:53:36

9 devices should be provided access. 13:53:40

10 Q And if some device is trying to gain 13:53:41

11 access to the system, the information in 750 is 13:53:45

12 going to determine whether that access is granted 13:53:49

13 or not. Right? 13:53:51

14 A Previously granted. 13:53:53

15 Q No. No. Let's make -- let's be clear 13:53:56

16 about this, Dr. Pachamanov. I've got a device for 13:53:59

17 a student. A student has come in from home, he's 13:54:03

18 coming into the classroom. He's now trying to 13:54:05

19 connect to the system, to Iwami's system. 13:54:08

20 And whether or not that student is going 13:54:11

21 to be allowed to connect is going to depend on the 13:54:13

22 information in the group management information 13:54:16

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

153

1 retention unit 750 in the control device. Right? 13:54:20

2 MR. STANFORD: Objection. Form. 13:54:24

3 A So you said -- I agree with you that if 13:54:27

4 that user is already in the table, then that user 13:54:32

5 will be checked if it's in the information for 13:54:38

6 that user is in the table, and they will be 13:54:41

7 automatically connected, yes. 13:54:44

8 Q Okay. Let's go -- 13:54:45

9 A So -- 13:54:50

10 Q I'm sorry. I thought you were done. 13:54:50

11 A No. No. We're done. 13:54:52

12 Q Okay. Let's go to Paragraph 104 of your 13:54:54

13 declaration. 13:54:56

14 A Okay. 13:55:00

15 Q You say in Paragraph 104 that based on 13:55:05

16 your review, Iwami presents distinct embodiments 13:55:07

17 as complete alternative designs that address 13:55:11

18 different control problems in mutually exclusive 13:55:14

19 ways, not as modular features to be freely 13:55:17

20 intermixed. 13:55:20

21 Do you see that? 13:55:21

22 A I see that, yes. 13:55:21

154

IPR2025-01307; Samsung
Ex. 1048 - Page 155

155

IPR2025-01307; Samsung
Ex. 1048 - Page 156

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

156

1 Q Right. And I think you agreed that the 13:57:56
2 Iwami reference is not limited to CERTIFIED 13:58:01
3 Miracast; it includes other technologies, 13:58:05
4 including I think we talked about DLNA? 13:58:08
5 A DLNA. 13:58:12
6 Q Okay. Right? 13:58:13
7 What about for the WiFi Direct; is Iwami 13:58:14
8 limited to WiFi Direct, or are any other 13:58:18
9 technologies disclosed? 13:58:20
10 A I wouldn't say that some -- Iwami is 13:58:23
11 limited to this particular technology. The 13:58:26
12 examples that are provided there and the teachings 13:58:28
13 provided in Iwami are mostly focused on -- on this 13:58:32
14 technology. 13:58:36
15 So a person of ordinary skill in the art 13:58:36
16 would think about these technologies in particular 13:58:39
17 when they are analyzing Iwami. So I am not saying 13:58:41
18 it's limited in no way. 13:58:44
19 Q Does Iwami mention any alternatives to 13:58:45
20 WiFi Direct? 13:58:48
21 A I think you earlier pointed out that, for 13:58:49
22 example, I think it was the same device can be 13:58:52

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

157

1 connected through DLNA instead of WiFi Direct. Or 13:58:55
2 was it a control device? I don't remember. And 13:58:59
3 you pointed to a specific software instead that 13:59:01
4 could be used. 13:59:03
5 Q Okay. I think that was really a 13:59:06
6 distinction between Miracast and DLNA. I'm 13:59:08
7 talking now in particular about WiFi Direct. 13:59:16
8 Let me cut this short. Let's go to 13:59:18
9 Paragraph 76 of Iwami. 13:59:20
10 A Seventy-six. Okay. 13:59:22
11 Q All right. Just let me know when you're 13:59:25
12 there. 13:59:27
13 A Yes. 13:59:38
14 Q Okay. So Paragraph 76 says, For example, 13:59:38
15 Wireless Fidelity, paren, WiFi, Direct. And then 13:59:43
16 it refers to Tunneled Direct Link Setup, TDLS. 13:59:47
17 Then it refers to an ad-hoc -- sorry, an ad-hoc 13:59:52
18 network, or a mesh network can be used. 13:59:56
19 Do you see that? 14:00:01
20 A I see that, yes. 14:00:02
21 Q So there are three alternatives to WiFi 14:00:02
22 Direct; TDLS, ad-hoc network, or mesh network. 14:00:07

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

158

1 Any of those can be used in place of WiFi 14:00:12

2 Direct, according to Iwami. Correct? 14:00:16

3 A The way I read Paragraph 76 it says, 14:00:17

4 instead of the wireless LAN you can use Wireless 14:00:21

5 WiFi Direct, Tunneled Direct Link Setup, an ad-hoc 14:00:27

6 network, or a mesh network. 14:00:31

7 So here, in my opinion, Iwami talks more 14:00:32

8 about the connection that you do through the 14:00:34

9 access point device, just -- just based on reading 14:00:36

10 this particular paragraph. It says, As the 14:00:39

11 wireless LAN, for example, and all the other 14:00:41

12 things can be used. 14:00:44

13 Q So you think WiFi Direct has got 14:00:45

14 something to do with communications between two 14:00:48

15 terminals via an access point? 14:00:50

16 A I didn't say that. 14:00:53

17 Q Oh. 14:00:54

18 A What I said here is that Paragraph 76 14:00:55

19 provides alternatives to the wireless LAN, and the 14:00:57

20 alternatives are described there. 14:01:03

21 If you go in Paragraph 74, it talks about 14:01:10

22 other alternatives I see here. Wideband, Wideband 14:01:12

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

159

1 Code Division Multiple Access; Global system, GSM, 14:01:20
2 et cetera. 14:01:21
3 So these -- more or less my understanding 14:01:22
4 is that these explains that the devices can be 14:01:25
5 connected through other technologies that you can 14:01:29
6 think of. 14:01:32
7 Q Right. Not just WiFi Direct, right? 14:01:32
8 That's all I'm trying to say. 14:01:37
9 A But again your question, I disagree with 14:01:37
10 the fact that here Iwami provides alternatives to 14:01:39
11 WiFi Direct. Instead -- Iwami says, Instead of 14:01:46
12 wireless LAN network, which is one is LAN network, 14:01:50
13 you can use either WiFi Direct or Tunneled Direct 14:01:52
14 Link Setup or an ad-hoc network or a mesh network. 14:01:54
15 So WiFi Direct is one of the alternatives 14:01:59
16 of the connections that you can use, instead of 14:02:01
17 the other way around. 14:02:04
18 Anyway, I think it's just terminology. 14:02:05
19 It is not limited to WiFi Direct in general. 14:02:07
20 Q Yeah. Okay. And the last sentence of 14:02:09
21 that paragraph says that you can use the 14:02:15
22 technology of WiFi Direct or TDLS. Right? 14:02:19

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

160

1 So there TDLS is an alternative to WiFi 14:02:24

2 Direct, according to Iwami? 14:02:29

3 A I disagree with this again. I'm reading 14:02:32

4 the sentence, the whole sentence. As the wireless 14:02:34

5 LAN, wireless Fidelity Direct, Tunneled Direct 14:02:41

6 Link Setup, an ad-hoc network or a mesh network 14:02:46

7 can be used. So to me, all these refer to the 14:02:50

8 very first part of the sentence as the wireless 14:02:52

9 LAN. 14:02:55

10 Q I'm looking at the last sentence, the 14:02:55

11 last sentence of Paragraph 76. It goes on -- 14:02:58

12 A Seventy-six. Okay. Sorry. Okay. 14:03:04

13 Q All right. The last sentence reads, 14:03:04

14 "WiFi CERTIFIED Miracast is a" -- it says 14:03:06

15 "minoring," I believe it is supposed to say 14:03:11

16 mirroring -- "technology for transmitting an audio 14:03:13

17 or a display image reproduced with one terminal to 14:03:16

18 another terminal using the technology of WiFi 14:03:19

19 Direct or TDLS and outputting the audio or image 14:03:23

20 data similarly with the other terminal." 14:03:29

21 Do you see that? 14:03:31

22 A Yes. That particular sentence gives TDLS 14:03:32

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

161

1 as an alternative of WiFi Direct, yes. 14:03:36

2 Q Okay. So earlier in the day we were 14:03:39

3 talking about Figure 17 in Iwami. I'm sorry, 14:04:01

4 let's make that Figure 22 of Iwami. Would you 14:04:05

5 turn to Figure 22 of Iwami, please? 14:04:07

6 A Twenty-two. Yes. 14:04:09

7 Q Okay. Now -- you know what? Let me 14:04:16

8 withdraw that. 14:04:24

9 MR. HEINTZ: If you give me five minutes 14:04:27

10 I think I'm done. I'd just like to confer with my 14:04:28

11 colleague Mr. Panno offline. So if we can go off 14:04:31

12 the record for five minutes we'll come back, and 14:04:35

13 I'll conclude my portion of the deposition. 14:04:37

14 Will that be all right with everybody? 14:04:40

15 MR. STANFORD: Yes. 14:04:42

16 MR. HEINTZ: Okay. 14:04:43

17 VIDEO SPECIALIST: Stand by. 14:04:44

18 We are now going off the video record. 14:04:45

19 The time is 2:04 p.m. 14:04:47

20 (A recess was taken.) 14:04:49

21 VIDEO SPECIALIST: We are now back on the 14:09:05

22 video record. The time is 2:09 p.m. 14:09:17

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

162

1 MR. HEINTZ: Dr. Pachamanov, no more 14:09:19
2 further questions from me. I appreciate your time 14:09:21
3 and your patience. And I apologize if I got your 14:09:23
4 name wrong at any point during today's 14:09:26
5 proceedings. 14:09:28
6 THE WITNESS: Thank you. 14:09:28
7 MR. HEINTZ: Pass the witness. 14:09:29
8 MR. STANFORD: Thank you, Counsel. 14:09:31
9 EXAMINATION BY COUNSEL FOR PATENT OWNER 14:09:33
10 BY MR. STANFORD: 14:09:33
11 Q Dr. Pachamanov, it's been a day so far, 14:09:34
12 so I promise I won't keep you too long. I just 14:09:36
13 have a few questions about some of the testimony 14:09:39
14 you've given earlier today. 14:09:42
15 So jumping back now a few hours ago, 14:09:45
16 towards the beginning of today do you recall 14:09:48
17 counsel for the petitioner asking you about your 14:09:51
18 interpretation -- or your opinions on the claim 14:09:56
19 construction for Claim Element 6b? 14:09:59
20 Do you recall that? 14:10:03
21 A I remember this discussion, yes. 14:10:03
22 Q Okay. And I'd like to point you to your 14:10:05

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

163

1 declaration, Exhibit 2014, and I believe your 14:10:10
2 opinions relating to Claim Element 6b start on 14:10:24
3 Paragraph 86 your declaration. 14:10:27
4 Is that correct? 14:10:28
5 A Let me just confirm. 14:10:30
6 Yes, that's correct. Yes. 14:10:35
7 Q And if you recall, earlier counsel was 14:10:36
8 asking you whether or not you provided an opinion 14:10:40
9 on the petitioners' proposed construction. 14:10:43
10 Do you recall that? 14:10:46
11 A I recall that, yes. 14:10:48
12 Q What is your opinion on whether or not 14:10:49
13 the petitioners' proposed construction is correct 14:10:53
14 or not? 14:10:56
15 MR. HEINTZ: Objection, outside the 14:10:57
16 scope. Objection, asked and answered. 14:11:00
17 Go ahead, sir. You can answer if you 14:11:05
18 can. 14:11:06
19 A My opinion is that the petitioners' 14:11:06
20 construction is wrong, and for the reason that 14:11:13
21 it -- it narrows the claim, and that's not 14:11:17
22 necessary. 14:11:20

164

IPR2025-01307; Samsung
Ex. 1048 - Page 165

165

IPR2025-01307; Samsung
Ex. 1048 - Page 166

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

166

1 my declaration. 14:13:38

2 MR. STANFORD: No further questions. 14:13:39

3 EXAMINATION BY COUNSEL FOR PETITIONERS 14:13:41

4 BY MR. HEINTZ: 14:13:41

5 Q All right. Dr. Pachamanov, now there's 14:13:43

6 going to be more questions. Because earlier today 14:13:44

7 I asked you about your construction of 6b. And 14:13:46

8 just now on redirect you tell me that you think 14:13:50

9 that the petitioners' construction is wrong 14:13:54

10 because it unnecessarily narrows Limitation 6b. 14:13:58

11 Did I understand your testimony correct? 14:14:02

12 A That's what I just responded to counsel, 14:14:05

13 yes. 14:14:07

14 Q Now, tell me where in your declaration I 14:14:08

15 can find that opinion? 14:14:11

16 A I told you that this is -- when you asked 14:14:14

17 me this question earlier, I told you that my 14:14:16

18 opinion is within these two paragraphs, 86 and 87. 14:14:18

19 And the fact that I disagree with this, even 14:14:24

20 though I haven't explicitly said that this -- this 14:14:26

21 is wrong, I do consider it as wrong. 14:14:30

22 Q Okay. So my question is, is the opinion 14:14:32

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

167

1 you just expressed in Paragraph 86 or 87? And if 14:14:35
2 it is, show me where it is. 14:14:40
3 MR. STANFORD: Objection to form. 14:14:42
4 Objection, asked and answered. 14:14:44
5 A The answer to this is that in Paragraph 14:14:46
6 87 I'm explaining that no construction is 14:14:48
7 necessary, therefore this means that I disagree 14:14:51
8 with the construction proposed by petitioner. 14:14:54
9 Q Dr. Pachamanov, you did not express an 14:15:07
10 opinion in Paragraph 86 or 87 that petitioners' 14:15:09
11 construction is wrong, did you, sir? 14:15:14
12 A I think I already answered to the 14:15:18
13 question, and my answer will be the same again. I 14:15:20
14 did express my opinion about this construction, I 14:15:22
15 listed it, and then I said that in my opinion no 14:15:27
16 construction is necessary. 14:15:30
17 If I would have agreed with that 14:15:30
18 construction, I would say I agree with the 14:15:32
19 construction. Since I disagree with this and I 14:15:34
20 say no construction is necessary, this means that 14:15:37
21 I disagree with -- with the construction. 14:15:39
22 Q That's a novel interpretation. 14:15:43

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

168

1 So what about the construction do you 14:15:46
2 disagree with? 14:15:47
3 MR. STANFORD: Objection. Form. 14:15:48
4 A Well, the things which are added to the 14:15:51
5 claim. 14:15:55
6 Q Which things are those? 14:15:55
7 A Well, it says that -- so let me read it, 14:15:57
8 and then this will answer to your question. So 14:16:06
9 the petitioner says that the claim does not 14:16:08
10 include any requirement for the communication 14:16:11
11 device to terminate the connection with the second 14:16:13
12 communication terminal in response to or as a 14:16:16
13 result of the communication device being unable to 14:16:19
14 receive information from the first communication 14:16:21
15 terminal, and does not limit what kind of 14:16:24
16 information the communication device must be 14:16:27
17 unable to receive. 14:16:30
18 So I disagree with these two statements 14:16:32
19 in particular, and the last one being, Does not 14:16:35
20 limit what kind of information the communication 14:16:38
21 device must be unable to receive. 14:16:40
22 So what I'm -- yeah. What I'm saying is 14:16:43

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

169

1 that the claim is clear, and this is unnecessary, 14:16:46

2 and this more or less tries to implies that the 14:16:51

3 claim does not limit any information, does not -- 14:16:55

4 it means that anything could happen and it's 14:17:02

5 still -- the claim will be interpreted this way. 14:17:06

6 So that's the -- that's what I mean. 14:17:09

7 Q All right. 14:17:11

8 A With these additions in particular. 14:17:13

9 Q Let's understand what it is that you 14:17:15

10 disagree with in particular. 14:17:17

11 So the last part says that the -- in 14:17:18

12 petitioners' construction, "The claim does not 14:17:22

13 limit what kind of information the communication 14:17:24

14 device must be unable to receive." 14:17:27

15 You say you disagree with that. So tell 14:17:30

16 me what kind of information must the communication 14:17:33

17 device be unable to receive in order to be within 14:17:37

18 the scope of Claim 1? 14:17:41

19 MR. STANFORD: Objection to form. 14:17:43

20 A So I can stand back and explain the whole 14:17:44

21 situation. 14:17:51

22 So the claim itself has a plain and 14:17:52

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

170

1 ordinary meaning. Going back to the embodiments 14:17:57
2 on the specification of this patent, there are 14:18:00
3 specific things that the communication device does 14:18:02
4 or does not when it -- it checks and verifies in 14:18:07
5 the second terminal can or cannot proceed the 14:18:12
6 connection and cannot be connected to the network, 14:18:15
7 to the system. 14:18:18
8 And there are specific embodiments and 14:18:19
9 specific examples what this could be. We can go 14:18:22
10 and check specification. I can -- I can find them 14:18:25
11 and I can point them to you. 14:18:27
12 One of them, as far as I can remember, 14:18:29
13 was that communication device was checking on a 14:18:30
14 regular basis if -- if the terminal 1 would 14:18:35
15 confirm that that particular second terminal can 14:18:39
16 remain connected. 14:18:43
17 So one example would be that if -- if 14:18:45
18 terminal 1 does not provide an answer to this or 14:18:50
19 provide specific answer to that, then the 14:18:54
20 connection will be terminated. 14:18:56
21 So there are also different reasons 14:19:00
22 explained in the specification about like the 14:19:03

1 first terminal being in sleep mode or other things 14:19:06
2 like that. So there are specific examples in the 14:19:09
3 specification. 14:19:12
4 A person of ordinary skill in the art 14:19:12
5 would understand that there are specific things 14:19:13
6 that -- that they should implement in order to 14:19:16
7 make the -- the system operate the way Claim 1 14:19:21
8 requires. 14:19:27
9 Q So are you telling me that Claim 1 is 14:19:28
10 limited to one or all of the examples that are in 14:19:30
11 the specification? 14:19:33
12 A I'm not saying that it's limited. I'm 14:19:36
13 saying that Claim 1, and a person of ordinary 14:19:38
14 skill in the art, analyzing Claim 1, would be 14:19:42
15 informed about -- about the meaning of the claim 14:19:45
16 limitations based on the disclosures in the 14:19:48
17 specification. 14:19:52
18 So, no, it's not that that particular 14:19:52
19 message should or should not be received. But 14:19:57
20 it's clear that -- the claim language is clear 14:20:01
21 that in a case that the communication device is 14:20:06
22 unable to receive information from the first 14:20:08

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

172

1 communication terminal, the communication terminal 14:20:12

2 terminates the connection with the second 14:20:15

3 communication terminal. 14:20:19

4 Q So in what way is the information that's 14:20:19

5 discussed in that limitation limited? 14:20:22

6 MR. STANFORD: Objection to form. 14:20:25

7 A To a person of ordinary skill in the art, 14:20:34

8 that would mean that there could be some specific 14:20:35

9 information -- what I mean is that there could be 14:20:40

10 a specific information, or something else. And 14:20:41

11 that's why I do -- I disagree with the fact that 14:20:44

12 adding this particular thing to the claim is 14:20:47

13 necessary and relevant. 14:20:53

14 I think a person of ordinary skill in the 14:20:54

15 art will understand that this more or less makes 14:20:55

16 the claim that it doesn't really matter what 14:21:02

17 happens with the -- with the first device, it 14:21:05

18 doesn't really matter if the first device is total 14:21:09

19 responsive, it doesn't matter if the first exists 14:21:14

20 at all. 14:21:18

21 So this, I previously said I think 14:21:18

22 narrows. In fact, it actually makes it very 14:21:19

1 strange to -- to understand the claim limitation. 14:21:23

2 So that's why I'm saying in my opinion it's wrong, 14:21:28

3 it shouldn't be there. 14:21:30

4 Q Okay. So you appear to be contradicting 14:21:31

5 yourself to me. So I'm just trying to understand. 14:21:35

6 What the petitioner said was that the claim does 14:21:38

7 not limit what kind of information the 14:21:45

8 communication device must be unable to receive. 14:21:46

9 You tell me there are examples in the 14:21:51

10 specification, but the claim isn't limited to 14:21:52

11 those examples. 14:21:55

12 So is the claim limited to a particular 14:21:59

13 kind of information that the device must not be 14:22:03

14 able to receive, or is it not limited, yes or no? 14:22:06

15 It's a yes-or-no answer. 14:22:10

16 MR. STANFORD: Objection to form. 14:22:11

17 Objection. Asked and answered. 14:22:13

18 A There are two components of this claim 14:22:16

19 limitation. 14:22:18

20 Q I'm only asking about the second. 14:22:19

21 A This is one of them. 14:22:21

22 Q So just confine your answer to the 14:22:22

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

174

1 question I am asking you, which is the second 14:22:23
2 part. 14:22:25
3 MR. STANFORD: Counsel, please let him 14:22:26
4 finish his answer before you ask a followup. 14:22:27
5 A So the claim itself does not really talk 14:22:31
6 about specific thing that has to be sent from 14:22:35
7 terminal 1 or would be expected to be received 14:22:38
8 in -- in the communication device. It doesn't say 14:22:44
9 that. 14:22:50
10 That being said, it does not limit what 14:22:50
11 kind of information the communication device must 14:22:53
12 be unable to receive. Is something which is 14:22:58
13 unnecessary and therefore wrong. 14:23:00
14 Q Okay. Just because you think it's 14:23:02
15 unnecessary doesn't mean it's wrong. So I'm -- 14:23:04
16 A You are asking about my opinion, and I am 14:23:08
17 providing an opinion. 14:23:10
18 So you're asking me do I think this is 14:23:11
19 wrong. I think it's wrong. That's the reason I 14:23:13
20 think it's wrong. If you disagree with this, I'm 14:23:16
21 okay. It's just that's my opinion. 14:23:19
22 Q All right. Let me get this straight. 14:23:20

175

IPR2025-01307; Samsung
Ex. 1048 - Page 176

176

IPR2025-01307; Samsung
Ex. 1048 - Page 177

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

177

1 that's wrong? 14:24:47

2 A Right now I'm not prepared to answer this 14:24:49

3 question. I need time to analyze it. 14:24:50

4 Q You had months. You had all the time you 14:24:53

5 wanted to do your declaration. You didn't do it 14:24:55

6 then. Right? 14:24:57

7 MR. STANFORD: Objection to form. 14:24:58

8 A I didn't put it in written here, that's 14:25:01

9 the answer to the question. 14:25:02

10 Q Is there some reason that you didn't put 14:25:03

11 this in writing? 14:25:06

12 A I cannot recall right now. 14:25:07

13 MR. HEINTZ: Okay. With that lack of 14:25:09

14 response, I will end this deposition. No further 14:25:12

15 questions. 14:25:17

16 Again, Dr. Pachamanov, thank you for your 14:25:20

17 time here today. And you have a good day. 14:25:23

18 THE WITNESS: Thank you. Thank you. You 14:25:26

19 too. 14:25:27

20 VIDEO SPECIALIST: This now marks the end 14:25:29

21 of the videotaped deposition of Dr. Pachamanov. 14:25:31

22 We are going off the record. The time is 2:25 14:25:33

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

178

1 p.m.

14:25:36

2 (Off the record at 2:25 p.m. EDT.)

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Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

179

1 ACKNOWLEDGMENT OF DEPONENT

2 I, RADOSTIN PACHAMANOV, Ph.D., do hereby
3 acknowledge that I have read and examined the
4 foregoing testimony, and the same is a true,
5 correct and complete transcription of the
6 testimony given by me, and any corrections appear
7 on the attached Errata sheet signed by me.

8

9

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(DATE)

(SIGNATURE)

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Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

180

C E R T I F I C A T E

I, Debra Ann Whitehead, E-Notary Public in and for
the Commonwealth of Virginia, do hereby certify:

That RADOSTIN PACHAMANOV, Ph.D., the
witness whose deposition is hereinbefore set forth,
was duly sworn by me before the commencement of such
deposition and that such deposition was taken
virtually and is a true record of the testimony
given by such witness.

I further certify that the adverse party,
MAXELL, LTD., was represented by counsel at the
deposition.

I further certify that the deposition of
RADOSTIN PACHAMANOV, Ph.D., occurred virtually, on
Wednesday, June 17, 2026, from 10 a.m. to 2:25 p.m.
EDT.

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

181

1 I further certify that I am not related to
2 any of the parties to this action by blood or
3 marriage, I am not employed by or an attorney to any
4 of the parties to this action, and that I am in no
5 way interested, financially or otherwise, in the
6 outcome of this matter.

7
8 IN WITNESS WHEREOF, I have hereunto set my
9 hand this 27th day of June, 2026.

10
11 My commission expires:
12 October 31, 2027

13 

14 -----

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A
ability
112:12, 117:17,
130:18, 131:1,
131:2
able
15:18, 41:6,
91:9, 114:7,
114:20, 119:13,
120:2, 129:5,
131:13, 151:12,
173:14
above
72:17
absolutely
116:8
accepted
114:18
access
54:20, 57:10,
59:2, 66:19,
107:1, 107:5,
107:7, 108:8,
108:18, 108:19,
108:21, 109:4,
109:5, 110:9,
110:12, 110:15,
111:8, 111:11,
111:13, 112:8,
112:18, 112:19,
112:22, 113:3,
113:8, 113:9,
114:11, 114:13,
114:20, 115:2,
115:7, 133:8,
134:8, 134:9,
134:16, 135:3,
136:17, 140:14,
141:5, 141:9,
141:18, 144:5,
144:8, 146:17,
148:14, 149:1,
150:20, 151:18,
151:20, 152:1,
152:4, 152:8,
152:9, 152:11,
152:12, 158:9,

158:15, 159:1
access-point
112:11
accompanying
17:18
according
75:1, 75:16,
76:8, 85:20,
104:2, 124:22,
125:14, 155:9,
158:2, 160:2
acknowledge
179:3
acknowledgment
179:1
acronym
31:18
action
131:2, 181:2,
181:4
actions
88:22, 138:10
activates
134:14, 148:5
active
75:1, 129:22,
131:20, 134:7
actively
140:13, 141:8,
141:18, 144:3,
144:5, 144:6,
144:7
acts
82:10, 123:18
actually
52:6, 53:5,
55:21, 58:8,
86:14, 97:8,
105:10, 116:5,
117:3, 119:20,
126:7, 126:17,
133:19, 136:6,
142:18, 165:17,
172:22
ad-hoc
157:17, 157:22,
158:5, 159:14,
160:6

adam
4:3
add
12:17
added
12:16, 130:14,
135:12, 136:7,
136:8, 136:11,
168:4
adding
128:16, 172:12
addition
53:4
additional
69:10, 124:22
additions
169:8
address
153:17
advance
134:15, 148:7
adverse
180:12
after
24:12, 81:7,
141:15
again
10:1, 13:19,
14:2, 23:11,
23:18, 30:3,
34:22, 39:4,
45:17, 47:19,
51:22, 54:15,
62:2, 67:22,
70:1, 72:9,
72:22, 82:3,
90:15, 99:2,
101:17, 104:6,
105:1, 109:1,
110:6, 114:21,
120:4, 129:2,
137:22, 140:18,
144:20, 145:9,
148:3, 152:6,
159:9, 160:3,
167:13, 177:16
ago
8:2, 162:15,

176:4
agree
7:6, 20:6,
34:19, 38:11,
39:1, 39:7,
46:3, 70:3,
70:7, 76:5,
78:2, 78:7,
82:3, 84:2,
88:14, 91:3,
91:7, 96:6,
97:15, 100:15,
100:17, 103:8,
120:9, 120:15,
120:18, 120:20,
125:5, 150:13,
150:15, 153:3,
167:18
agreed
65:12, 156:1,
167:17
agrees
65:8
ahead
25:22, 36:8,
87:3, 87:4,
90:10, 92:14,
132:2, 132:6,
137:3, 140:18,
163:17
al
6:5
alerting
13:10
all
6:12, 8:2,
9:17, 11:21,
12:21, 19:4,
19:10, 19:15,
20:17, 20:19,
21:20, 30:6,
32:22, 34:6,
35:3, 35:7,
36:2, 38:12,
41:15, 44:18,
47:14, 48:21,
54:5, 57:1,
61:15, 64:12,

65:11, 65:14,
65:20, 67:8,
67:22, 68:15,
69:14, 70:14,
72:1, 72:8,
72:17, 73:12,
73:20, 74:21,
75:12, 77:2,
82:17, 88:22,
94:14, 97:2,
101:1, 103:13,
105:9, 106:13,
107:12, 107:19,
110:3, 113:12,
116:10, 116:13,
116:20, 117:10,
117:14, 118:4,
118:6, 120:22,
121:4, 123:2,
123:12, 124:12,
124:14, 124:17,
124:18, 136:13,
137:11, 138:10,
142:20, 145:17,
146:21, 150:2,
150:21, 155:16,
157:11, 158:11,
159:8, 160:7,
160:13, 161:14,
165:20, 166:5,
169:7, 171:10,
172:20, 174:22,
177:4
allege
17:9
alleged
17:12
alliance
31:13, 31:17
allow
129:15, 146:8
allowed
49:3, 49:10,
108:14, 108:15,
109:1, 119:22,
132:10, 152:21
allowing
113:2, 121:3,

137:14
allows
146:8
almost
140:20
already
8:7, 54:6,
116:17, 130:13,
130:17, 131:3,
131:4, 135:12,
150:19, 152:1,
152:3, 153:4,
167:12
also
4:2, 6:22, 7:1,
7:10, 24:13,
26:10, 37:4,
37:13, 43:10,
44:8, 45:8,
46:9, 47:2,
49:8, 50:4,
55:13, 62:10,
63:8, 69:9,
119:12, 133:20,
147:7, 149:8,
154:1, 164:2,
170:21
alternative
88:18, 153:17,
160:1, 161:1
alternatives
156:19, 157:21,
158:19, 158:20,
158:22, 159:10,
159:15
although
66:14, 104:20,
125:5
altogether
100:1
always
38:10, 100:4,
101:12
america
1:6
american
119:2
among
48:15, 54:7

analogous
134:12
analysis
24:7, 33:21,
59:13, 142:11
analyze
29:13, 177:3
analyzed
28:11
analyzing
17:13, 156:17,
171:14
animal
96:1
ann
2:5, 180:2
another
27:21, 31:19,
37:10, 43:12,
43:15, 45:4,
50:15, 63:2,
87:18, 97:10,
118:21, 119:19,
124:5, 124:21,
132:22, 133:10,
135:6, 149:3,
160:18
answer
8:10, 33:22,
45:7, 61:15,
82:14, 85:9,
90:10, 128:4,
132:5, 143:5,
144:16, 145:7,
145:10, 145:13,
147:11, 148:2,
154:18, 154:21,
163:17, 167:5,
167:13, 168:8,
170:18, 170:19,
173:15, 173:22,
174:4, 175:19,
177:2, 177:9
answered
145:6, 147:18,
163:16, 165:17,
167:4, 167:12,
173:17

answering
57:17, 144:16,
147:10
any
17:21, 17:22,
20:14, 21:19,
26:19, 59:9,
64:3, 64:4,
64:8, 73:22,
107:5, 109:15,
114:6, 116:5,
117:1, 117:19,
122:13, 122:19,
134:22, 136:14,
156:8, 156:19,
158:1, 162:4,
168:10, 169:3,
175:14, 176:5,
176:12, 176:22,
179:6, 181:2,
181:3
anybody
122:11, 146:20
anything
50:20, 54:5,
60:20, 109:17,
109:20, 123:20,
144:12, 146:8,
154:22, 169:4
anyway
131:19, 159:18
anywhere
114:6
apologize
66:10, 162:3
appeal
1:2
appear
173:4, 179:6
appears
19:6, 19:11,
96:1
application
134:14, 148:5
applied
28:1
applies
12:3, 18:15

apply	166:7, 166:16,	127:8, 127:16,	63:7, 63:21,
26:18, 26:19	167:4, 173:17	127:20, 134:18,	64:2, 70:14,
appreciate	asking	152:8	95:4, 98:18,
162:2	14:7, 117:22,	authorization	105:15, 119:15,
approaches	120:4, 142:2,	115:10, 130:9,	122:5, 122:8,
127:15, 130:15	144:20, 155:17,	131:21, 146:7	127:22, 133:17,
approaching	162:17, 163:8,	authorized	134:1, 137:15,
126:8, 127:12	164:5, 173:20,	131:4	139:8, 139:10,
april	174:1, 174:16,	authorizing	139:11, 145:21,
9:15	174:18	136:17, 144:6	147:21, 152:5,
architecture	asks	automatically	161:12, 161:21,
122:19, 155:15	139:1	153:7	162:15, 169:20,
architectures	aspect	available	170:1
154:4	47:16	32:13, 35:19,	backwards
area	asserted	49:9	88:13
11:7	21:11, 21:13	avenue	bad
argue	assertion	3:12	118:11, 120:6
80:15	110:7	avoid	band
argued	asserts	144:15	80:20, 81:5,
94:8	19:20	avoided	81:21, 82:21,
arguing	assess	147:10	84:6, 84:10,
44:12, 71:8,	130:12	aware	84:17, 84:20,
94:7, 101:10	assigned	12:15	85:7, 85:17,
arguments	64:16	away	85:20, 86:5,
17:14, 19:2	associated	38:20, 107:8,	86:10, 86:16,
around	85:7	113:9	86:17, 87:20,
100:21, 159:17	assume	B	88:3, 89:12,
art	110:1, 116:21,	b1	90:20, 90:21,
15:11, 15:12,	118:8	74:10, 74:16,	91:4, 91:17,
16:3, 17:8,	assumed	74:22, 116:12,	91:18, 91:20,
17:13, 17:17,	12:5	116:19, 117:9	91:22, 92:1,
23:4, 26:15,	assumptions	b2	92:7, 92:9,
26:19, 119:1,	15:5	74:16, 75:13,	92:12, 92:19,
119:12, 120:10,	attached	76:20, 77:3,	93:3, 93:12,
121:2, 142:7,	5:8, 5:13, 9:6,	78:1, 78:9,	95:2, 95:6,
143:22, 144:9,	27:4, 35:21,	78:12, 116:12,	95:7, 105:18,
146:3, 156:15,	64:19, 179:7	117:9	105:22, 106:2,
171:4, 171:14,	attempt	b3	106:3
172:7, 172:15	22:3, 151:14	74:10, 74:16,	bands
articulated	attending	76:6, 77:12,	81:1, 82:2,
176:6	6:13	77:22, 78:9,	85:13, 91:2
aside	attention	78:11, 116:13,	bandwidth
34:7	77:9	117:9	103:18
asked	attorney	back	base
48:16, 57:18,	18:18, 181:3	13:1, 13:7,	112:9
58:19, 101:1,	audio	33:19, 34:8,	based
145:5, 147:9,	160:16, 160:19	34:22, 42:1,	11:6, 11:9,
147:17, 163:16,	authentication		24:7, 30:5,
	127:2, 127:5,		

58:7, 60:10,
63:9, 73:21,
82:10, 85:9,
85:13, 89:3,
91:12, 94:16,
128:17, 133:11,
135:6, 145:16,
146:3, 147:6,
147:12, 148:11,
149:3, 151:8,
153:15, 158:9,
164:8, 171:16
basis
71:3, 148:19,
170:14
because
15:22, 20:11,
21:16, 21:20,
29:9, 38:21,
41:4, 48:6,
55:20, 59:12,
60:17, 61:4,
62:3, 62:10,
90:8, 93:3,
93:11, 95:2,
103:17, 104:17,
105:3, 111:16,
115:6, 116:19,
124:3, 128:1,
129:20, 135:21,
139:9, 144:16,
146:16, 165:9,
166:6, 166:10,
174:14, 175:3
been
7:15, 8:1,
33:17, 63:13,
64:15, 68:19,
79:6, 80:7,
80:21, 81:22,
83:1, 83:9,
86:6, 88:5,
89:14, 90:20,
91:1, 97:17,
99:3, 99:7,
105:20, 108:4,
114:18, 121:17,
130:14, 133:16,

134:22, 142:12,
152:1, 162:11
before
1:2, 2:5,
27:13, 64:14,
65:15, 102:15,
106:14, 115:17,
174:4, 180:7
began
155:17
beginning
35:13, 119:17,
162:16
begins
6:2, 27:16,
35:4
behalf
3:2, 3:16
behavior
119:3
behind
165:22
being
61:16, 67:8,
71:5, 83:15,
87:16, 88:1,
89:15, 91:5,
91:19, 109:4,
141:13, 141:15,
141:21, 143:7,
143:9, 168:13,
168:19, 171:1,
174:10, 176:16
belief
125:10
believe
27:5, 37:21,
38:9, 47:3,
47:15, 160:15,
163:1, 164:14,
164:15
belong
135:2
belongs
125:22
beneficial
120:2
benefits
119:13, 121:3

besides
176:6
better
107:15
between
24:15, 38:7,
48:19, 58:21,
66:13, 98:14,
99:3, 99:15,
127:2, 140:8,
157:6, 158:14
beyond
15:1
bit
38:22, 58:18,
64:13, 106:14
blood
181:2
board
1:2
both
39:2, 45:9,
52:6, 52:7,
52:8, 141:17,
142:3, 142:10,
142:21, 143:4,
143:18, 149:15,
154:14, 155:12
bother
29:20
bottom
99:21
box
41:16, 42:5
braces
27:13
break
34:16, 63:14,
64:3, 64:16,
65:16, 106:15,
121:18, 122:10
broad
146:13
brown
3:18
build
118:1, 119:10
built
118:2

bunch
118:18
burden
12:8, 14:9,
15:1, 16:6,
16:18, 17:19,
17:22

C

call
11:2, 45:15,
52:21, 96:2
called
49:18, 53:13,
125:8
calling
55:14
came
147:5, 152:5
cameras
35:10
can't
16:11, 17:4,
17:21, 115:12
cannot
15:21, 16:17,
18:2, 62:3,
70:5, 85:9,
112:17, 113:11,
113:14, 114:14,
115:6, 123:20,
170:5, 170:6,
175:11, 175:16,
177:12
capable
31:8, 43:9,
49:2
care
39:11
carefully
79:21, 81:12,
137:18, 175:18,
175:22, 176:2
carries
154:2
case
1:7, 6:7,
28:13, 60:6,

99:12, 117:1,
117:4, 132:22,
171:21

cat

96:3, 96:4,
96:5, 96:7,
96:9, 97:8,
97:18, 99:22

causes

60:6

center

87:12, 98:7,
98:8, 98:21,
99:19, 99:20,
106:10

central

63:7, 103:22,
104:13

certain

25:3, 91:20,
92:7, 108:13,
123:17, 125:6,
136:17

certified

24:16, 24:21,
25:2, 25:5,
25:7, 25:10,
25:14, 26:12,
26:16, 27:17,
27:20, 28:5,
28:6, 28:11,
28:19, 28:21,
29:2, 29:6,
29:7, 29:17,
30:4, 31:12,
32:1, 155:20,
156:2, 160:14

certify

180:3, 180:12,
180:16, 181:1

cetera

38:18, 112:2,
129:17, 136:22,
159:2

challenged

18:12, 19:1

chance

8:9

change

77:6, 78:19,
79:13, 81:5,
86:16, 86:17,
87:10, 91:8,
91:10, 91:11,
91:14, 92:16,
93:14, 93:19,
94:2, 94:22,
97:17, 102:2,
104:8, 108:17

changed

66:7, 66:9,
87:16, 88:10,
90:7, 91:5,
92:22, 98:12

changes

92:18, 100:14

changing

58:8, 109:3

channel

63:2, 85:6,
86:9, 96:10,
96:14, 97:1,
97:2, 97:19,
98:2, 98:3,
98:9, 98:10,
98:20, 98:22,
99:18, 100:19,
100:21, 102:11,
103:4, 103:12,
103:14, 103:22,
104:1, 104:9,
104:12, 104:14,
104:18, 105:13,
105:14, 115:15,
115:16, 115:21

charts

154:3

chat

9:1, 13:14,
27:5, 32:9,
64:21

check

40:5, 128:6,
133:21, 133:22,
170:10

checked

135:14, 153:5

checking

170:13

checks

135:11, 170:4

citations

149:13

cite

66:3

cited

20:16, 53:14,
71:1, 82:8

cites

133:19

citing

25:12, 58:13

claim

19:12, 20:2,
20:12, 20:20,
21:11, 22:2,
22:4, 23:3,
23:10, 47:15,
51:1, 54:12,
54:18, 55:10,
56:4, 57:8,
57:14, 60:15,
68:20, 69:17,
83:14, 113:4,
129:13, 135:17,
135:18, 136:9,
136:12, 137:8,
137:12, 137:15,
137:18, 137:20,
138:18, 138:21,
139:5, 140:1,
141:1, 142:4,
142:7, 142:22,
143:19, 144:1,
144:18, 145:2,
145:16, 145:19,
145:21, 146:5,
147:7, 147:13,
148:12, 148:15,
162:18, 162:19,
163:2, 163:21,
168:5, 168:9,
169:1, 169:3,
169:5, 169:12,
169:18, 169:22,

171:7, 171:9,
171:13, 171:14,
171:15, 171:20,
172:12, 172:16,
173:1, 173:6,
173:10, 173:12,
173:18, 174:5

claims

12:9, 14:10,
47:4, 50:5,
53:19, 69:2,
113:5, 147:7

clarification

7:4, 8:17, 8:18

clarifies

23:15

class

113:22, 118:10

classroom

113:19, 113:20,
114:8, 114:13,
114:14, 152:18

clean

12:20

clear

16:21, 20:12,
21:4, 21:20,
22:2, 22:9,
23:8, 28:4,
34:2, 57:16,
61:9, 64:7,
72:1, 82:18,
83:20, 88:12,
89:2, 145:8,
145:11, 148:18,
150:3, 152:15,
155:6, 169:1,
171:20

clearly

32:1, 32:3,
69:3, 71:6,
86:17, 87:8,
90:14, 119:9,
123:10, 147:22

clicks

80:3

close

66:16

code 159:1	communications 26:5, 49:19, 53:12, 92:11, 158:14	confidential 108:3	131:2, 142:19
colleague 161:11	company 6:5	configuration 154:2	connection 25:17, 31:9, 112:7, 130:5, 134:15, 139:19, 140:9, 140:11, 142:9, 146:2, 148:7, 158:8, 168:11, 170:6, 170:20, 172:2, 176:14
column 36:11, 43:22, 44:4, 44:5, 126:17, 138:2	complete 8:11, 153:17, 179:5	configurations 154:10, 154:11	connections 159:16
combination 51:16, 68:16	completely 29:11	configured 54:19, 57:9, 139:17	connects 57:20, 59:6
come 13:1, 90:3, 97:2, 97:6, 109:13, 114:2, 131:17, 133:15, 134:1, 152:17, 161:12	components 173:18	confine 173:22	consider 22:1, 22:3, 138:7, 143:22, 145:15, 166:21
comes 10:21, 139:1	comprises 20:9, 129:8, 130:11, 151:22	confirm 9:14, 44:3, 64:21, 78:4, 100:15, 163:5, 170:15	construction 19:11, 19:17, 19:20, 20:1, 20:7, 20:10, 20:11, 20:15, 20:19, 20:22, 21:2, 21:9, 21:11, 21:14, 21:19, 22:1, 22:4, 22:12, 22:14, 23:2, 23:6, 23:10, 162:19, 163:9, 163:13, 163:20, 166:7, 166:9, 167:6, 167:8, 167:11, 167:14, 167:16, 167:18, 167:19, 167:20, 167:21, 168:1, 169:12, 175:3, 176:11, 176:19
comfortable 59:19	computer 37:11, 37:14, 37:22, 38:3, 38:7, 44:20, 45:4	confirming 164:19	construed 20:14, 20:20
coming 94:3, 135:10, 152:18	computers 36:16, 38:14, 38:17, 38:18	conflict 154:5, 164:7, 165:7, 165:9	contains 151:22
comma 66:1	computing 27:22, 28:10	conflicted 165:5	contends 69:15
command 47:15, 49:20, 54:8, 54:21, 55:7, 55:13, 57:11, 57:22, 71:15	concept 123:3, 125:10	confusing 54:4	content 23:9, 25:18,
commencement 180:7	conclude 161:13	connect 54:19, 57:9, 93:3, 109:1, 111:7, 111:9, 112:12, 113:12, 113:14, 115:6, 130:16, 130:17, 131:5, 131:6, 131:13, 136:21, 143:12, 146:21, 151:15, 152:6, 152:19, 152:21	
commission 181:11	conclusion 70:4, 70:21, 71:4, 134:4, 137:20	connected 41:19, 55:1, 57:13, 66:18, 67:8, 112:18, 112:19, 115:2, 124:6, 130:4, 153:7, 157:1, 159:5, 170:6, 170:16	
commonwealth 2:6, 180:3, 181:16	conclusions 17:14, 109:19, 147:5	connecting 126:8, 127:12,	
communicate 91:20, 92:5, 92:6, 129:6, 130:19	condition 32:4		
communicates 45:12, 136:18, 136:20	conducted 1:15, 2:2		
communicating 92:9	confer 161:10		
	conference 108:3		

35:10, 35:11,
38:19, 45:14,
46:4
context
37:6, 37:10,
110:6
continue
104:5
continues
103:5, 103:11,
104:1
contradicting
173:4
controlled
67:13
controlling
35:8, 71:17,
72:4, 86:14,
147:2
controls
47:5, 47:15,
47:22, 49:21,
52:20, 53:11,
55:7, 55:13,
57:22, 58:17,
59:7, 60:14,
61:7, 86:21,
87:20, 91:4,
91:16, 125:9,
125:18, 127:19,
131:12
conversation
65:15
convincing
14:16
copy
12:15
corner
9:13, 10:4,
14:3, 23:21,
103:10
correction
6:19
corrections
179:6
correctly
16:22, 105:11,
139:5

correspond
69:16, 70:12,
78:9
corresponding
78:12, 103:2
corresponds
51:1, 51:17,
53:9, 68:20,
102:15
could
28:14, 28:15,
29:9, 32:2,
32:7, 33:18,
35:16, 36:20,
37:8, 38:2,
38:16, 41:1,
42:15, 42:17,
42:20, 43:5,
43:11, 43:20,
44:19, 44:21,
45:3, 45:17,
46:4, 49:8,
52:4, 59:2,
78:17, 85:11,
90:3, 90:5,
92:13, 92:15,
105:3, 105:5,
109:3, 109:4,
116:3, 120:1,
120:5, 125:11,
132:21, 146:14,
157:4, 169:4,
170:9, 172:8,
172:9
counsel
6:15, 7:16,
10:22, 13:9,
162:8, 162:9,
162:17, 163:7,
164:4, 166:3,
166:12, 174:3,
180:13
couple
46:1
course
154:21
court
7:9, 34:11

cover
138:19, 138:22
covered
142:3, 142:22
criminal
15:3
cut
36:6, 37:15,
157:8

D

data
35:9, 71:18,
72:5, 144:6,
160:20
date
6:8, 179:10
dated
9:15
day
155:16, 161:2,
162:11, 177:17,
181:9
days
8:2
dc
3:20
debbie
7:10
debra
1:22, 2:5,
180:2
decide
121:6
decided
16:4, 16:5,
117:3
decides
126:1, 130:3
declaration
9:2, 9:3, 9:8,
9:19, 10:15,
11:9, 13:20,
17:11, 18:20,
19:6, 20:18,
21:7, 22:13,
22:18, 22:19,
22:22, 23:9,

23:18, 29:22,
30:12, 34:9,
34:22, 55:19,
56:8, 56:11,
56:14, 56:18,
56:19, 58:6,
65:9, 65:17,
71:13, 73:7,
82:8, 86:19,
88:17, 106:16,
110:8, 111:16,
111:19, 112:1,
122:16, 123:11,
124:17, 128:1,
133:3, 133:4,
133:5, 133:18,
134:5, 139:11,
139:12, 139:16,
146:12, 147:12,
153:13, 163:1,
163:3, 164:9,
164:17, 164:19,
165:3, 165:14,
165:16, 165:20,
165:21, 166:1,
166:14, 176:1,
176:7, 176:9,
177:5
declined
151:15
decreased
80:22, 82:1,
83:1, 84:7,
86:7, 88:6,
89:14, 91:1,
91:18, 91:19,
105:21
dedicated
154:2
defined
150:10
defines
112:5
definitely
36:4, 48:6,
84:14, 118:8,
118:12, 121:6,
175:21

degree 108:4	designs 153:17	152:4, 152:9, 159:4	159:19, 159:22, 160:2, 160:5, 160:19, 161:1
depend 152:21	desktop 27:21, 28:9	diagram 155:7	directed 24:7
depends 118:2, 119:6, 130:19, 131:2, 151:19	details 26:3, 142:12	difference 135:9, 136:1	directly 20:16, 21:8, 45:7, 61:7, 67:20, 80:10, 127:10, 128:18
depicted 69:8	determinative 132:9	differences 164:22	disables 112:12
deponent 179:1	determine 152:12	different 24:8, 28:14, 29:11, 38:22, 44:13, 58:18, 60:15, 60:17, 63:5, 85:12, 85:13, 92:4, 95:2, 96:17, 96:20, 96:21, 97:3, 97:13, 108:10, 108:12, 108:17, 109:4, 109:19, 110:2, 110:20, 115:7, 116:9, 120:21, 123:21, 128:16, 132:19, 135:16, 135:17, 135:21, 138:15, 141:19, 146:15, 148:10, 153:18, 170:21	disagree 20:6, 20:18, 20:21, 21:3, 21:18, 22:6, 22:9, 23:9, 53:21, 88:14, 88:16, 94:10, 100:18, 108:13, 129:19, 129:20, 159:9, 160:3, 166:19, 167:7, 167:19, 167:21, 168:2, 168:18, 169:10, 169:15, 172:11, 174:20, 175:2, 175:7, 175:8, 176:11
depos 6:11, 7:11	determined 134:19	digital 31:12, 31:17	disagreed 21:5
deposed 8:1	determines 129:5	direct 26:10, 26:20, 30:19, 30:20, 30:22, 31:10, 32:5, 39:10, 58:22, 67:1, 77:9, 127:6, 155:19, 156:7, 156:8, 156:20, 157:1, 157:7, 157:15, 157:16, 157:22, 158:2, 158:5, 158:13, 159:7, 159:11, 159:13, 159:15,	disagreeing 22:11, 22:12
deposition 1:13, 2:1, 5:9, 6:3, 6:13, 6:20, 34:13, 64:4, 65:9, 122:12, 155:17, 161:13, 177:14, 177:21, 180:6, 180:8, 180:14, 180:16	developed 25:17		disagreement 20:9, 20:15, 55:20, 89:1
describe 45:13, 71:14, 107:5	device's 93:15		disclose 18:6, 39:2, 43:11, 126:7, 146:16
described 50:4, 69:3, 73:17, 100:9, 101:10, 117:10, 127:4, 133:11, 135:7, 158:20	devices 24:16, 25:3, 25:4, 35:9, 35:16, 38:13, 38:16, 38:18, 39:3, 39:4, 46:17, 48:7, 48:21, 50:9, 50:11, 50:13, 60:7, 67:8, 69:6, 69:10, 69:15, 70:2, 70:3, 70:12, 71:9, 75:8, 79:12, 84:5, 87:10, 97:9, 97:14, 102:8, 103:13, 108:14, 117:3, 119:22, 120:2, 123:2, 123:9, 123:12, 123:14, 123:17, 123:19, 124:1, 124:18, 125:3, 125:9, 125:12, 126:7, 129:15, 130:18, 131:13, 132:10, 132:14, 146:17, 147:1, 151:9, 152:3,		disclosed 47:9, 56:2, 58:6, 86:17, 116:17, 131:22, 134:6, 145:17, 156:9
describes 35:8, 37:13, 62:16, 140:3			discloses 39:8, 47:2,
description 100:13, 101:4, 149:10			
deserve 149:15			
design 121:10			
designated 133:10, 135:5, 149:2			
designed 121:13			

117:2, 120:20
disclosing
86:1
disclosure
24:22, 45:9,
46:15, 85:10,
86:20, 92:4,
92:17, 94:17,
100:4, 100:17,
102:6, 108:7,
113:7, 119:8,
123:12, 123:19,
138:7, 144:9
disclosures
30:6, 121:7,
126:6, 171:16
discovery
33:6, 33:13
discrepancy
13:10
discuss
110:11, 111:22
discussed
10:15, 29:13,
42:15, 43:3,
50:10, 50:12,
50:14, 51:22,
54:11, 61:17,
65:1, 68:16,
73:5, 84:11,
110:21, 116:20,
124:4, 172:5,
176:21
discusses
32:17
discussing
65:5, 73:6,
82:6, 86:19,
94:9, 95:11,
116:18, 133:16
discussion
23:13, 30:19,
44:2, 76:19,
86:12, 86:13,
95:17, 95:20,
124:9, 128:2,
162:21, 164:2,
164:10, 164:15

discussions
10:21, 11:10,
64:4, 64:8
displaces
99:17
display
37:2, 39:15,
39:16, 39:18,
39:19, 40:13,
40:15, 40:16,
40:20, 41:1,
41:7, 41:20,
41:21, 42:7,
42:8, 42:9,
42:14, 42:18,
43:2, 43:3,
43:11, 43:16,
43:21, 45:15,
45:18, 46:5,
46:9, 46:20,
47:6, 47:11,
50:15, 52:17,
54:9, 54:22,
57:12, 68:11,
87:14, 100:1,
147:3, 160:17
display-control
71:15
displayed
39:5, 45:18,
46:5, 50:1,
53:12, 55:9,
55:15, 58:2,
60:8, 62:22,
63:3, 68:11,
97:19, 102:10
displaying
25:18, 40:14,
41:10, 42:7,
43:9, 102:18,
125:13, 137:14
displays
35:11, 43:8,
47:21, 48:1,
48:2, 49:13,
52:22, 69:13,
71:17, 72:5
distinct
153:16

distinction
38:6, 48:19,
157:6
distinguish
44:10
distinguishes
136:2
division
159:1
dla
3:4, 3:11,
6:17, 7:1
dlna
5:10, 31:18,
32:2, 32:10,
32:17, 33:1,
33:4, 33:11,
34:3, 64:15,
64:17, 65:1,
156:4, 156:5,
157:1, 157:6
document
9:13, 10:2,
32:10, 34:7,
34:14, 56:19,
64:22, 65:4
documents
8:22
dog
96:3
doing
7:20, 75:8,
76:13, 115:5,
117:16, 131:20,
144:14
domino
99:11, 101:17,
102:1
done
17:6, 33:20,
61:9, 137:4,
137:6, 153:10,
153:11, 161:10
doubt
15:2
down
33:3, 54:2,
98:13, 99:3,

99:19
download
12:21
downloaded
13:12
dr
6:3, 7:18,
13:16, 17:19,
22:8, 22:15,
23:16, 30:14,
32:12, 34:21,
51:5, 51:12,
53:17, 63:12,
64:2, 64:20,
65:14, 117:15,
122:8, 144:15,
152:16, 162:1,
162:11, 166:5,
167:9, 177:16,
177:21
draw
109:18
drive
3:6, 6:12
drop
32:9
duly
7:15, 180:7
during
64:3, 64:16,
122:10, 162:4

E

e-notary
2:6, 180:2,
181:15
each
8:8, 105:10,
117:2, 119:13,
120:2, 123:14,
140:12, 141:7,
154:1, 164:7,
165:5, 165:7
earlier
13:20, 39:21,
52:14, 64:15,
65:1, 66:8,
69:1, 69:22,

94:6, 120:9,
147:13, 155:16,
156:21, 161:2,
162:14, 163:7,
166:6, 166:17
eastern
6:9, 109:8,
109:14
easy
14:19, 96:8
edt
1:17, 178:2,
180:19
effect
101:18, 102:1
either
39:9, 108:7,
159:13
electronic
64:9, 122:12
electronics
1:4, 1:6, 6:5
element
19:12, 19:17,
20:2, 22:2,
23:10, 162:19,
163:2
elements
154:12
else
11:4, 32:8,
109:17, 109:21,
123:20, 124:7,
126:5, 144:12,
154:22, 172:10
emails
64:9
embodiment
116:10, 116:18,
116:20, 116:21,
117:1, 117:11,
126:17, 126:22,
127:1, 128:12,
128:15, 149:7,
149:9, 149:14,
154:1, 155:2,
155:4, 155:9,
165:12

embodiments
43:19, 68:9,
116:9, 116:11,
116:14, 149:16,
153:16, 154:9,
154:14, 155:13,
164:6, 164:21,
165:1, 165:5,
165:7, 170:1,
170:8
emil
4:4, 6:10
emphasis
8:4
employed
181:3
enablement
141:20
enables
112:11
enabling
31:11, 32:7,
140:13, 141:8,
141:18
enactive
136:5
end
141:5, 177:14,
177:20
english
40:19
enjoy
11:21
enough
16:8, 145:8
enters
114:19
entire
132:13
entirety
70:21, 70:22
entitled
9:19, 10:7
environment
154:15
equivalent
15:1, 51:11,
51:12, 123:3,

123:13, 124:19
errata
179:7
esquire
3:3, 3:10, 3:17
essence
53:5
essentially
99:14
establish
139:19, 142:9
established
32:6, 54:6
establishing
31:9, 146:1
et
6:5, 38:18,
112:2, 129:17,
136:22, 159:2
even
20:16, 21:8,
26:14, 33:17,
77:21, 104:8,
113:1, 166:19
eventually
80:14, 86:22,
102:6, 106:9,
115:16
ever
32:18
every
116:10
everybody
12:22, 63:14,
65:7, 161:14
everyone
124:6, 150:19
everything
99:15, 103:19,
119:14, 121:7,
139:13, 144:8,
165:3, 165:15,
165:22
evidence
14:16, 15:10,
16:21, 17:3
ex
13:17, 64:22

exactly
57:4, 62:4,
71:3, 78:4,
93:17, 103:20,
112:1, 119:3,
139:9, 139:12,
140:22
examination
5:2, 7:16,
16:2, 162:9,
166:3
examined
179:3
examiner
16:3, 16:4
example
27:14, 27:22,
30:5, 30:21,
34:4, 37:10,
37:14, 37:17,
43:15, 50:7,
51:7, 51:19,
51:20, 52:11,
72:18, 74:10,
75:1, 75:14,
75:21, 76:7,
77:13, 78:19,
79:3, 80:4,
81:6, 83:6,
92:20, 101:8,
101:9, 101:15,
101:19, 104:22,
105:12, 107:22,
127:1, 127:5,
127:7, 141:20,
141:22, 155:7,
156:22, 157:14,
158:11, 170:17
examples
15:10, 25:9,
35:10, 35:15,
36:15, 38:15,
43:13, 45:17,
45:22, 46:11,
46:12, 48:13,
52:9, 54:11,
69:6, 126:10,
140:3, 140:12,

141:7, 156:12,
170:9, 171:2,
171:10, 173:9,
173:11
excluded
34:3
exclusive
153:18
excuse
106:16, 165:1
exhibit
5:9, 5:10,
5:14, 5:15,
5:16, 5:17, 9:4,
9:5, 9:12, 9:17,
11:14, 13:11,
13:12, 13:13,
23:18, 27:2,
27:3, 29:22,
34:9, 34:13,
34:16, 34:20,
34:22, 35:5,
35:18, 35:20,
37:20, 54:15,
56:14, 64:16,
64:17, 64:18,
64:22, 65:8,
65:17, 106:17,
146:12, 163:1
exhibits
5:7, 5:12
existing
33:4, 133:9,
135:4
exists
172:19
expanding
119:21
expect
18:4
expected
174:7
experience
11:6
expert
17:15, 17:18
expires
181:11

explain
59:17, 92:3,
111:17, 112:1,
140:2, 165:3,
169:20
explained
131:16, 170:22
explaining
167:6
explains
71:3, 101:2,
109:18, 134:4,
139:12, 140:22,
159:4
explanation
149:6
explicitly
61:5, 123:15,
166:20
express
18:3, 167:9,
167:14
expressed
88:17, 167:1
external
111:8, 123:4,
146:16, 146:20
F
face
20:13, 21:4,
96:18, 97:10,
98:7, 98:13,
99:20
fact
8:2, 28:20,
71:5, 100:14,
108:17, 118:4,
124:18, 144:2,
154:14, 159:10,
164:3, 166:19,
172:11, 172:22,
176:8
fair
28:8, 148:2
far
20:21, 44:18,
46:18, 162:11,

170:12
fashion
46:20, 55:9
fast
12:14, 34:11
features
49:1, 153:19
feel
35:17, 154:21
few
8:2, 8:3,
162:13, 162:15,
176:4
fidelity
157:15, 160:5
field
24:8, 127:4,
128:17
fifth
3:12
figure
41:12, 41:15,
42:2, 42:5,
42:14, 42:21,
63:7, 67:21,
68:2, 68:5,
68:12, 69:6,
69:8, 69:16,
73:1, 95:15,
95:22, 96:9,
96:13, 97:4,
97:8, 97:12,
97:16, 97:17,
97:20, 98:1,
98:2, 98:6,
98:10, 99:6,
99:8, 99:9,
100:8, 100:17,
101:5, 101:16,
103:3, 104:18,
124:2, 124:3,
128:10, 154:14,
155:6, 155:12,
161:3, 161:4,
161:5
figures
95:19, 100:2
file
13:17, 65:10

final
165:18
finally
76:6
financially
181:5
find
56:16, 126:11,
128:4, 155:19,
166:15, 170:10
fine
7:22
finish
82:14, 132:4,
137:5, 140:20,
174:4
first
35:12, 46:18,
47:4, 47:9,
47:20, 48:2,
49:3, 49:10,
49:18, 52:20,
53:4, 53:10,
53:20, 54:7,
54:18, 55:1,
55:6, 57:6,
57:8, 57:13,
59:20, 65:20,
89:18, 103:8,
107:14, 122:18,
124:17, 129:21,
130:2, 134:8,
136:5, 136:10,
136:15, 137:9,
138:3, 138:8,
138:11, 138:13,
138:17, 139:1,
139:3, 139:18,
140:13, 141:8,
141:19, 142:8,
143:21, 144:3,
144:12, 144:17,
144:18, 145:22,
146:6, 147:14,
155:17, 160:8,
168:14, 171:1,
171:22, 172:17,
172:18, 172:19,

176:10, 176:17	142:5, 143:3,	50:6, 53:3,	30:17, 31:2,
five	146:11, 149:12,	53:19, 68:13,	35:15, 47:17,
44:6, 161:9,	150:14, 153:2,	124:8, 124:10,	56:8, 56:16,
161:12	167:3, 168:3,	124:15, 124:16,	56:20, 62:13,
flow	169:19, 172:6,	125:6, 125:20	68:4, 73:14,
154:3	173:16, 175:6,	functionality	79:3, 111:20,
focus	176:3, 177:7	31:21, 49:9,	117:17, 118:12,
41:2, 55:19,	formed	57:5, 124:13,	118:19, 126:14,
95:19, 124:19,	29:21, 70:16	132:19, 133:1	126:19, 128:6,
136:13	forth	functionally	129:15, 133:21,
focused	19:16, 180:6	123:3, 124:19	137:21, 138:13,
156:13	found	functions	161:9
focusing	36:8, 36:13,	55:6, 123:14	given
89:18, 89:19,	137:21	fundamentally	107:22, 108:1,
89:20, 92:4	fountain	24:8	113:8, 162:14,
follow	3:5	further	179:6, 180:10
74:16	four	101:9, 140:2,	gives
following	128:21, 128:22	162:2, 166:2,	52:9, 52:11,
74:10	fox	177:14, 180:12,	160:22
follows	96:2, 96:6	180:16, 181:1	giving
7:15, 130:14	free	G	134:20
followup	35:17, 154:21	gain	global
174:4	freedom	152:10	159:1
foregoing	3:6	game	go
179:4	freely	38:4	12:22, 14:1,
forgetting	153:19	gate	25:22, 27:10,
63:1	frequency	112:11	30:15, 34:8,
form	87:20, 103:15,	gatekeeper	34:21, 36:8,
48:4, 50:2,	103:17, 104:2,	129:22, 133:10,	55:18, 56:10,
51:3, 52:3,	104:6, 104:7,	135:6, 138:9,	59:11, 63:16,
53:2, 53:16,	104:8, 104:16,	138:12, 149:3	64:14, 66:20,
55:17, 58:4,	104:17, 105:1,	gave	67:21, 68:4,
61:2, 64:8,	105:2, 106:2,	142:22, 147:13,	87:3, 87:4,
67:6, 68:22,	106:3	149:6, 155:4	87:11, 90:10,
69:12, 69:19,	front	general	92:14, 95:17,
76:17, 79:20,	9:7, 13:18	18:21, 26:14,	97:16, 101:3,
83:19, 85:22,	full	26:15, 39:1,	101:13, 106:2,
86:11, 88:15,	71:13	108:16, 108:20,	106:15, 107:12,
90:13, 91:6,	function	111:9, 115:11,	110:4, 113:13,
94:5, 100:11,	39:15, 39:18,	124:16, 135:20,	115:5, 121:21,
102:4, 103:7,	40:14, 40:15,	154:12, 159:19	132:2, 132:6,
104:4, 106:4,	41:1, 41:8,	generally	133:2, 137:3,
110:13, 114:16,	42:7, 42:8,	100:16	139:8, 139:10,
116:1, 117:21,	52:17, 127:9,	getting	139:11, 140:18,
119:5, 120:17,	127:10	17:2, 77:20	142:12, 147:21,
121:12, 122:13,	functionalities	give	153:8, 153:12,
130:22, 132:15,	41:5, 47:8,	8:9, 17:21,	157:8, 158:21,
136:3, 139:7,	47:13, 50:3,		161:11, 163:17,

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

194

170:9, 176:10
goes
60:21, 67:18,
99:20, 99:21,
103:21, 160:11
going
12:20, 13:4,
18:5, 26:2,
27:1, 27:10,
32:9, 36:10,
37:2, 39:5,
40:20, 42:1,
42:22, 43:19,
45:21, 46:10,
46:18, 46:19,
47:6, 49:22,
52:21, 53:11,
53:22, 55:8,
59:14, 63:13,
63:19, 66:10,
67:4, 68:9,
68:11, 70:14,
72:9, 73:1,
74:16, 75:9,
75:22, 76:1,
77:2, 77:9,
78:17, 78:18,
78:22, 79:15,
83:17, 84:19,
86:10, 87:12,
87:13, 87:15,
88:10, 93:11,
93:20, 95:19,
96:2, 96:7,
98:18, 104:16,
105:3, 105:15,
106:2, 109:12,
114:6, 116:15,
121:9, 121:17,
122:2, 122:15,
126:1, 126:2,
127:15, 127:20,
129:5, 129:14,
131:13, 132:10,
145:21, 150:10,
151:11, 152:12,
152:20, 152:21,
161:18, 164:18,

166:6, 170:1,
177:22
good
7:18, 7:20,
34:18, 63:14,
119:3, 177:17
granted
12:5, 14:21,
15:6, 15:7,
15:21, 16:1,
16:6, 18:3,
18:4, 133:9,
135:5, 149:2,
152:1, 152:4,
152:12, 152:14
great
137:8
group
113:13, 113:15,
114:1, 114:18,
115:3, 125:18,
125:22, 126:2,
126:3, 127:2,
127:5, 127:7,
128:17, 129:6,
130:14, 133:9,
133:15, 134:18,
135:2, 135:3,
135:4, 150:3,
150:9, 150:11,
150:21, 150:22,
151:10, 151:16,
151:20, 152:22
group-level
133:7, 148:14,
148:22, 151:18
gsm
159:1
guess
26:18, 87:1,
92:3, 121:9,
151:15

H

hand
181:9
handling
144:3

happen
71:10, 79:1,
87:13, 93:18,
101:12, 104:20,
105:4, 105:5,
116:3, 144:13,
147:2, 169:4
happened
93:1, 97:18,
102:5
happens
81:7, 90:12,
92:18, 99:14,
100:4, 101:18,
102:2, 102:21,
172:17
hard
139:9
head
36:3, 45:16,
46:2, 59:12,
62:2, 62:7,
63:9, 85:9,
109:20
heading
11:16, 14:4,
19:11, 24:2,
32:22, 72:17,
73:5
headquartered
6:11
heard
16:20, 29:12,
40:9, 144:20
heck
117:18
heintz
3:3, 5:3, 5:5,
6:17, 7:17,
12:19, 13:3,
13:9, 13:15,
34:15, 34:19,
63:12, 63:16,
64:1, 64:13,
65:7, 65:13,
121:17, 121:21,
122:7, 161:9,
161:16, 162:1,

162:7, 163:15,
164:12, 165:8,
166:4, 177:13
hello
122:9
help
36:12, 37:15,
111:18
helpful
140:3
here
6:2, 11:8,
17:6, 18:2,
18:7, 18:19,
20:16, 21:1,
21:12, 22:4,
22:9, 25:11,
28:8, 29:8,
29:19, 30:4,
30:18, 31:22,
32:3, 33:15,
41:2, 58:13,
61:5, 67:3,
67:10, 67:11,
73:13, 82:18,
83:6, 83:20,
84:11, 87:5,
90:15, 100:8,
110:1, 111:5,
123:10, 124:20,
129:2, 130:10,
134:11, 135:9,
140:2, 142:20,
148:1, 149:5,
149:13, 150:8,
150:17, 151:5,
155:19, 158:7,
158:18, 158:22,
159:10, 164:3,
165:18, 165:20,
165:21, 175:13,
175:16, 177:8,
177:17
hereby
179:2, 180:3
hereinbefore
180:6
hereunto
181:8

hi	106:7, 106:12	99:13, 101:21,	52:1, 52:10,
122:8	hour	103:6, 160:17,	52:12, 76:13,
hierarchical	63:13, 106:15,	160:19	132:13, 156:3
123:8	121:18, 164:4	images	including
hierarchy	hours	38:19, 46:13,	33:5, 64:9,
122:20, 125:2,	162:15	51:20, 96:20,	122:12, 140:4,
125:4, 132:12,	housekeeping	96:21, 97:1,	140:11, 156:4
132:17, 132:20,	34:11, 64:14	97:13	incorporates
133:11, 135:7,	hungerford	implement	33:4
149:4	6:11	91:10, 91:11,	increase
high	hyphen	91:13, 117:6,	81:11, 86:10
12:9, 14:11,	32:10	118:12, 119:4,	increased
14:13, 14:18,	hypothetical	120:11, 121:6,	80:22, 81:22,
14:22, 15:14,	117:22, 119:7,	171:6	83:1, 84:7,
15:16, 17:19,	120:5, 120:7	implementation	86:6, 88:5,
17:22, 26:1,	hypothetically	113:6	89:14, 91:1,
26:4, 66:22,	42:17, 118:16	implementations	91:17, 91:19,
91:22, 92:19,	I	165:10	105:20
93:3, 93:12,	id	implemented	increases
95:6, 95:7,	83:10, 84:17,	120:14, 124:8,	81:11
105:1, 108:3,	88:21	124:10, 125:21	indicating
113:20, 117:16,	identification	implementing	60:7, 112:6
118:18, 119:1,	64:18, 79:4,	117:15, 118:8,	indirectly
119:2, 121:10,	79:14, 80:5,	119:1, 121:3,	22:6, 86:22
121:14	83:7, 83:16,	125:6	inform
high-frequency	83:22, 84:4,	implements	145:19
85:20	84:16, 88:2,	53:18, 91:8,	information-proc-
higher	90:1, 90:6,	133:1	essing
104:17, 106:3,	90:9, 90:11,	implies	42:19
125:1, 132:12,	105:17	169:2	informed
132:13, 132:17,	identified	importance	171:15
132:20, 132:21	16:3, 17:12,	108:4	informs
highlighting	17:17, 68:17	important	88:20, 93:2,
12:15, 13:21	identifies	8:6, 48:18,	93:6, 93:8,
highly	94:22	109:11, 175:20	94:21, 130:6,
108:3	identify	inadvertent	133:20
hint	87:15	13:10	initially
128:6	illustrating	inc	95:12
home	155:7	1:6	initiate
44:16, 152:17	image	include	127:12, 137:10,
hopefully	24:14, 31:11,	33:11, 35:10,	138:17
114:9	32:7, 35:9,	40:21, 44:21,	initiated
horse	40:14, 42:8,	45:5, 69:6,	127:8
96:18, 97:9,	60:6, 62:9,	164:20, 168:10,	initiates
97:22, 98:3,	62:22, 73:15,	176:12	94:10, 130:1,
99:21, 104:11,	74:4, 98:7,	included	146:7, 147:15
104:15, 104:17,	98:19, 99:7,	34:3, 44:14	initiating
105:12, 106:1,		includes	142:16
		31:18, 41:20,	

input 11:10, 60:8, 60:11	invalidity 12:8, 14:10	180:18, 181:9	158:19, 159:12, 160:5, 160:9
installation 155:7	investigating 29:21	K	language 20:12, 47:18, 57:14, 145:21, 171:20
installed 134:14, 148:6	involve 141:17	keep 162:12	
instance 58:1, 87:11, 104:10, 105:22, 115:14	involved 129:2	keeping 42:2	
instead 27:20, 28:21, 29:2, 32:2, 139:8, 157:1, 157:3, 158:4, 159:11, 159:16	involves 140:13, 141:3, 141:8	keeps 150:18	laptop 36:16, 37:11, 37:13, 37:21, 38:7, 38:14, 44:20, 45:3, 45:14, 46:8, 48:14, 50:14, 50:18
instruction 67:1, 67:4	ipr 1:7, 6:7, 6:21, 7:8, 9:2, 9:9, 12:3, 18:12	key 67:3	laptops 38:17
instructions 8:3	irrelevant 71:11	kind 17:22, 26:20, 39:2, 43:2, 43:3, 62:8, 89:15, 99:11, 124:21, 125:12, 146:19, 168:15, 168:20, 169:13, 169:16, 173:7, 173:13, 174:11	last 11:7, 27:19, 28:20, 72:2, 72:3, 89:19, 141:6, 159:20, 160:10, 160:11, 160:13, 164:4, 168:19, 169:11
interact 42:19	isolation 136:14	know 8:1, 8:17, 11:7, 12:19, 29:8, 29:16, 29:19, 31:19, 32:12, 36:9, 41:13, 54:16, 62:15, 72:10, 84:10, 95:16, 106:19, 118:2, 118:14, 118:16, 144:14, 149:20, 157:11, 161:7, 175:14	later 31:6, 133:20
interested 181:5	issue 78:10, 110:4		law 18:21
intermixed 153:20	issues 16:4		lawyer 10:10, 10:12
internal 123:4, 144:4, 146:18	itself 28:12, 41:3, 41:4, 56:19, 169:22, 174:5		least 38:14, 40:21, 47:4, 67:19, 68:9, 69:15, 94:12
interpretation 139:4, 148:11, 162:18, 167:22	iwami's 100:3, 113:5, 114:5, 117:15, 122:19, 123:7, 152:19		leave 114:1
interpreted 169:5	J		leaves 114:14
interrupted 137:7	james 3:3, 6:17	known 15:10, 119:3	left 96:13
interrupting 140:19	jim 7:4, 7:7	L	legal 9:19, 10:8, 10:14
invalid 14:17, 16:16, 17:5, 17:8	job 1:20	labeled 13:17, 32:10, 41:16, 64:17, 74:21	less 20:9, 20:14, 25:18, 26:1, 29:7, 30:5,
invalidate 14:19, 15:8, 16:9	join 135:22	lack 108:8, 177:13	
invalidated 15:22	jump 12:13, 34:10	lacks 122:19	
invalidates 17:9	jumping 162:15	lan 158:4, 158:11,	
	june 1:16, 6:8,		

111:15, 119:17,
123:13, 129:22,
130:7, 134:3,
134:5, 134:7,
135:13, 136:15,
138:8, 140:5,
140:22, 159:3,
169:2, 172:15

let's

15:15, 19:5,
23:17, 30:15,
45:12, 47:17,
48:8, 54:14,
55:18, 56:7,
79:19, 79:21,
92:17, 95:6,
95:15, 107:12,
110:4, 119:15,
129:11, 133:2,
147:2, 149:17,
152:15, 153:8,
153:12, 154:19,
157:8, 161:4,
169:9, 176:10

level

26:2, 26:4,
67:1, 135:3,
151:20

lexicon

83:14

light

42:21, 138:5,
143:20

limit

168:15, 168:20,
169:3, 169:13,
173:7, 174:10

limitation

55:10, 57:8,
137:11, 137:20,
140:1, 141:1,
144:1, 148:12,
148:15, 166:10,
172:5, 173:1,
173:19

limitations

136:12, 137:12,
147:7, 171:16

limited

24:20, 25:7,
26:12, 28:5,
32:1, 46:16,
147:14, 156:2,
156:8, 156:11,
156:18, 159:19,
171:10, 171:12,
172:5, 173:10,
173:12, 173:14

limits

121:7

line

33:3, 36:11,
44:7, 44:8,
138:2

lines

44:1

link

157:16, 158:5,
159:14, 160:6

list

131:5, 131:6,
131:7, 135:12

listed

167:15

literally

23:1

little

38:22, 44:10,
64:13, 106:14,
138:14

living

31:12, 31:17

llp

3:4, 3:11

location

112:10, 113:11

location-based

112:16

logics

154:5

long

162:12

longer

97:20

look

27:1, 36:6,

36:10, 37:16,
39:11, 45:19,
46:14, 56:8,
56:13, 67:21,
76:18, 95:15,
97:7, 104:11,
119:15, 124:2,
126:11, 128:1,
137:22, 146:13,
149:17, 149:22,
154:19, 154:22

looked

64:22

looking

13:20, 17:11,
40:7, 73:12,
111:19, 126:15,
126:16, 160:10

looks

12:16

lost

137:21

loud

59:16

low

91:22, 92:19

low-frequency

85:17

lower

9:13, 10:3,
14:2, 23:21,
68:2, 98:9,
103:15, 103:17,
104:2, 104:5,
104:7, 104:12,
104:16, 106:2

lowest

98:1

lunch

121:18, 122:10

M**m-i-r-a-c-a-s-t**

24:17

made

17:14

main

100:20, 175:8

make

12:14, 12:17,
18:18, 34:12,
40:10, 44:11,
48:19, 67:22,
73:10, 75:9,
84:10, 96:7,
116:5, 134:4,
138:7, 147:2,
150:2, 152:15,
161:4, 171:7

makes

28:4, 70:5,
172:15, 172:22

making

15:4

managed

144:15

management

33:6, 33:12,
33:13, 125:18,
125:19, 125:22,
150:4, 150:11,
150:22, 151:10,
151:16, 152:22

manages

71:8, 71:9,
130:16

managing

25:1

mandatory

105:2

manipulating

77:5

manipulation

60:11, 75:2,
75:15, 75:16,
76:8, 77:13,
79:1, 79:5,
80:1, 80:6,
80:21, 81:11,
81:22, 82:22,
83:8, 86:6,
88:5, 88:8,
89:13, 90:22,
105:20, 134:20

many

18:5, 41:4,

50:4, 121:3,
128:14, 131:15,
136:12, 145:15
marked
5:7, 5:12, 9:4,
9:5, 10:3, 14:2,
19:7, 23:20,
27:3, 34:13,
34:20, 35:4,
35:20, 64:18,
76:19
marks
177:20
marriage
181:3
maryland
6:12
match
76:4
matt
34:17
matter
6:4, 119:8,
122:11, 146:22,
172:16, 172:18,
172:19, 181:6
matthew
3:17, 7:5
maxell
1:9, 6:5, 7:6,
10:22, 180:13
maybe
37:22, 67:1,
96:3, 103:17,
123:16
mayer
3:18
mean
12:12, 12:19,
14:13, 14:14,
14:18, 15:6,
15:14, 29:5,
33:18, 36:5,
36:22, 37:15,
38:20, 44:14,
50:20, 57:4,
64:8, 83:20,
85:2, 92:2,
109:9, 112:2,
114:22, 169:6,
172:8, 172:9,
174:15
meaning
170:1, 171:15
means
17:22, 21:2,
21:7, 21:10,
71:8, 91:3,
91:18, 112:21,
122:12, 125:9,
167:7, 167:20,
169:4
meant
12:17, 15:6,
15:19, 15:20,
29:10, 30:7,
57:7, 61:22,
66:18, 112:14,
124:16, 128:11,
139:13, 140:15,
140:21, 141:1
mechanism
134:6, 134:12,
135:16, 135:17,
140:4, 141:3
mechanisms
116:9
media
6:2, 33:6,
33:12
meet
17:19
meeting
109:11, 109:14
member
113:13, 113:15
members
150:9
members-not
133:9, 135:5
memories
85:10
memory
63:4
mention
33:15, 156:19
mentioned
8:7, 63:10,
64:14, 110:3,
117:10
mesh
157:18, 157:22,
158:6, 159:14,
160:6
message
64:10, 87:14,
87:15, 87:17,
87:18, 87:19,
93:13, 94:3,
94:7, 171:19
messages
33:11, 64:9
method
73:13
middle
19:10, 41:16,
63:3, 85:18,
86:9, 96:10,
97:1, 97:19,
98:3, 99:22,
100:21, 103:4,
103:10, 104:13,
104:18, 105:14,
110:19, 115:16
might
15:2, 138:1,
145:12
mind
26:17, 38:6,
42:2, 55:18,
56:7, 56:10,
129:1, 149:18,
164:18, 165:4
mine
9:10
minimum
115:17
minoring
160:15
minute
13:1
minutes
161:9, 161:12
miracast
24:16, 24:21,
25:2, 25:5,
25:8, 25:10,
25:14, 26:10,
26:12, 26:16,
27:17, 27:21,
28:6, 28:11,
28:19, 28:21,
29:2, 29:6,
29:17, 30:4,
31:12, 32:2,
119:17, 125:14,
155:20, 156:3,
157:6, 160:14
mirroring
160:16
mischaracterizes
69:1, 69:22,
94:6, 164:12
misinterpreting
87:6
mislabeled
77:4
misquote
66:11
misspoke
39:21
mistake
77:3
mixing
29:5, 48:6
mode
58:10, 60:5,
60:10, 60:14,
60:18, 61:16,
61:22, 62:8,
62:17, 62:19,
62:21, 63:3,
63:8, 63:11,
65:22, 67:12,
67:15, 70:17,
71:7, 71:9,
72:19, 73:4,
73:6, 73:15,
73:20, 73:21,
74:4, 74:18,
75:10, 76:2,
76:14, 76:21,
77:6, 77:21,

Transcript of Radostin Pachamanov, Ph.D.
Conducted on June 17, 2026

199

78:19, 79:13,
81:8, 81:19,
82:9, 83:17,
84:11, 84:21,
85:1, 85:3,
85:5, 85:6,
85:14, 85:16,
85:18, 86:21,
87:11, 87:16,
87:20, 88:10,
88:19, 88:21,
89:5, 90:7,
92:16, 92:21,
93:4, 93:9,
93:15, 93:19,
94:2, 94:18,
94:20, 94:21,
94:22, 95:1,
95:3, 95:5,
102:7, 102:13,
102:18, 102:20,
103:6, 106:7,
106:8, 106:9,
106:10, 106:11,
171:1
modes
58:9, 58:17,
63:6, 73:14,
74:11
modular
153:19
moment
56:20, 64:20,
108:19, 126:19,
137:7, 149:18
monitor
6:9
monitoring
44:12
months
176:4, 177:4
more
20:9, 20:14,
25:18, 26:1,
29:7, 30:5,
39:17, 50:20,
79:21, 81:12,
111:15, 119:17,

121:17, 123:12,
129:22, 130:7,
134:3, 134:5,
134:7, 135:13,
136:15, 137:18,
138:8, 140:5,
140:22, 158:7,
159:3, 162:1,
164:2, 166:6,
169:2, 172:15,
175:17, 175:18
morning
7:18, 7:20
most
8:6, 33:16,
175:20
mostly
11:9, 156:13
move
86:8, 101:14
moved
98:13, 99:5,
99:15, 108:22,
115:16
moves
99:19, 100:20,
103:3, 103:9,
104:13, 105:13
much
36:6
multiple
50:9, 50:11,
119:22, 140:3,
159:1
must
138:13, 168:16,
168:21, 169:14,
169:16, 173:8,
173:13, 174:11
mutually
153:18
myself
59:17, 59:22
N
name
7:5, 162:4
namely
54:10

narrows
163:21, 166:10,
172:22
native
10:4, 11:14,
14:3, 19:8,
23:21, 35:5
near
127:4, 128:17
necessarily
28:18, 126:4,
131:1, 136:4
necessary
20:2, 20:12,
21:2, 21:9,
21:17, 22:1,
23:2, 30:2,
116:2, 116:6,
130:5, 136:21,
163:22, 167:7,
167:16, 167:20,
172:13, 175:4
need
14:15, 15:9,
16:21, 18:17,
20:22, 22:11,
23:5, 46:14,
62:9, 84:20,
103:18, 127:22,
146:17, 154:17,
177:3
needed
21:19, 95:2
needs
17:3, 20:20,
32:5, 84:10,
84:21, 93:9,
144:11
network
27:22, 28:9,
31:12, 31:17,
114:21, 130:4,
136:1, 136:22,
138:21, 143:12,
146:18, 157:18,
157:22, 158:6,
159:12, 159:14,
160:6, 170:6

never
94:8, 99:7,
109:1, 121:9
new
99:7, 99:12,
101:21, 114:1
next
9:14, 30:3,
30:10, 77:10,
106:15, 114:19
nfc
127:6, 127:7,
127:9, 127:10,
140:7
nice
118:11
nicholas
3:10, 6:22
nonclean
12:17
nonetheless
10:13, 132:2,
132:8
nonpermission
110:20, 110:21
normal
114:3
notation
9:15
notebook
37:22, 38:4,
38:7
nothing
30:11, 64:11,
66:7, 66:9,
93:20, 115:4
notice
2:5
novel
167:22
nudelman
4:3
number
6:3, 6:7, 8:22,
16:11, 16:17,
34:16, 34:20,
53:14, 64:16,
113:19, 123:16,

143:6
numbers
 9:12, 27:12,
 47:17, 48:7,
 54:4
numerical
 18:1
numerically
 15:15
nw
 3:19

O

objection
 48:4, 50:2,
 51:3, 52:3,
 53:2, 53:16,
 55:17, 58:4,
 61:2, 67:6,
 68:22, 69:12,
 69:19, 69:21,
 76:17, 79:20,
 83:19, 85:22,
 86:11, 88:15,
 90:13, 91:6,
 94:5, 100:11,
 102:4, 103:7,
 104:4, 106:4,
 110:13, 114:16,
 116:1, 117:21,
 119:5, 120:17,
 121:12, 130:22,
 132:15, 136:3,
 139:7, 142:5,
 143:3, 145:5,
 145:14, 147:17,
 149:12, 150:14,
 153:2, 163:15,
 163:16, 164:12,
 165:8, 167:3,
 167:4, 168:3,
 169:19, 172:6,
 173:16, 173:17,
 175:6, 175:15,
 176:3, 177:7
obtain
 11:4
obvious
 94:12, 94:14,

120:10, 120:15,
 120:19
obviously
 80:15, 88:16,
 100:7, 111:10,
 117:1, 120:21,
 131:5
occurred
 180:17
occurring
 92:11
october
 181:12
office
 1:1, 6:7, 16:5
offline
 161:11
oh
 25:22, 40:2,
 106:21, 108:10,
 158:17
once
 14:21, 15:5,
 15:6, 81:8,
 81:18
one
 3:5, 8:6, 9:1,
 12:9, 12:21,
 14:11, 14:13,
 14:18, 15:14,
 15:16, 16:20,
 22:19, 23:6,
 25:16, 31:3,
 36:4, 37:18,
 37:19, 43:3,
 43:13, 44:19,
 45:2, 45:22,
 46:3, 47:8,
 47:13, 49:1,
 49:19, 50:3,
 50:5, 50:6,
 50:7, 50:13,
 53:3, 55:5,
 65:2, 68:13,
 73:8, 75:7,
 76:20, 77:21,
 77:22, 79:12,
 82:17, 84:4,

85:11, 87:10,
 91:22, 92:15,
 94:19, 97:9,
 98:13, 99:3,
 99:15, 99:19,
 100:6, 100:7,
 101:9, 101:12,
 101:13, 102:7,
 102:10, 106:7,
 111:20, 113:22,
 116:18, 117:19,
 120:1, 123:17,
 124:1, 125:20,
 126:19, 128:20,
 129:22, 133:10,
 134:22, 135:5,
 136:16, 137:13,
 138:9, 141:11,
 143:21, 145:16,
 146:6, 149:2,
 151:9, 155:1,
 159:12, 159:15,
 160:17, 165:11,
 168:19, 170:12,
 170:17, 171:10,
 173:21, 176:6
ones
 27:12, 132:20
only
 6:20, 7:7,
 20:21, 21:17,
 22:10, 165:11,
 173:20, 175:2,
 175:7
open
 9:3, 13:16,
 27:8, 37:18,
 65:2
opened
 13:18, 27:9,
 32:13, 32:14
opening
 36:1
operate
 171:7
operates
 101:12
operating
 154:15

operation
 54:9, 54:22,
 57:12
opined
 21:8
opinion
 17:16, 17:20,
 20:1, 21:1,
 21:17, 29:21,
 34:3, 34:5,
 59:9, 70:16,
 71:11, 71:21,
 88:17, 111:17,
 112:15, 133:20,
 142:2, 142:21,
 147:16, 148:1,
 148:4, 148:13,
 148:19, 158:7,
 163:8, 163:12,
 163:19, 165:6,
 166:15, 166:18,
 166:22, 167:10,
 167:14, 167:15,
 173:2, 174:16,
 174:17, 174:21
opinions
 17:18, 18:19,
 146:11, 147:6,
 147:11, 147:19,
 162:18, 163:2,
 164:6, 164:8,
 164:21, 165:13,
 165:19
option
 43:5, 120:12
order
 84:9, 100:15,
 169:17, 171:6
ordinary
 15:11, 23:4,
 26:18, 118:22,
 119:12, 121:1,
 142:6, 143:22,
 144:8, 146:3,
 156:15, 170:1,
 171:4, 171:13,
 172:7, 172:14
organization
 25:4, 48:22,

Transcript of Radostin Pachamanov, Ph.D.
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201

138:21 organizational 107:1, 110:9, 110:11, 113:1 originating 97:13 other 8:8, 29:5, 29:18, 31:20, 39:6, 41:5, 44:14, 48:15, 50:4, 53:5, 54:8, 62:10, 64:4, 74:1, 81:1, 82:1, 91:2, 91:22, 100:21, 101:13, 105:11, 109:15, 112:8, 122:13, 123:8, 123:14, 125:9, 129:15, 132:10, 132:14, 132:20, 138:18, 156:3, 156:8, 158:11, 158:22, 159:5, 159:17, 160:20, 164:7, 165:5, 165:7, 165:11, 171:1, 175:8, 175:10, 175:11, 175:14, 176:5, 176:22 others 120:3 otherwise 33:22, 38:22, 114:9, 125:12, 132:2, 181:5 out 50:8, 51:5, 59:16, 77:21, 101:14, 109:22, 128:15, 152:5, 156:21 outcome 181:6 outdoor 110:3, 111:21,	112:5 outdoors 111:7 output 60:8, 60:11 outputting 160:19 outside 109:22, 111:14, 113:3, 113:14, 115:5, 138:20, 163:15 over 8:8, 91:20, 92:6, 92:9, 92:11, 113:22, 127:6 overview 24:3 own 154:2 owner 1:10, 3:16, 7:6, 162:9 p p2p 30:20 pachamanov 1:14, 2:1, 5:2, 6:4, 7:14, 7:18, 13:16, 22:8, 22:15, 23:16, 30:14, 32:12, 34:21, 63:12, 64:2, 64:20, 65:14, 117:15, 122:8, 144:15, 152:16, 162:1, 162:11, 166:5, 167:9, 177:16, 177:21, 179:2, 180:5, 180:17 pacific 109:8, 109:13 page 5:2, 5:9, 5:14, 9:11, 9:18,	10:2, 10:11, 11:13, 11:14, 11:16, 14:2, 14:3, 19:6, 19:7, 19:8, 19:10, 23:20, 23:21, 23:22, 24:2, 32:16, 32:19, 32:20, 33:16, 35:5, 40:10, 56:18, 58:7, 77:10 pages 1:21 panno 3:10, 6:22, 161:11 paradiso 17:19, 51:5, 51:12, 53:17 paragraphs 147:19, 149:11, 154:20, 155:2, 155:5, 164:16, 164:20, 165:2, 165:14, 165:16, 165:20, 166:18 parameter 112:10, 112:17 paraphrase 135:8 paren 157:15 parentheses 73:14, 75:15, 110:18 part 11:9, 15:3, 24:12, 34:13, 35:12, 45:9, 45:11, 52:1, 53:21, 56:15, 65:21, 72:2, 72:3, 89:18, 89:19, 94:10, 98:19, 103:8, 114:17, 115:3, 117:10, 123:11,	129:6, 141:6, 150:5, 154:17, 160:8, 169:11, 174:2, 175:3, 176:10, 176:19 participate 129:17, 131:14, 132:11, 151:12 particular 11:8, 14:8, 22:5, 23:11, 25:17, 28:13, 30:8, 30:20, 55:19, 60:1, 61:10, 67:10, 67:18, 71:2, 74:6, 79:14, 79:15, 83:17, 84:21, 85:7, 89:2, 99:13, 100:13, 100:14, 108:18, 109:16, 111:5, 111:10, 111:21, 112:18, 112:19, 113:6, 113:7, 125:7, 125:17, 126:21, 132:22, 133:22, 141:1, 142:13, 145:21, 147:9, 147:16, 148:15, 155:14, 156:11, 156:16, 157:7, 158:10, 160:22, 165:16, 168:19, 169:8, 169:10, 170:15, 171:18, 172:12, 173:12 parties 6:13, 6:19, 181:2, 181:4 parts 17:12, 92:4 party 180:12 pass 59:8, 127:20, 162:7
--	---	---	--

passed	patents	80:19, 81:16,	144:19, 144:22,
16:1	11:21	81:20, 82:21,	145:1, 145:22,
passes	path	84:6, 86:4,	147:15, 149:2,
43:2	71:10	88:3, 88:22,	152:7
password	patience	89:12, 90:20,	permitted
140:12	162:3	91:4, 91:16,	112:9
past	pc	105:18, 134:18,	person
164:4	38:4	138:9, 138:10,	15:11, 23:3,
patent	pdf	146:7	26:18, 64:5,
1:1, 1:2, 1:8,	10:1, 13:17,	perhaps	118:22, 119:11,
1:10, 3:16, 6:6,	32:11	36:12	120:10, 121:1,
7:6, 12:4,	peer-to-peer	peripheral	121:5, 142:6,
14:17, 14:19,	30:20, 32:5,	63:2, 63:6,	143:22, 144:8,
15:5, 15:7,	59:1, 59:6	85:6, 86:9,	146:2, 156:15,
15:21, 16:1,	peers	87:11, 96:14,	171:4, 171:13,
16:5, 16:9,	124:19	97:2, 98:2,	172:7, 172:14
16:16, 17:5,	peers-there	98:8, 98:10,	person's
17:7, 17:9,	123:3	98:20, 98:22,	138:20
18:3, 18:4,	people	99:18, 100:19,	personal
18:6, 18:12,	109:13, 109:14,	102:11, 102:19,	38:3
19:2, 24:9,	118:10	103:3, 103:4,	perspective
27:2, 35:15,	perceive	103:11, 103:14,	19:21, 22:17,
35:18, 36:1,	123:11	103:22, 104:1,	58:15, 58:18,
37:6, 37:11,	percent	104:9, 104:12,	66:20, 113:4,
38:13, 43:10,	15:16, 15:17,	105:13, 115:15,	113:10, 113:17,
45:2, 45:13,	15:19, 15:20	115:21	119:16, 120:1,
47:2, 47:10,	perform	periphery	121:5, 131:16,
48:6, 48:9,	39:19, 75:22,	116:11	132:18, 135:15,
48:15, 49:6,	123:13	permission	145:20
49:12, 49:18,	performed	108:1, 110:16,	petition
50:5, 51:2,	26:6, 60:19,	110:19, 110:21,	16:8, 17:3,
51:15, 52:11,	79:2, 79:6,	111:5, 111:22,	17:15, 17:17,
52:19, 53:6,	80:2, 80:7,	112:2, 112:5,	53:17
54:7, 54:15,	80:21, 81:22,	118:12, 118:20,	petitioner
55:5, 60:16,	83:1, 83:9,	129:15, 133:9,	16:7, 17:13,
69:18, 110:15,	83:18, 86:6,	134:21, 135:5,	19:1, 19:16,
110:17, 110:22,	88:5, 89:14,	135:13, 135:22,	19:20, 20:21,
129:14, 129:20,	89:15, 90:21,	138:3, 138:13,	21:3, 21:6,
133:12, 134:7,	91:1, 93:12,	139:2, 139:3,	21:19, 22:7,
135:7, 135:19,	105:20, 127:16,	139:18, 140:6,	22:10, 22:11,
135:20, 137:16,	133:8, 134:22,	140:7, 141:12,	23:6, 51:4,
138:6, 139:16,	135:4, 149:1	141:15, 141:16,	51:11, 53:15,
144:3, 145:18,	performing	141:21, 142:1,	53:19, 69:2,
147:8, 162:9,	39:16, 40:15,	142:8, 143:7,	69:15, 70:4,
170:2	42:9, 80:22,	143:8, 143:9,	70:10, 70:11,
patent's	81:4, 82:1,	143:10, 143:11,	162:17, 167:8,
12:9, 14:10	91:2, 144:6	143:15, 143:17,	168:9, 173:6
patentability	performs	144:11, 144:18,	petitioners
18:10	60:4, 60:9,		1:7, 3:2, 6:18,

7:2, 7:16, 12:8,
14:9, 16:19,
17:6, 17:14,
17:18, 20:7,
20:10, 20:15,
20:18, 21:11,
21:13, 22:3,
22:13, 23:10,
163:9, 163:13,
163:19, 166:3,
166:9, 167:10,
169:12

ph

1:14, 2:2, 5:2,
7:14, 179:2,
180:5, 180:17

picks

87:10

piper

3:4, 3:11,
6:18, 7:1

place

140:20, 158:1

placed

8:22, 13:13,
115:15, 115:20

places

46:1, 123:16

plain

40:19, 169:22

plainly

125:13

planet

6:11, 7:11

play

33:5

players

35:11

please

6:15, 8:17,
9:3, 13:16,
25:22, 35:17,
66:11, 82:14,
90:17, 137:4,
137:5, 161:5,
174:3

plug

33:5

plurality

60:7

plus

68:16

point

16:21, 17:4,
17:7, 33:17,
44:7, 45:22,
53:17, 54:12,
54:20, 56:21,
57:10, 59:3,
62:4, 62:16,
66:19, 67:3,
83:15, 89:22,
100:12, 101:2,
102:8, 103:21,
104:8, 104:14,
108:15, 109:19,
111:8, 112:8,
112:9, 112:18,
112:20, 115:2,
115:7, 134:16,
139:22, 150:17,
158:9, 158:15,
162:4, 162:22,
170:11

point-to-point

25:16, 26:21,
59:5, 60:20,
61:4, 61:11,
66:14

pointed

17:8, 25:11,
50:8, 124:18,
156:21, 157:3

pointing

15:8, 16:15,
51:5, 128:15

points

29:3

portable

38:4

portion

68:3, 98:8,
98:9, 161:13,
164:18

portions

53:14

posita

120:16, 145:3

position

98:1, 98:12,
98:14, 99:3,
99:15, 99:18,
99:19

possibilities

85:12, 118:5,
120:21, 141:11

possibility

94:19, 141:12,
141:14

possible

33:16, 142:10

prefer

22:20, 99:14,
139:11

prefixes

27:13

prepared

107:15, 177:2

prepopulated

131:18

present

4:2, 95:6,
106:11, 108:14,
108:16, 116:6,
117:4, 117:7,
120:3, 125:11,
127:1, 131:21,
155:9

presentation

85:16, 92:16,
92:22, 93:4,
95:1, 95:3,
95:5, 103:5,
106:7, 106:9,
106:10, 106:11,
108:2, 115:18

presenting

95:7, 119:18,
119:22

presents

153:16, 165:10

presumably

28:10, 109:9

presumption

11:17, 11:21,

12:3, 14:4,
18:8, 18:15

pretty

35:22, 155:6

previous

57:5, 82:7,
89:4, 94:17,
133:17, 149:14

previously

9:5, 27:3,
35:20, 97:18,
124:4, 152:14,
172:21

printout

32:16

prior

5:12, 16:3,
17:8, 17:13,
17:17, 32:19,
32:20, 144:12

probably

33:16

problem

13:2, 24:14,
34:15, 87:5,
146:19, 146:20

problems

153:18

procedure

127:21

proceed

7:13, 170:5

proceeding

12:3, 18:9,
18:16

proceedings

162:5

process

16:2, 127:16,
129:3, 130:1,
130:8, 134:19,
136:16, 137:10,
137:13, 143:11,
143:14

processes

43:1

processing

24:15, 31:8,

31:10, 39:18,
40:13, 41:17,
42:4, 79:7,
80:8, 80:19,
81:16, 89:11,
90:19, 112:7,
134:21
projector
39:9, 39:17,
39:20, 40:16,
40:21, 41:4,
41:5, 41:9,
42:10, 43:7,
43:8, 43:11,
43:14, 44:22,
45:5, 45:12,
46:10, 52:2,
52:10, 52:13,
54:10, 76:12,
140:9
projectors
52:10
promise
162:12
prompted
141:13
proof
16:7, 16:18
proper
15:9, 19:11
proposal
23:13
proposed
20:10, 23:7,
163:9, 163:13,
167:8
proposes
25:1
protocol
26:6, 26:9,
29:7, 29:17,
29:18, 30:8,
31:8, 32:6,
33:11, 125:15,
127:6, 127:7
provide
16:8, 18:19,
22:4, 38:18,

41:9, 41:10,
136:21, 147:6,
170:18, 170:19,
175:17, 175:21
provided
91:12, 107:8,
108:22, 141:20,
142:8, 145:7,
150:19, 152:9,
156:12, 156:13,
163:8, 164:8
provides
36:15, 45:17,
130:8, 137:19,
139:3, 140:6,
141:2, 158:19,
159:10
providing
134:9, 136:19,
144:5, 144:19,
145:1, 174:17
ptab
65:10
ptab's
13:12
ptacts
13:12
public
2:6, 33:4,
180:2, 181:15
purpose
144:15
pursuant
2:5
pushed
99:3, 100:1
put
15:19, 15:20,
16:11, 16:17,
22:17, 34:6,
44:16, 64:17,
67:11, 129:11,
176:5, 177:8,
177:10
Q
qualify
124:14, 125:4,

130:12, 132:16
question
8:9, 8:10,
8:16, 8:19,
14:12, 34:1,
45:7, 45:21,
56:3, 57:15,
57:17, 58:5,
84:19, 107:15,
118:1, 132:7,
134:1, 143:18,
144:16, 145:13,
147:9, 154:21,
159:9, 165:18,
166:17, 166:22,
167:13, 168:8,
174:1, 175:19,
177:3, 177:9
questions
8:13, 57:5,
110:6, 111:3,
155:21, 162:2,
162:13, 164:5,
166:2, 166:6,
177:15
quickly
39:13, 97:7,
126:15
quote
67:11

R
radostin
1:14, 2:1, 5:2,
6:4, 7:14,
179:2, 180:5,
180:17
rather
18:10, 58:11,
60:20, 66:2,
70:20, 76:14
reaches
80:14, 80:15,
82:4, 86:22
reaching
70:21
reaction
99:11

read
24:13, 31:2,
58:15, 58:18,
59:15, 59:17,
59:20, 60:13,
61:6, 67:10,
70:20, 70:22,
72:12, 78:3,
78:4, 79:21,
81:12, 82:19,
88:11, 88:16,
88:18, 89:3,
89:9, 90:15,
94:20, 107:14,
109:17, 111:1,
112:3, 113:5,
116:2, 127:11,
136:13, 137:18,
141:2, 141:7,
145:16, 158:3,
168:7, 179:3
reading
26:15, 40:4,
67:9, 79:9,
87:6, 88:12,
118:7, 119:11,
142:7, 144:9,
145:20, 158:9,
160:3
reads
11:17, 14:4,
14:9, 24:3,
33:4, 65:21,
71:13, 72:4,
72:18, 74:9,
74:22, 91:15,
123:2, 133:14,
145:16, 160:13
real
97:7, 126:15
real-time
24:14
really
12:14, 14:17,
18:2, 34:10,
39:14, 56:3,
58:16, 62:3,
110:16, 115:10,

117:5, 118:2,
118:11, 119:6,
120:6, 131:16,
136:5, 146:16,
151:19, 152:8,
157:5, 172:16,
172:18, 174:5
reason
12:7, 67:13,
86:18, 129:20,
148:12, 152:4,
163:20, 174:19,
175:2, 175:7,
175:8, 175:20,
177:10
reasonable
15:2
reasons
170:21, 175:9,
175:11, 175:14,
175:17, 176:5,
176:21, 176:22
recall
32:20, 85:21,
86:1, 162:16,
162:20, 163:7,
163:10, 163:11,
164:10, 177:12
receive
46:20, 51:20,
84:8, 144:11,
168:14, 168:17,
168:21, 169:14,
169:17, 171:22,
173:8, 173:14,
174:12, 176:17
received
43:12, 49:13,
52:18, 80:18,
81:8, 81:15,
82:15, 82:20,
88:1, 89:10,
89:21, 89:22,
90:11, 90:18,
105:17, 171:19,
174:7
receives
35:9, 47:6,

81:18, 84:3,
84:15, 87:17
receiving
71:15, 143:8
recent
33:16
recently
164:3
recess
13:6, 63:20,
122:4, 161:20
recites
139:16
recollection
85:10
record
6:19, 12:22,
13:5, 13:8,
13:11, 23:15,
30:9, 39:22,
63:17, 63:19,
63:22, 121:22,
122:2, 122:6,
148:18, 161:12,
161:18, 161:22,
164:13, 177:22,
178:2, 180:9
redirect
166:8
refer
35:17, 56:15,
63:7, 111:15,
127:22, 133:17,
137:15, 150:3,
154:14, 154:17,
155:12, 160:7
reference
64:15, 134:17,
156:2
referenced
49:18
references
18:5, 39:2,
107:19
referred
47:3, 49:6,
49:12, 50:22,
61:16, 155:2

referring
15:1, 30:11,
48:5, 56:18,
57:4, 124:3
refers
44:8, 44:9,
72:2, 72:6,
77:22, 83:21,
134:6, 155:19,
157:16, 157:17
reflect
13:11
reflected
146:11, 147:12
refreshes
63:4, 129:1
regardless
117:19
region
63:2, 85:6,
85:18, 86:9,
87:12, 96:10,
96:14, 97:1,
97:2, 97:19,
98:2, 98:3,
98:7, 98:9,
98:10, 98:20,
98:21, 98:22,
99:19, 99:22,
100:20, 100:21,
102:11, 103:4,
103:5, 103:12,
103:14, 103:22,
104:1, 104:12,
104:14, 104:18,
105:14, 115:15,
115:16, 115:18,
115:21
regular
170:14
related
7:7, 24:22,
79:4, 80:5,
83:7, 111:6,
155:14, 164:21,
181:1
relating
163:2

relationship
123:8
relevant
6:20, 6:21,
21:12, 21:14,
21:16, 22:5,
30:8, 116:21,
128:12, 149:11,
149:15, 165:11,
172:13
remain
170:16
remember
36:3, 46:2,
46:12, 59:12,
59:13, 62:3,
62:11, 62:18,
63:10, 109:20,
109:21, 116:19,
155:21, 155:22,
157:2, 162:21,
164:11, 170:12
remote
25:19, 27:21,
28:9, 75:15
remotely
6:14, 54:21,
57:11
repeat
8:2, 8:3,
57:15, 143:4
rephrase
102:22
reported
1:22
reporter
7:9, 8:7, 34:12
represent
6:16, 7:5,
32:15
represented
29:22, 100:2,
101:16, 180:13
representing
6:10, 6:18,
7:1, 7:10
reproduced
160:17

request

134:15, 135:10,
136:6, 136:7,
136:10, 139:2,
141:22, 143:9,
143:16, 145:1,
148:9

requested

141:15, 141:21,
143:8

requesting

134:8, 135:22,
144:5, 144:17

requests

143:15, 144:22

requirement

168:10, 176:13

requires

56:4, 60:16,
136:6, 136:9,
171:8

respect

8:13, 51:14,
69:5

respond

111:2

responded

19:2, 166:12

responds

143:17, 144:22

response

58:5, 71:16,
139:2, 143:16,
168:12, 176:15,
177:14

responsive

172:19

reston

3:7

restrict

108:18

restricting

115:4

restriction

112:15

result

76:2, 168:13,
176:16

retention

150:4, 150:11,
150:18, 150:22,
151:10, 151:14,
151:17, 152:2,
153:1

return

65:15

review

35:7, 36:6,
58:8, 133:21,
153:16

reviewed

16:3, 128:2

right-hand

9:13, 10:3,
14:3, 23:21,
41:16, 68:2

rigorous

16:2

rockville

6:12

room

9:1, 13:14,
27:6, 32:10,
64:21, 109:22,
111:12, 111:14,
113:3, 113:11,
114:1, 114:20,
115:5, 152:5

routing

112:10

running

96:18, 97:9,
97:22, 98:3,
99:21, 104:11,
104:14, 104:15,
105:12, 106:1

S**said**

17:1, 17:2,
17:4, 18:20,
20:17, 20:19,
21:14, 21:15,
22:21, 24:11,
24:13, 26:14,
28:17, 30:10,

66:12, 66:17,

71:1, 71:5,
74:2, 80:3,
89:1, 93:5,
93:17, 93:18,
93:22, 101:6,
101:8, 139:9,
139:13, 141:19,
142:10, 153:3,
155:13, 158:18,
164:14, 165:15,
165:22, 166:20,
167:15, 172:21,
173:6, 174:10,
176:12, 176:19

same

8:12, 13:19,
38:9, 40:10,

65:4, 68:1,

73:5, 73:8,

77:19, 78:5,

85:12, 110:14,

110:16, 111:12,

113:12, 114:20,

114:21, 125:13,

135:2, 135:4,

148:14, 154:9,

156:22, 167:13,

176:21, 179:4

samsung

1:4, 1:5, 6:4,

6:18, 7:1

saw

10:5, 124:9

say

11:20, 15:15,

15:21, 16:20,

17:5, 17:7,

20:4, 20:5,

21:9, 21:20,

22:9, 22:19,

24:6, 28:13,

29:12, 35:7,

36:10, 37:18,

39:14, 40:9,

41:3, 43:20,

45:8, 45:12,

46:13, 46:15,

51:6, 51:12,

58:7, 59:6,

61:3, 64:7,

67:1, 70:5,

80:9, 92:17,

96:7, 100:3,

106:21, 112:4,

116:10, 119:2,

121:5, 122:18,

134:11, 139:16,

144:21, 145:9,

148:22, 149:5,

151:17, 153:15,

154:1, 156:10,

158:16, 159:8,

160:15, 167:18,

167:20, 169:15,

174:8

saying

15:5, 16:12,

16:16, 16:17,

19:19, 20:8,

20:11, 21:1,

21:4, 21:22,

23:5, 31:22,

41:2, 44:13,

51:6, 56:5,

68:19, 69:3,

69:14, 70:10,

70:11, 86:15,

86:18, 87:8,

89:20, 90:7,

90:9, 93:10,

94:11, 94:13,

94:15, 94:16,

95:8, 108:11,

108:20, 113:16,

138:14, 138:16,

148:13, 156:17,

168:22, 171:12,

171:13, 173:2

says

10:11, 19:17,

21:6, 23:1,

26:11, 27:20,

28:14, 28:15,

28:17, 28:20,

29:1, 30:21,

33:14, 37:4,
37:8, 37:21,
38:2, 39:14,
39:15, 40:12,
40:14, 40:18,
41:7, 44:11,
54:13, 54:18,
60:3, 71:20,
74:20, 75:14,
78:21, 78:22,
80:9, 80:11,
80:13, 80:17,
81:3, 81:14,
82:19, 83:3,
86:3, 87:22,
90:16, 95:3,
101:8, 103:16,
105:15, 106:5,
106:6, 110:19,
119:8, 133:7,
137:9, 137:12,
141:7, 141:10,
150:16, 151:2,
157:14, 158:3,
158:10, 159:11,
159:21, 160:14,
168:7, 168:9,
169:11
scale
15:15, 18:1
scenario
123:17, 143:6,
143:13, 143:14,
143:21, 144:21
scenarios
141:17, 142:3,
142:10, 142:22,
143:19
school
113:21, 114:6,
117:16, 118:18,
119:2, 121:10,
121:14
schools
121:15
scope
143:19, 145:2,
163:16, 165:8,

169:18
scratch
47:19
screen
39:16, 39:19,
40:16, 42:9,
106:12, 119:18,
119:19, 120:1
se
112:16
search
62:5, 62:9
seattle
3:13
second
9:22, 30:17,
31:3, 33:1,
44:21, 46:19,
47:21, 48:1,
48:9, 48:12,
49:2, 49:6,
49:8, 49:10,
49:14, 49:22,
51:1, 51:7,
51:8, 51:12,
55:14, 56:16,
62:13, 65:2,
68:4, 69:16,
70:12, 71:17,
72:5, 83:13,
111:20, 112:12,
126:14, 130:3,
130:6, 133:21,
134:9, 136:7,
136:10, 136:17,
136:20, 137:21,
138:19, 138:22,
139:17, 140:14,
141:9, 141:14,
141:18, 141:22,
144:7, 144:10,
145:22, 146:8,
154:8, 155:2,
155:4, 155:9,
164:5, 165:6,
168:11, 170:5,
170:15, 172:2,
173:20, 174:1,

176:14
secondary
113:21
section
9:18, 10:7,
10:15, 18:20,
56:17
security
107:2, 110:10,
110:12, 113:1
see
11:18, 11:19,
12:10, 12:11,
19:13, 19:14,
21:18, 24:4,
24:5, 24:10,
24:18, 24:19,
28:2, 28:3,
30:3, 31:5,
31:14, 31:15,
33:8, 33:9,
35:6, 41:16,
42:11, 42:12,
43:22, 54:14,
55:2, 55:3,
61:19, 68:3,
72:20, 72:21,
73:18, 73:19,
74:13, 74:14,
75:4, 75:5,
75:18, 75:19,
77:16, 80:13,
96:17, 97:8,
101:4, 107:3,
107:4, 107:19,
107:21, 108:5,
108:6, 110:18,
117:4, 117:5,
119:13, 122:21,
122:22, 123:5,
123:6, 126:13,
130:10, 135:9,
136:4, 137:8,
142:14, 153:21,
153:22, 154:6,
154:7, 157:19,
157:20, 158:22,
160:21

seeing
32:20, 97:12
seems
9:10, 150:8
seen
32:18, 126:6
select
68:10, 102:9,
120:3
selected
88:9, 101:22,
102:16, 102:19,
106:7, 115:14
selects
79:12, 99:12,
101:20, 102:7
self-contained
154:4
send
45:15, 46:18,
49:8, 49:20,
50:18, 55:7,
84:10, 87:13,
87:18
sending
45:4, 48:17,
48:22, 49:2,
143:17
sends
44:20, 46:9,
47:14, 47:20,
48:13, 49:5,
50:15, 54:8,
55:13, 57:21,
67:19, 95:3,
95:4
sense
17:21, 50:19,
50:20, 50:21,
110:16, 129:12,
132:11, 138:12,
146:18
sent
67:2, 79:15,
80:10, 83:15,
174:6
sentence
14:13, 20:1,

24:13, 27:19,
28:20, 33:2,
33:14, 35:12,
65:20, 71:13,
71:20, 72:2,
72:4, 72:7,
79:9, 79:21,
81:2, 82:19,
83:3, 83:20,
89:9, 89:19,
89:20, 91:15,
122:19, 123:1,
159:20, 160:4,
160:8, 160:10,
160:11, 160:13,
160:22
sequence
154:3
serves
145:18
service
60:7
session
5:7
sessions
5:12
set
19:15, 39:22,
60:5, 60:10,
61:14, 61:16,
61:22, 81:8,
81:19, 84:19,
85:3, 88:21,
94:20, 94:21,
102:13, 106:8,
108:4, 180:6,
181:8
sets
58:9, 61:8,
65:22, 67:12,
67:15, 70:17,
71:6, 82:9,
84:17, 88:19,
89:5, 94:18
setting
74:2, 115:9
setup
157:16, 158:5,

159:14, 160:6
seventeen
9:22
seventy-six
157:10, 160:12
several
33:4
sheet
179:7
short
157:8
short-range
140:4, 140:7
short-term
113:8
should
8:7, 16:8,
34:19, 61:11,
66:14, 66:20,
73:8, 78:9,
97:5, 101:13,
101:14, 102:10,
103:16, 104:7,
114:3, 130:4,
136:7, 136:8,
152:9, 171:6,
171:19
shouldn't
16:12, 16:14,
16:15, 46:16,
101:12, 173:3
show
12:8, 14:10,
14:15, 37:17,
167:2
showing
34:14, 102:9
shown
97:20, 99:7
shows
20:14, 124:5
side
16:19, 41:16,
96:14, 106:12
sign
64:9
signature
9:14, 9:16,

179:10
signature-plkal
181:13
signed
179:7
similar
31:20, 41:8,
53:20, 154:11,
155:14
similarities
164:22
similarly
51:14, 124:6,
160:20
simple
44:15
simply
134:13, 148:5
since
66:7, 95:5,
167:19
sir
7:22, 8:1,
8:15, 8:22,
9:21, 10:20,
14:1, 14:12,
23:22, 32:15,
44:5, 57:1,
64:3, 72:15,
101:7, 121:11,
122:10, 122:15,
128:21, 163:17,
167:11
sit
142:20, 175:13
sitting
18:2, 29:19,
175:16
situation
25:1, 25:3,
117:2, 118:3,
118:9, 118:17,
132:21, 138:19,
138:22, 147:14,
169:21
situations
108:15, 113:22,
118:10

six
128:21, 128:22
sixth
33:3
skill
15:11, 23:4,
26:18, 118:22,
119:12, 120:10,
121:1, 142:6,
143:22, 144:8,
146:3, 156:15,
171:4, 171:14,
172:7, 172:14
skimmed
39:13
sleep
171:1
small
96:1
smaller
42:5
smartphone
36:19, 36:21,
37:7, 37:9,
38:3, 44:20,
45:3, 45:14,
46:9, 48:14,
50:14
smartphones
35:10, 36:4,
36:16, 38:14,
38:17
smiley
96:18, 97:10,
98:7, 98:13,
99:20
smiling
120:8
software
27:21, 28:9,
28:12, 28:15,
28:18, 29:3,
29:8, 29:13,
29:16, 157:3
solicited
141:13, 143:10
some
10:13, 10:17,

29:17, 33:17,
39:6, 43:1,
43:2, 46:10,
46:20, 47:15,
48:1, 49:21,
52:20, 53:11,
55:9, 55:13,
57:22, 59:7,
66:20, 68:9,
81:8, 82:15,
88:20, 89:22,
96:1, 102:8,
104:8, 108:1,
108:14, 116:8,
116:11, 116:12,
116:13, 116:14,
124:15, 152:4,
152:7, 152:10,
156:10, 162:13,
164:2, 164:5,
164:6, 164:8,
172:8, 177:10
somebody
15:11, 15:22,
79:12, 80:3,
107:9, 117:6,
120:5, 128:17,
130:15, 145:16,
145:20
someone
26:15, 118:7
someone's
129:5
something
15:8, 15:16,
16:21, 26:21,
29:9, 29:10,
32:7, 33:20,
43:21, 44:13,
45:17, 53:18,
61:8, 61:13,
66:17, 70:1,
75:8, 76:1,
76:11, 76:13,
85:8, 100:19,
101:14, 102:11,
104:6, 105:1,
109:3, 115:7,
117:7, 119:21,
120:6, 125:13,
128:16, 131:18,
133:19, 138:14,
158:14, 172:10,
174:12
sometimes
111:8, 123:17
somewhere
111:7
sorry
10:1, 12:13,
25:13, 25:22,
28:5, 33:2,
33:12, 37:19,
40:4, 41:12,
44:1, 44:4,
52:5, 54:14,
55:5, 56:10,
61:21, 65:9,
67:14, 70:6,
81:12, 82:14,
86:8, 87:3,
87:4, 90:21,
92:3, 92:10,
92:14, 93:5,
106:21, 107:16,
115:19, 125:2,
126:17, 128:20,
129:16, 132:4,
137:4, 140:18,
145:8, 145:13,
150:22, 153:10,
155:1, 155:18,
157:17, 160:12,
161:3
sort
41:15, 96:1,
99:2, 114:11
sounds
34:18, 75:11
speaking
100:16
specialist
4:4, 6:2, 7:9,
13:4, 13:7,
63:18, 63:21,
122:1, 122:5,
161:17, 161:21,
177:20
specific
14:16, 17:2,
23:13, 25:3,
26:9, 26:17,
28:15, 28:17,
29:3, 32:4,
34:16, 38:21,
41:2, 43:19,
45:19, 46:12,
46:14, 48:16,
54:12, 55:10,
56:9, 57:17,
62:5, 62:16,
70:2, 100:12,
115:1, 118:3,
118:9, 121:6,
123:18, 123:19,
124:7, 125:7,
128:13, 132:21,
133:1, 134:16,
137:19, 137:20,
139:10, 139:22,
141:3, 146:5,
147:6, 148:12,
150:17, 157:3,
165:10, 170:3,
170:8, 170:9,
170:19, 171:2,
171:5, 172:8,
172:10, 174:6
specifically
24:13, 39:17,
66:15, 67:11
specification
24:17, 24:21,
25:2, 25:6,
25:8, 25:11,
25:14, 26:13,
28:6, 45:20,
138:6, 140:3,
142:16, 143:20,
144:2, 144:10,
145:18, 146:4,
147:8, 154:18,
170:2, 170:10,
170:22, 171:3,
171:11, 171:17,
173:10
specifies
26:5
speculation
61:12
spend
175:17
spoken
11:4
square
3:5
ssid
140:11
stand
63:18, 66:6,
122:1, 161:17,
165:13, 165:15,
165:19, 165:22,
169:20
standard
6:9, 15:2,
26:4, 41:5,
125:14
standards
9:20, 10:8,
10:14, 33:5
standby
62:19, 63:8,
73:15, 73:20,
102:18
stanford
3:17, 5:4, 7:3,
7:5, 11:1,
12:13, 13:2,
13:3, 34:10,
34:18, 48:4,
50:2, 51:3,
52:3, 53:2,
53:16, 55:17,
58:4, 61:2,
65:12, 67:6,
68:22, 69:12,
69:19, 69:21,
76:17, 79:20,
83:19, 85:22,
86:11, 88:15,
90:13, 91:6,

Transcript of Radostin Pachamanov, Ph.D.
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210

94:5, 100:11,
102:4, 103:7,
104:4, 106:4,
110:13, 114:16,
116:1, 117:21,
119:5, 120:17,
121:12, 130:22,
132:15, 136:3,
139:7, 142:5,
143:3, 145:5,
145:14, 147:17,
149:12, 150:14,
153:2, 161:15,
162:8, 162:10,
166:2, 167:3,
168:3, 169:19,
172:6, 173:16,
174:3, 175:6,
175:15, 176:3,
177:7
stanford's
11:10
star
96:18, 97:10,
98:19, 98:21,
99:2, 99:17,
102:22, 103:3,
103:9, 103:21
start
19:22, 47:19,
114:7, 117:18,
120:12, 127:5,
137:14, 142:18,
146:1, 163:2
starting
36:11, 139:15
starts
19:7, 25:9,
27:18, 30:3,
77:12, 127:3,
137:13, 143:10,
143:14
state
6:16, 12:7
stated
12:1, 22:14,
23:12, 34:1,
66:15, 123:10,

147:22, 165:4
statement
14:8, 18:17,
18:18, 31:7,
33:10, 66:4,
66:6, 90:7,
103:9, 129:19
statements
168:18
states
1:1, 6:6, 32:3,
71:6, 73:13,
89:10, 89:17,
90:14, 126:22
station
112:9
stay
38:20
stays
104:9
step
119:15, 131:20,
134:7
steps
144:6
still
28:10, 96:13,
108:19, 109:3,
109:4, 112:20,
113:12, 113:15,
169:5
stop
8:9
stored
130:20, 151:3
stores
152:2
straight
39:22, 174:22
straightforward
16:13, 16:14
strange
173:1
streaming
24:14
street
3:19
strict
120:4

strong
17:3, 18:5
student
75:7, 97:3,
97:14, 99:13,
102:14, 114:6,
114:12, 114:14,
114:17, 115:12,
115:13, 115:17,
115:19, 115:20,
116:6, 117:7,
120:12, 151:9,
151:11, 152:17,
152:20
student's
68:10, 101:21
students
113:19, 114:1,
114:2, 117:17,
118:19, 118:20
subject
122:11
suitable
14:14
suite
3:6, 3:12, 6:12
superimposed
154:5
supply
39:5
supplying
37:1
support
16:8, 17:3,
66:4
supports
120:22
supposed
44:17, 160:15
sure
6:17, 12:14,
12:17, 31:4,
34:12, 35:22,
40:10, 56:21,
57:19, 62:14,
65:3, 67:22,
68:6, 71:1,
72:13, 73:10,

78:6, 79:22,
81:13, 100:7,
107:17, 111:4,
121:20, 127:14,
143:6, 150:2,
154:19
surprised
91:21
surrounded
164:16
switch
75:10, 76:2,
76:14, 77:21,
93:9, 95:6,
104:16, 105:2,
106:10, 106:11
switched
73:16
switching
72:18, 73:13,
74:11, 74:17,
74:22, 75:1,
75:13, 75:14,
75:16, 76:7,
76:8, 76:21,
77:14, 78:18,
79:1, 79:5,
80:1, 80:6,
80:21, 81:10,
81:21, 82:22,
83:8, 86:5,
88:4, 88:7,
89:13, 90:22,
105:19
sworn
7:12, 7:15,
180:7
system
13:13, 25:1,
25:4, 31:20,
49:1, 108:19,
111:7, 111:9,
111:11, 111:13,
112:16, 112:17,
112:20, 113:9,
114:5, 114:9,
114:13, 114:17,
114:19, 114:21,

115:1, 115:9,
117:16, 118:1,
118:8, 118:13,
119:4, 119:11,
119:20, 120:11,
120:21, 121:3,
121:10, 121:13,
123:7, 126:8,
127:12, 128:13,
129:7, 129:17,
130:19, 131:14,
132:11, 132:13,
132:14, 134:10,
136:8, 136:11,
136:18, 141:5,
142:19, 144:5,
146:9, 146:15,
151:12, 152:11,
152:19, 154:2,
154:9, 154:11,
154:13, 155:8,
155:14, 159:1,
170:7, 171:7
systems
154:4

T

table
130:11, 130:12,
151:1, 151:14,
151:21, 153:4,
153:6
tablet
36:16, 38:3
take
44:15, 63:14,
64:20, 65:3,
121:18, 149:17
taken
13:6, 63:20,
107:8, 113:9,
122:4, 161:20,
180:8
talk
8:8, 22:16,
22:21, 38:13,
38:16, 52:16,
67:9, 67:17,
84:22, 85:1,
122:10, 174:5
talked
46:17, 52:13,
52:15, 66:7,
82:7, 105:13,
117:9, 144:17,
156:4
talking
9:12, 10:1,
18:7, 23:11,
23:18, 27:16,
39:4, 39:22,
42:3, 44:19,
47:1, 50:21,
52:5, 65:16,
67:22, 70:1,
75:6, 75:20,
77:4, 77:19,
78:11, 83:5,
83:9, 84:1,
86:7, 87:2,
88:7, 88:8,
99:10, 106:1,
109:7, 109:21,
113:2, 113:20,
117:11, 119:16,
122:12, 138:1,
138:2, 151:4,
157:7, 161:3
talks
25:10, 28:8,
29:8, 39:17,
48:9, 48:16,
50:17, 52:8,
52:19, 57:8,
60:1, 62:18,
67:7, 76:6,
78:15, 83:11,
108:11, 109:16,
113:10, 124:7,
128:13, 144:3,
158:7, 158:21
taught
120:11
tdls
157:16, 157:22,
159:22, 160:1,
160:19, 160:22
teach
61:4
teacher
68:10, 75:21,
77:6, 78:17,
80:4, 99:11,
101:19, 101:22,
113:18, 115:14,
115:20, 116:14,
117:20
teacher's
114:7
teaches
36:20, 58:8,
67:14, 104:7,
118:4, 123:15,
125:5, 142:16
teaching
122:19
teachings
18:6, 146:4,
156:12
technical
18:19, 19:2,
26:3
technician
4:3
technological
24:8
technologies
156:3, 156:9,
156:16, 159:5
technology
28:15, 127:1,
155:10, 156:11,
156:14, 159:22,
160:16, 160:18
television
39:9, 39:16,
39:19, 40:16,
40:21, 41:9,
42:9, 42:15,
42:17, 43:4,
43:15, 43:20,
44:2, 44:8,
44:11, 44:22,
45:5, 52:2,
52:10, 52:13,
54:11, 76:12
televisions
52:9
tell
15:18, 56:14,
117:8, 120:8,
128:3, 166:8,
166:14, 169:15,
173:9
telling
171:9
tells
93:14, 93:19,
95:13
temporary
107:1, 107:5,
107:7, 108:8,
110:9, 110:12,
112:22, 114:11
term
21:4, 21:6,
21:20, 23:3,
38:21, 63:1,
150:17
terminal's
71:17, 72:5,
112:12, 141:9,
141:18
terminals
36:16, 158:15
terminate
168:11, 176:14
terminated
170:20
terminates
172:2
terminating
144:7
terminology
54:1, 159:18
terms
154:12
testified
7:15
testimony
69:1, 69:22,
94:6, 162:13,

164:3, 166:11,
179:4, 179:6,
180:9
text
64:9
th
181:9
thank
7:3, 7:8, 7:22,
11:12, 13:3,
13:9, 23:16,
30:14, 64:12,
111:20, 148:19,
162:6, 162:8,
164:1, 177:16,
177:18
themselves
6:16
therefore
14:15, 18:4,
22:1, 22:3,
23:4, 71:14,
93:2, 95:1,
167:7, 174:13
thing
22:5, 22:10,
26:17, 34:11,
38:9, 43:19,
48:16, 55:19,
56:9, 62:16,
68:1, 77:19,
101:9, 111:21,
126:10, 126:11,
133:22, 137:19,
172:12, 174:6
things
8:6, 29:5,
41:10, 43:9,
44:14, 47:17,
48:15, 49:19,
53:5, 54:8,
62:10, 63:8,
76:13, 81:10,
82:17, 92:15,
118:11, 121:4,
124:22, 128:14,
131:15, 145:15,
145:17, 158:12,

168:4, 168:6,
170:3, 171:1,
171:5
think
8:18, 10:4,
14:22, 16:20,
18:14, 20:20,
21:10, 21:13,
21:17, 22:18,
23:2, 23:15,
29:12, 30:2,
36:5, 36:7,
36:8, 36:11,
37:17, 40:9,
43:22, 45:16,
50:6, 50:7,
54:6, 66:12,
73:9, 82:12,
87:3, 87:5,
87:8, 88:11,
88:12, 91:9,
91:15, 93:22,
96:4, 101:2,
101:4, 105:10,
106:13, 109:7,
109:12, 112:21,
114:5, 116:2,
121:2, 123:10,
124:2, 128:3,
136:2, 136:9,
138:1, 144:20,
145:7, 147:22,
148:1, 148:10,
148:18, 149:8,
149:15, 156:1,
156:4, 156:16,
156:21, 156:22,
157:5, 158:13,
159:6, 159:18,
161:10, 166:8,
167:12, 172:14,
172:21, 174:14,
174:18, 174:19,
174:20, 175:3,
175:11, 175:18,
176:2, 176:22
third
33:2, 47:3,

47:14, 47:22,
49:17, 71:13,
123:1, 126:16,
126:21, 126:22,
154:8, 164:6,
165:6
thought
86:12, 137:4,
149:7, 153:10,
175:22
three
96:17, 96:20,
96:21, 119:9,
157:21
through
16:1, 31:10,
39:13, 59:2,
59:8, 60:21,
66:19, 67:4,
67:18, 93:20,
95:17, 101:5,
111:9, 115:7,
126:8, 157:1,
158:8, 159:5,
165:3
throughout
124:9
tied
112:10
time
6:8, 13:5,
13:8, 13:20,
63:14, 63:19,
63:22, 65:3,
106:14, 107:20,
108:2, 108:17,
109:3, 109:4,
109:6, 109:8,
109:13, 109:14,
109:16, 109:18,
110:1, 110:2,
114:19, 122:3,
122:6, 147:11,
161:19, 161:22,
162:2, 175:17,
177:3, 177:4,
177:17, 177:22
times
123:16

title
13:13
today
6:10, 6:22,
7:10, 7:19, 8:4,
32:19, 32:21,
124:9, 142:21,
162:14, 162:16,
164:3, 165:20,
165:21, 166:6,
177:17
today's
5:7, 6:8, 11:2,
162:4
together
120:3
told
78:3, 90:8,
94:1, 112:14,
166:16, 166:17
top
36:3, 45:16,
46:2, 59:12,
62:2, 62:7,
63:9, 85:9,
99:18, 109:20
topic
65:15
total
172:18
touching
127:9
towards
162:16
trademark
1:1, 6:6
traffic
66:20, 67:17
transaction
138:18
transcript
5:8, 64:19,
65:10
transcription
179:5
transfers
130:4
translation
29:9

transmission 24:15, 73:15, 74:4, 74:5, 92:12, 102:20, 103:6	triggered 74:18	173:18	understanding 9:19, 9:22, 10:7, 10:14, 11:5, 12:2, 12:4, 15:13, 18:8, 18:11, 18:13, 18:21, 18:22, 19:16, 31:16, 42:13, 58:20, 61:21, 67:19, 68:18, 73:21, 74:15, 74:19, 76:4, 79:11, 79:17, 89:16, 94:13, 96:22, 104:21, 109:6, 146:2, 146:10, 146:14, 147:13, 151:8, 159:3
transmit 54:21, 57:11, 93:4, 103:17, 103:18, 104:2, 104:22, 115:4, 115:12, 115:18, 115:19, 147:1	triggers 74:11, 130:8, 136:16	type 45:14, 46:4, 123:19	
transmits 58:10, 66:1, 80:13, 134:15, 140:10, 141:12, 141:15, 142:15, 143:7, 148:7	trivial 15:7	types 35:16, 63:5	
transmitted 38:19, 79:6, 80:7, 80:12	true 124:12, 149:7, 149:8, 179:4, 180:9	typical 113:21	
transmitting 62:22, 70:18, 73:22, 85:17, 85:19, 103:14, 114:7, 116:15, 117:18, 120:12, 142:17, 143:11, 160:16	trust 43:18, 122:20, 133:11, 135:6, 149:3	typo 78:7	
trial 1:2, 15:3	try 8:8, 48:8, 92:3, 128:19, 143:4, 145:9, 146:20, 148:2	U	
triangle 99:7, 99:12, 99:13, 99:17, 101:20, 101:22, 102:10, 102:15, 102:16, 102:17	trying 38:20, 48:19, 54:1, 73:9, 115:6, 119:10, 139:8, 152:10, 152:18, 159:8, 173:5	uh-huh 11:15	
trick 73:10	tunneled 157:16, 158:5, 159:13, 160:5	unable 168:13, 168:17, 168:21, 169:14, 169:17, 171:22, 173:8, 174:12, 176:16	
tried 18:3, 22:19, 121:9, 146:13, 148:2	turn 9:11, 9:18, 11:13, 19:5, 23:17, 35:3, 41:11, 41:12, 54:14, 56:5, 72:8, 72:9, 122:15, 161:5	unclear 29:10	understandings 10:17, 10:20
tries 130:15, 169:2	turns 102:19	unconcerned 106:22, 110:8, 112:22, 113:6, 113:17	understands 93:1
trigger 77:15, 77:20, 78:18	tv 44:15, 46:10	under 18:17, 32:4	understood 8:14, 23:3, 57:7, 138:14, 145:3
	twenty-two 161:6	underneath 32:22	unit 41:21, 60:2, 60:3, 60:6, 60:8, 60:11, 67:12, 67:14, 150:4, 150:11, 150:18, 150:22, 151:11, 151:14, 151:17, 152:2, 153:1
	two 46:17, 136:2, 141:11, 158:14, 166:18, 168:18,	understand 8:16, 8:19, 11:21, 12:7, 14:9, 16:22, 25:15, 26:16, 26:19, 30:7, 33:10, 42:22, 70:7, 70:9, 75:21, 105:10, 138:11, 138:16, 139:4, 142:7, 144:1, 144:10, 146:3, 146:6, 150:5, 150:7, 151:20, 166:11, 169:9, 171:5, 172:15, 173:1, 173:5	united 1:1, 6:6
			universal 33:5
			unless 109:1
			unnecessarily 166:10
			unnecessary 22:4, 169:1,

Transcript of Radostin Pachamanov, Ph.D.
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214

174:13, 174:15,
175:21
until
115:18, 115:20
updated
33:17
upload
12:20
uploaded
12:15
upnp
33:6, 33:11,
34:4
upper
98:19, 103:3,
103:9, 103:22
use
25:5, 28:10,
32:2, 47:18,
65:8, 85:12,
104:5, 111:21,
112:5, 112:13,
112:15, 112:17,
112:20, 116:9,
116:12, 116:13,
139:20, 140:9,
149:13, 158:4,
159:13, 159:16,
159:21
user
75:2, 75:6,
75:16, 76:8,
76:11, 77:13,
77:20, 78:16,
87:9, 88:8,
101:18, 102:15,
107:22, 108:2,
111:6, 111:10,
111:12, 130:2,
134:20, 153:4,
153:6
user's
25:18
users
113:2, 123:4
uses
29:17, 85:13,
91:22, 116:10

using
24:16, 60:19,
74:22, 75:2,
75:7, 75:13,
75:17, 76:7,
76:9, 76:20,
102:1, 127:3,
127:5, 127:7,
160:18
usually
102:21
v
valid
12:5, 16:6
validity
11:17, 11:22,
14:5, 14:15,
18:8, 18:10,
18:12, 18:15,
19:1
verifies
170:4
version
12:17, 12:20
versus
6:5, 109:8,
123:4
via
54:20, 57:10,
112:8, 134:16,
140:7, 158:15
video
4:4, 6:2, 6:9,
6:13, 7:9, 13:4,
13:5, 13:7,
13:8, 24:14,
26:6, 37:1,
37:2, 37:5,
37:8, 38:19,
39:5, 40:20,
43:1, 43:12,
43:16, 44:20,
45:4, 45:22,
46:4, 46:9,
46:13, 46:19,
46:20, 47:6,
47:16, 47:21,

47:22, 48:2,
48:13, 48:17,
48:22, 49:3,
49:5, 49:8,
49:13, 49:22,
50:15, 50:18,
51:20, 52:22,
53:11, 55:8,
55:14, 57:22,
63:18, 63:19,
63:21, 63:22,
68:10, 73:22,
74:5, 85:17,
85:19, 92:12,
95:22, 96:9,
99:12, 99:13,
102:18, 104:2,
114:7, 115:20,
122:1, 122:2,
122:5, 122:6,
137:14, 161:17,
161:18, 161:21,
161:22, 177:20
videographer
6:10
videos
96:17
videotaped
1:13, 2:1, 6:3,
177:21
view
17:13, 60:17,
110:14, 136:14
virginia
2:7, 3:7,
180:3, 181:16
virtual
27:22, 28:9
virtually
1:15, 2:2,
180:9, 180:17
vnc
27:22, 29:13
voice-identify
6:15
w
want
12:14, 12:16,

22:8, 22:21,
34:12, 34:17,
34:21, 39:22,
45:19, 56:5,
56:15, 59:16,
61:1, 61:3,
62:4, 62:5,
65:14, 67:21,
76:18, 90:15,
104:22, 117:3,
117:17, 118:19,
126:12, 128:4,
128:5, 128:7,
132:4, 147:1,
150:16, 152:5,
154:18, 154:22
wanted
40:10, 57:3,
73:10, 117:19,
117:20, 177:5
wants
115:13, 120:13
warn
77:2
washington
3:13, 3:20
way
20:14, 26:5,
44:16, 48:1,
48:8, 49:21,
52:21, 53:11,
55:13, 57:22,
59:7, 59:9,
59:18, 61:6,
66:21, 78:22,
81:8, 82:15,
88:11, 88:20,
94:19, 100:6,
100:7, 100:21,
101:17, 113:5,
115:1, 118:1,
118:21, 119:4,
120:8, 121:7,
129:11, 136:4,
141:4, 142:14,
142:15, 149:10,
152:7, 156:18,
158:3, 159:17,

169:5, 171:7,
172:4, 181:5

ways

74:17, 119:9,
153:19

we'll

12:22, 65:7,
65:8, 161:12

we're

10:1, 23:8,
39:4, 48:6,
50:21, 52:21,
53:22, 54:4,
55:14, 67:22,
77:4, 77:19,
78:11, 83:9,
94:9, 95:11,
97:12, 106:1,
113:20, 122:2,
150:2, 153:11

we've

63:13, 68:19,
106:13, 121:17,
133:16

wednesday

1:16, 180:18

welcome

64:2, 122:8

went

72:12, 101:5,
152:5

weren't

95:11

whatever

30:7, 42:18,
81:11, 95:7

whenever

115:13, 117:18,
120:13

whereas

29:7

whereof

181:8

wherever

128:5

whether

20:6, 29:16,
34:3, 112:6,

127:19, 129:5,
131:12, 132:9,
134:19, 142:3,
142:21, 152:12,
152:20, 163:8,
163:12, 164:19

whichever

59:18

white

4:4, 6:10

whitehead

1:22, 2:5,
7:10, 180:2

whole

86:13, 94:11,
100:3, 111:1,
125:10, 129:2,
130:1, 130:8,
136:16, 138:18,
160:4, 169:20

wholly

106:22, 110:8,
112:22, 113:5,
113:17

wideband

158:22

wifi

24:16, 24:20,
25:2, 25:5,
25:7, 25:10,
25:13, 26:9,
26:10, 26:12,
26:16, 26:20,
27:17, 27:20,
28:6, 28:10,
28:19, 28:21,
29:2, 29:17,
30:4, 30:19,
30:21, 31:10,
31:11, 32:1,
127:6, 155:19,
156:7, 156:8,
156:20, 157:1,
157:7, 157:15,
157:21, 158:1,
158:5, 158:13,
159:7, 159:11,
159:13, 159:15,

159:19, 159:22,
160:1, 160:14,
160:18, 161:1

wikipedia

5:10, 32:11,
32:16, 32:19,
33:15, 64:17

wireless

157:15, 158:4,
158:11, 158:19,
159:12, 160:4,
160:5, 160:8

wise-guy

118:18

withdraw

95:14, 161:8

within

60:2, 143:19,
145:2, 164:4,
164:21, 166:18,
169:17

without

13:21, 26:2,
43:18, 141:13,
141:21, 143:7,
143:8, 143:9

witness

7:12, 63:15,
121:20, 162:6,
162:7, 177:18,
180:6, 180:10,
181:8

wonder

38:10

word

17:2

words

110:18, 138:18,
139:10, 146:5

work

44:17, 114:10

worked

121:14

working

11:6, 142:18

works

44:16, 105:11,
115:1

wouldn't

28:13, 59:6,
100:3, 114:10,
120:15, 120:18,
121:5, 124:14,
125:4, 130:12,
132:16, 138:22,
149:18, 156:10

wow

121:2

writing

177:11

writings

11:8

written

177:8

wrong

116:22, 162:4,
163:20, 164:15,
166:9, 166:21,
167:11, 173:2,
174:13, 174:15,
174:19, 174:20,
176:20, 177:1

wrote

176:1

y

yeah

10:3, 10:5,
17:1, 34:19,
36:10, 36:15,
38:2, 38:11,
39:1, 39:21,
56:6, 56:7,
59:5, 59:6,
63:4, 63:5,
70:8, 71:21,
73:9, 98:15,
101:8, 111:18,
126:13, 129:1,
137:3, 138:1,
151:6, 155:16,
159:20, 168:22

years

11:8

yep

82:12

yes-or-no
145:12, 173:15

yourself
44:3, 173:5

z

zone
108:2, 108:18,
109:4, 109:6,
109:8, 109:13,
109:14, 109:16,
109:18, 110:1,
110:2
zones
107:20

0

00
27:13
01307
1:7, 6:21, 7:8
01315
6:7, 6:21
01317
6:7
04
161:19
06
13:5, 63:19
08
13:8
088
12:8, 14:10,
24:9, 35:15,
35:18, 36:1,
37:4, 37:6,
37:11, 38:12,
39:1, 43:10,
43:13, 45:2,
45:10, 45:13,
47:2, 47:9,
48:6, 48:9,
48:15, 48:19,
49:4, 49:6,
49:12, 49:18,
51:2, 51:8,
51:13, 51:15,
52:5, 52:11,

52:19, 53:6,
54:7, 54:15,
55:5, 60:15,
68:21, 69:17,
70:13, 108:11,
110:15, 110:17,
110:22, 113:4,
129:13, 129:20,
133:12, 134:6,
135:7, 135:19,
135:20, 137:16,
139:16, 143:21,
144:3, 147:8,
155:18
09
161:22

1

1
122:6
10
1:17, 6:9,
13:5, 13:8,
180:18
100
15:16, 133:2,
133:14, 134:4,
139:14, 147:20,
148:22
1001
5:15, 35:18,
35:20, 54:15
1004
5:16, 27:2,
27:3, 37:20
102
164:16, 164:20,
165:2, 165:14
104
153:12, 153:15
1047
5:10, 64:17,
64:18, 64:22,
65:8
106
164:16, 164:20,
165:3, 165:14
11
63:19, 63:22

11,026,088
1:9
117
111:22, 112:4
11911
3:6
12
11:7, 122:3
124
56:22, 57:2
126
58:6, 65:16,
65:21, 70:15,
73:7, 86:19
127
71:12
13
11:8
1307
9:2, 9:9
15
10:11, 122:6
16
63:22
162
5:4
166
5:5
17
1:16, 6:8,
9:18, 10:2,
23:21, 41:12,
41:15, 42:5,
42:14, 42:21,
67:22, 68:2,
68:12, 69:6,
69:16, 73:1,
97:4, 97:8,
124:2, 161:3,
180:18
18
35:5, 154:15,
155:6, 155:12
181
1:21
19
11:13, 14:2
196
72:18

1999
3:19
1c
50:7, 57:8,
60:15
2
2
161:19, 161:22,
177:22, 178:2,
180:18
20
128:10
20006
3:20
2004
33:19
2005
34:4
2014
5:17, 9:4, 9:5,
9:17, 11:14,
13:12, 13:13,
13:17, 23:19,
29:22, 34:9,
35:1, 35:5,
56:14, 65:17,
106:17, 146:12,
163:1
2015
33:19
20190
3:7
202
3:21
2024
9:2
2025
1:7, 6:7, 6:21,
7:8, 9:9
2026
1:16, 6:8,
9:15, 180:18,
181:9
2027
181:12
20850
6:12

Transcript of Radostin Pachamanov, Ph.D.
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217

21 11:20, 122:3	82:7, 89:4	3124 3:21	57 35:4, 35:13
215 3:14	265 128:8, 128:11,	329 134:17	58 56:18
22 12:6, 14:8,	128:12, 149:11,	3300 3:14	59 58:7
95:15, 95:20,	149:17, 149:21,	35 5:15	6
95:22, 96:9,	150:3, 150:9,	4	63 138:2
97:13, 97:16,	151:9	400 6:12	638160 1:20
97:17, 97:20,	27 5:16, 138:2,	4000 3:8	64 5:10
98:1, 98:2,	181:9	407 110:4, 110:5,	656 3:14
98:6, 98:10,	273 107:12, 107:20,	110:11, 110:19,	66 15:16
98:16, 98:18,	149:11	111:5	6900 3:12
98:20, 99:3,	284 39:13, 40:1,	41 19:8, 19:10	6b 19:12, 19:17,
99:4, 99:6,	40:9	42 44:1	162:19, 163:2,
99:8, 99:9,	29 19:8, 23:20,	43 36:11	166:7, 166:10
99:15, 99:16,	24:2	437 126:18	7
101:5, 101:16,	294 101:3, 101:6	441 154:20	700 155:8
102:2, 103:3,	296 72:10, 72:14,	45 44:1	701 3:12, 83:17,
104:11, 104:13,	73:12	451 6:11	112:9
104:18, 161:4,	297 74:9, 74:20	46 56:19	703 3:8, 69:9,
161:5	298 74:21	464 128:19	73:1, 97:3,
240 40:4	299 75:12, 76:19,	483 37:16, 37:21	97:11
244 30:15, 30:17,	77:4, 77:18,	49 44:7	704 69:9, 73:1,
30:18, 31:6,	78:13	5	97:4, 97:11
31:18	3	52 44:1, 44:8	7044 3:13
248 39:10, 40:1,	30 35:5	54 23:17, 23:20,	710 31:8, 58:2,
40:4, 40:6,	300 3:6	5602 3:7	66:13, 69:7,
40:7, 40:12,	304 77:10, 77:12,		73:1, 75:8,
42:2, 42:3,	77:18, 78:12,		76:14, 78:20,
42:16, 43:4	78:15, 78:22,		79:13, 79:14,
25 177:22, 178:2,	86:3, 87:1,		81:6, 94:4,
180:18	87:7, 87:8,		97:3, 125:3,
251 154:20, 155:5,	88:11, 105:15,		
155:6	105:16		
256 154:20, 155:5	31 181:12		
263 3:21			
264 58:13, 59:14,			
60:1, 61:18,			
66:3, 66:15,			

129:17, 134:22

72

9:11, 9:12

720

69:7, 73:1,

97:3, 125:3

730

31:10, 40:13,

41:17, 42:4,

51:16, 55:16,

57:21, 58:3,

59:8, 59:9,

60:22, 66:2,

67:5, 68:16,

70:20, 74:7,

79:8, 79:16,

80:8, 80:14,

80:19, 81:16,

82:21, 86:4,

87:14, 89:11,

89:16, 90:19,

91:4, 94:3,

112:8

731

41:20, 42:14,

51:17, 68:11,

68:15, 68:16

732

41:21, 51:17

733

96:10, 104:14

734

96:14, 96:17,

115:21

74

158:21

740

53:14, 53:18,

55:12, 56:2,

57:15, 57:16,

57:20, 58:9,

58:16, 58:17,

58:21, 60:2,

60:13, 61:7,

65:21, 66:13,

67:15, 68:3,

68:9, 68:14,

75:17, 76:1,

76:14, 77:14,

78:16, 79:3,

79:12, 80:3,

80:13, 85:4,

87:10, 87:13,

94:18, 101:19,

102:1, 102:16,

124:20, 125:1,

129:2, 129:4,

129:8, 129:12,

129:14, 135:2,

150:6

743

60:8, 60:12

747

60:4, 60:6

75

15:17

750

150:4, 150:12,

151:1, 151:11,

152:11, 153:1

76

157:9, 157:14,

158:3, 158:18,

160:11

77

27:11, 27:13,

27:16, 27:20

773

3:8

78

30:11

8

86

19:15, 163:3,

166:18, 167:1,

167:10

87

19:5, 19:6,

19:22, 20:5,

21:18, 21:21,

21:22, 23:1,

23:12, 23:14,

166:18, 167:1,

167:6, 167:10

9

94

106:16, 106:22,

110:7, 111:19

97

122:16

98

139:15, 141:6,

147:19

98104

3:13

99

133:18, 134:3,

134:5, 134:13,

147:20, 149:14