1	UNITED STATES PATENT AND TRADEMARK OFFICE
2	
3	BEFORE THE PATENT TRIAL AND APPEAL BOARD
4	
5	HULU, LLC, Petitioner
6	V.
7	SITO MOBILE R&D IP, LLC and SITO MOBILE, LTD.,
8	Patent Owner.
9	
10	Case IPR2021-00265
11	U.S. Patent No. 9,591,360
12	Case IPR2021-00308
13	U.S. Patent No. 8,825,887
14	
15	
16	VIDEOTAPED VIDEOCONFERENCE DEPOSITION OF
17	MICHAEL ADAMS
18	Colorado Springs, Colorado
19	Wednesday, October 20, 2021
20	Volume 1
21	
22	Reported by:
	LESLIE JOHNSON
23	RPR, CCRR, CSR No. 11451
24	Job No.: 4833203
25	PAGES 1 - 168
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14	
15	
16	VIDEOTAPED VIDEOCONFERENCE DEPOSITION OF
17	MICHAEL ADAMS, Volume 1, taken on behalf of Petitioner, at
18	Colorado Springs, Colorado, beginning at 9:10 a.m. and
19	ending at 4:19 p.m., on Wednesday, October 20, 2021,
20	before LESLIE JOHNSON, Certified Shorthand Reporter
21	No. 11451.
22	
23	
24	
25	
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18	CRAIG CIHLAR, Videographer (Afternoon)
19	
20	
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23	
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25	
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12		Case IPR2021-00265
		U.S. Patent No. 9,591,360
13		
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14		Deposition of Michael Adams;
		Case IPR2021-00308
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	Pag	e 5
	Veritext Legal Solutions	

1 Colorado Springs, Colorado Wednesday, October 20, 2021; 9:10 a.m. 2 3 4 THE VIDEOGRAPHER: Good morning. We are 09:10:48 5 going on the record at 9:10 a.m. on October 20, б 2021. 7 Please note that the microphones may pick 8 up background noise, conversations and interference 9 if unmuted. Remember to unmute to speak. Audio and video recording will continue to take place unless 09:11:04 10 all parties agree to go off the record. 11 This is Media Unit 1 of the video-recorded 12 deposition of Michael Adams taken by counsel for 13 Petitioner in the matter of Hulu, LLC versus Sito 14 15 Mobile R&D, LLC, et al., filed in the United States 09:11:23 Patent and Trademark Office before the Patent Trial 16 17 and Appeal Board, Case No. IPR2021-00265 U.S. Patent No. 9,591,360. 18 19 This deposition is being conducted using 20 Veritext Virtual technology, and all participants 09:11:51 are attending remotely. My name is Cassia Leet from 21 22 Veritext Legal Solutions, and I am the videographer. 23 The court reporter is Leslie Johnson of Veritext 24 Legal Solutions. I am not related to any party in 25 this action nor am I financially interested in the 09:12:10 Page 6

1	outcome.	09:12:13
2	Would counsel please state your	
3	appearances and affiliations for the record.	
4	MR. BERG: This is Brad Berg from	
5	O'Melveny representing the petitioner in these	09:12:22
6	matters, Hulu, LLC.	
7	MR. SPRENGER: And this is Kevin Sprenger	
8	of Daignault & Iyer, LLP representing Sito.	
9	THE VIDEOGRAPHER: Thank you.	
10	Will the court reporter please swear in	09:12:37
11	the witness.	
12		
13	MICHAEL ADAMS,	
14	having been administered an oath, was examined and	
15	testified as follows:	09:12:53
16		
17	EXAMINATION	
18	BY MR. BERG:	
19	Q Great. Thank you.	
20	Mr. Adams, welcome back. Good to see you	09:12:58
21	again.	
22	A Thank you.	
23	Q So today I'm not going to go through	
24	the you know, all the ground rules and things	
25	like that, since we just spoke a couple days ago.	09:13:10
		Page 7

1	But I just want to make sure that we're still in	09:13:12
2	agreement in general as far as how the deposition	
3	proceeds.	
4	A Okay. Yes.	
5	Q Okay. Great.	09:13:26
б	Let's talk a little bit about your	
7	preparation for today's deposition.	
8	So, in addition to what you had done	
9	previously to prepare for your deposition before our	
10	deposition last Friday, what else did you do to	09:13:38
11	prepare for today's deposition?	
12	A I've had a couple of conference calls with	
13	counsel and also reviewed the various documents	
14	pertaining to the two IPRs that we're talking about	
15	today.	09:14:03
16	Q Did you review your the rough	
17	transcript of your deposition testimony from	
18	October 15th?	
19	A No. I have not seen that.	
20	Q Approximately how long would you say you	09:14:18
21	spent with counsel preparing for your deposition	
22	today?	
23	A I think about five hours in total.	
24	Q And, in addition to the documents you	
25	mentioned, can you remember any other documents that	09:14:36
		Page 8

1	you looked at?	09:14:39
2	A Yes. I remember looking at the expert	
3	witness declarations that I made and the patents	
4	themselves and the prior art patent cited by Hulu.	
5	Q All right. Let me see here. I'd like to	09:15:12
6	introduce a couple of exhibits.	
7	So you understand that today we're	
8	specifically dealing with two patents, the '360	
9	patent and the '887 patent; is that correct?	
10	A Yes. That's my understanding too.	09:15:26
11	Q And you understand that these patents have	
12	the same or share a specification with the	
13	patents that we looked at last time?	
14	A No, I don't believe they do. The	
15	specification is different.	09:15:43
16	(Exhibit 1 marked for identification.)	
17	BY MR. BERG:	
18	Q Okay. Well, we'll get into some of those	
19	differences at some point here then. Let me just go	
20	ahead and introduce this exhibit first.	09:15:56
21	Okay. So I just introduced an exhibit	
22	that we're marking as Exhibit 1. You can just let	
23	me know when you've got that.	
24	A Yes. I've got it.	
25	Q Okay. Let me just introduce this exhibit	09:16:27
		Page 9

1 as Exhibit 2 as well. And we'll just talk about 09:16:29 2 both these together. 3 (Exhibit 2 marked for identification.) 4 BY MR. BERG: 5 Just let me know when you have Exhibit 2, 09:16:44 Q 6 Mr. Adams. 7 Α I'm just still playing with this tool. 8 Q No problem. 9 To get a good view on the folder, I need А to double-click to open it. 09:17:24 10 Okay. Yes. I have both of those 11 12 documents open. Okay. So let's start with Exhibit 1. And 13 0 Exhibit 1 is Petitioner Hulu, LLC's notice of 14 15 deposition of Michael Adams for Case IPR 2021-00265 09:17:43 16 for U.S. Patent No. 9,591,360. 17 So first, Mr. Adams. Have you seen this document before? 18 19 I don't believe I have, no. А 20 Q Do you understand that you're appearing 09:18:10 today pursuant to this notice of deposition? 21 22 Α Yes. I do understand that. 23 0 You understand that you're here to testify 24 as to your opinions regarding Hulu's petition covering U.S. Patent No. 9,591,360? 09:18:26 25 Page 10

1	A Yes, I do.	09:18:31
2	Q And will you understand today if I refer	
3	to this patent as the '360 patent?	
4	A Yes.	
5	Q All right. You can set that one aside.	09:18:48
6	And go ahead and turn to Exhibit 2.	
7	So Exhibit 2, for the record, is	
8	Petitioner Hulu, LLC's notice of deposition of	
9	Michael Adams for Case IPR 2021-00308. And that's	
10	for U.S. Patent No. 8,825,887.	09:19:07
11	Have you seen this document before, sir?	
12	A I don't think so.	
13	Q Do you understand that you're appearing	
14	today to testify in response to this notice of	
15	deposition?	09:19:23
16	A Yes, I do.	
17	Q And you're prepared to give your opinions	
18	regarding, you know, Hulu's petition and in	
19	particular U.S. Patent No. 8,825,887?	
20	A Yes, I am.	09:19:36
21	Q And will you understand if I refer to this	
22	patent as the '887 patent?	
23	A Yes.	
24	Q So let's just go ahead and introduce a few	
25	additional exhibits as kind of some housekeeping	09:19:59
		Page 11

1 here. 09:20:08 (Exhibit 3 marked for identification.) 2 BY MR. BERG: 3 4 Q Okay. So I just introduced what I've 5 marked as Exhibit 3. Just let me know when you have 09:21:16 б that. 7 А Yes, I have that. 8 Okay. And what is Exhibit 3, Mr. Adams? 0 9 Exhibit 3 appears to be my declaration for А the -- in regards to the '887 patent. 09:21:35 10 And I'll just note that this exhibit, 11 0 12 although I've marked it as Exhibit 3 here, is the same as Exhibit 2012 in IPR 2021-00308, which, as 13 you mentioned, is regarding the '887 patent. 14 15 And, you know what, let me just introduce 09:22:03 16 another one here. 17 (Exhibit 4 marked for identification.) BY MR. BERG: 18 19 Okay. So I've just introduced Exhibit 4. Q 20 Just let me know when you're able to download that. 09:23:20 21 Yeah. I have that open now. А 22 0 Okay. And what is Exhibit 4, Mr. Adams? 23 Α This is my declaration relating to the 265 24 IPR, which is around the '360 patent. 25 Q Great. And I'll just note again for the 09:23:55 Page 12

1 record that this exhibit, as noted at the bottom, is 09:23:58 2 Sito's Exhibit 2012 for IPR 2021-00265 covering the '360 patent. 3 Turning back to Exhibit 3, which is the 4 '887 declaration. And I guess I should back up. 09:24:22 5 б Will you understand if I refer to Exhibit 3 as the 7 '887 declaration or maybe the '887 report? 8 А Yes, I will. 9 Okay. Great. Q So turning back to that one, does this 09:24:39 10 contain all of your opinions regarding the '887 11 12 patent? MR. SPRENGER: Objection to form. 13 THE WITNESS: I just wanted to go through 14 15 it, look down to the end. 09:25:08 BY MR. BERG: 16 17 Q Yeah. No problem. See, it's all here. I'm sure it is. 18 Α 19 Yes, it does reflect all of my opinions 20 formed up until the present time. Yes. 09:25:20 21 And, to the best of your knowledge, is it 0 22 accurate? 23 MR. SPRENGER: Objection to form. 24 THE WITNESS: Yes. | | | | 25 Page 13

1	BY MR. BERG:	09:25:37
2	Q And, if you flip down to Section 3, the	
3	"Materials Considered" section.	
4	Does this section appear to reflect all of	
5	the materials that you considered and relied on in	09:25:49
6	forming your opinions?	
7	A Yes. I believe it does. Although, of	
8	course, I also relied on my experience and time in	
9	the industry and general knowledge around the	
10	subject matter.	09:26:10
11	Q Great.	
12	And did you in drafting this	
13	declaration, did you rely on conversations with	
14	anyone?	
15	A I worked with counsel, but I didn't rely	09:26:30
16	on anybody else's conversation. I formed the	
17	opinions using my own knowledge and experience.	
18	Q Did you have any conversations about the	
19	'887 patent with anyone besides counsel?	
20	A No, I did not.	09:26:57
21	Q You didn't talk with any inventors of the	
22	'887 patent, for example?	
23	A No, I did not.	
24	Q Let's go to Exhibit 4 now.	
25	A Okay.	09:27:35
		Page 14

1	Q And you'll understand if I refer to this	09:27:36
2	as the '360 declaration or maybe the '360 report?	
3	A Yes.	
4	Q And does this contain all of your opinions	
5	regarding the '360 patent formed up until the	09:27:47
б	present time?	
7	A Yes, it does.	
8	Q And, to the best of your knowledge, is it	
9	accurate?	
10	A I believe so.	09:28:27
11	Q And did you well, let's go to Section 3	
12	here, which I believe is on page 4.	
13	A Yes.	
14	Q And does this reflect all of the material	
15	that you considered and relied on in forming your	09:28:48
16	opinions?	
17	A Yes, I believe it does, although of course	
18	I do rely also on my experience and knowledge of the	
19	subject matter.	
20	Q And did you talk with anyone else about	09:29:27
21	the '360 patent besides counsel?	
22	A No, I did not.	
23	Q Have you ever had any conversations with	
24	any of the inventors of the '360 patent?	
25	A No.	09:29:43
		Page 15

1	Q And you're aware that with I think	09:29:59
2	actually with both with respect to both the '360	
3	patent and the '887 patent, there is some dispute as	
4	to what priority date should apply; is that correct?	
5	A Yes. I do understand that.	09:30:14
б	Q And are you aware that the patent owner in	
7	this case, which is Sito Mobile R&D IP, LLC and Sito	
8	Mobile, Ltd., submitted some declarations from the	
9	inventors in connection with that priority	
10	challenge?	09:30:38
11	A Yes. I was made aware of that.	
12	Q And did you review those declarations?	
13	A No, I have not.	
14	Q Did you offer any opinions as to what	
15	should be included in those declarations?	09:30:53
16	A No. I did not.	
17	Q Okay. So a couple other exhibits that I	
18	want you to have readily available in case we need	
19	them.	
20	I'm going to go ahead and also mark the	09:31:20
21	two patents that we're going to be talking about	
22	today. Just give me one second to do that.	
23	(Exhibit 5 marked for identification.)	
24	BY MR. BERG:	
25	Q Okay. So I've introduced Exhibit 5. Just	09:32:30
		Page 16

1	let me know when you've had a chance to open that.	09:32:33
2	A Yes, I have it open.	
3	Q And what is Exhibit 5?	
4	A Exhibit 5 is a United States patent for	
5	system and method for routing media. And this is	09:32:47
6	the patent '887 that we've already talked about.	
7	Q And just before we move on to the next	
8	one, I'll just note for the record that Exhibit 5 is	
9	marked as Exhibit 1001 in the 887 IPR, which is IPR	
10	2021-00308.	09:33:59
11	Do you agree with that, Mr. Adams?	
12	A Yes. I believe that's correct.	
13	(Exhibit 6 marked for identification.)	
14	BY MR. BERG:	
15	Q Okay. I've gone ahead and introduced	09:34:17
16	Exhibit 6. Let me know when you have that	
17	downloaded.	
18	A Yes. I have that in front of me now.	
19	Q Okay. And what's Exhibit 6?	
20	A A United States Patent 9,591,360, "System	09:34:43
21	and Method for Routing Media."	
22	Q Have you seen this patent before?	
23	A Yes, I have.	
24	Q And I'll just note for the record that	
24 25	Q And I'll just note for the record that this patent is marked as Hulu Exhibit 1001 in the	09:35:09

1	'360 proceeding, which is IPR 2021-00265.	09:35:14
2	Does that sound correct to you, Mr. Adams?	
3	A Yes. I believe that's correct.	
4	Q Okay. So now, first thing I would like to	
5	do is earlier today, when I asked you whether or	09:35:49
6	not these patents shared a specification with the	
7	ones we looked at last week, you indicated that you	
8	didn't think that they did.	
9	Do you understand the specifications of	
10	the '360 and the '887 patent to be identical?	09:36:10
11	A No, they're not.	
12	Q Okay. And so let's pull both of those two	
13	patents up kind of together. I would just like you	
14	to point out to me which areas of the patents are	
15	different, if you wouldn't mind.	09:36:36
16	A I'll do my best.	
17	Q And I'll just point out that like, in my	
18	opinion, at least vast swaths of these patents are	
19	the same. So I don't think this should be an	
20	exercise in doing a manual word comparison. But I	09:36:55
21	just want to get a general sense of where the	
22	differences are and then talk about those	
23	differences with you.	
24	A Okay. I believe that the '360 patent has	
25	sections that don't appear in the '887 patent. I	09:37:18
		Page 18

1	believe starting in the summary of the invention.	09:37:33
2	Q So let's go to the summary of the	
3	invention.	
4	Okay. So I see that the summary of the	
5	invention in the '887 patent is, you know, just one	09:37:53
6	paragraph. It looks like about from lines 23 to 38	
7	of column 2. And the '360 patent has a summary of	
8	the invention that goes from column 2, line 31 to	
9	column 3, lines line 52.	
10	Does that seem accurate to you?	09:38:19
11	A Yes. That's correct.	
12	Q Okay. So maybe for the record, can you	
13	just summarize for me what you view as the primary	
14	differences between these two summaries of the	
15	invention.	09:38:40
16	MR. SPRENGER: Objection to form.	
17	THE WITNESS: Well, it's difficult to	
18	summarize. As you just pointed out, there's quite a	
19	large amount of additional information in the '360	
20	section which describes the summary of the	09:38:57
21	invention. It's, you know, quite a few paragraphs,	
22	so difficult to summarize.	
23	BY MR. BERG:	
24	Q Well, let me ask it this way. Are there	
25	any features that you can point me to in the summary	09:39:19
		Page 19

1 of the invention for the '360 that aren't described 09:39:22 2 in the summary of the invention for the '887? Yes, there are. 3 Α 4 Can you identify one of those for me? Q Okay. So I believe the first one -- as 09:39:35 5 Α you pointed out, in the '887 there's basically just 6 7 one paragraph with about 20 lines, roughly, which 8 starts off "Enhanced media streaming services 9 generally compound the difficulties because" dot, dot, dot. 09:40:03 10 11 In the '360, we appear to have the same paragraph. I haven't checked it exactly, but it 12 looks like the same paragraph. And then in the '360 13 at column 2, line 47, we now have an additional 14 15 section, which starts off "In one aspect, the video 09:40:25 16 streaming system has one or more servers" and 17 continues on. And then it appears that all of the text 18 19 there is additional and not in the '887 20 specification. And then there is another paragraph 09:40:46 again of about 20 lines or so starting at column 3, 21 22 line 6, and another paragraph starting at column 3, 23 line 37. 24 So all of the material described in those 25 additional sections I've just noted is not -- does 09:41:09 Page 20

1 not appear in the '887 patent, to my knowledge. 09:41:15 2 Okay. So, setting aside the "Summary of 0 the Invention" section and going to the "Detailed 3 4 Description" section, are you aware of any 5 differences in the detailed description between the 09:41:47 '360 patent and the '887 patent? 6 7 MR. SPRENGER: Objection to form. 8 THE WITNESS: I have not done a complete 9 side-by-side comparison of the detailed description. But I do believe they differ in some details. 09:42:11 10 BY MR. BERG: 11 12 Can you point out one of those details for Q 13 me? It's quite difficult. I think the 14 А 15 differences are pertaining to the discussion around 09:42:31 16 settlement and revenue sharing. I have actually 17 looked at this in preparation for this deposition, and I seem to have found -- there seem to be some 18 19 differences, but I'm unable to point them out 20 exactly. But I'm certainly not sure that they're 09:43:01 the same or identical. 21 22 In your review of these patents -- I mean, 0 23 so you mentioned that you identified a few 24 differences. You identified, as we talked about, a 25 significant difference in the "Summary of the 09:43:21 Page 21

1 Invention" section. 09:43:23 2 Did you identify in your review whether or not the differences in the detailed description 3 4 correspond to the additional paragraphs in the 5 "Summary of the Invention" section, or do they seem 09:43:34 б to be something different? 7 MR. SPRENGER: Objection to form. 8 THE WITNESS: It's difficult to say, but I 9 believe they are different from the additional sections, do not relate to the additional sections 09:43:53 10 in the '360 summary of the invention. 11 BY MR. BERG: 12 Okay. So what I'd like to do is direct 13 Q your attention to the cover of the '887 patent. 14 15 Okay. 09:45:15 Α 16 Q And do you see that the '887 patent -- do 17 you see the section called "Related U.S. Application Data"? 18 19 MR. SPRENGER: Objection to form. THE WITNESS: Yes, I do. 20 09:45:27 BY MR. BERG: 21 22 0 And do you see the first line there says 23 "Continuation of Application No. 11/680,407, filed 24 February 28, 2007"? 25 Α Yes. 09:45:47 Page 22

1	Q Do you have a sense or understanding,	09:45:58
2	Mr. Adams, of what it means for a patent to be a	
3	continuation of another application?	
4	MR. SPRENGER: Objection to form.	
5	THE WITNESS: I believe I do. I'm not an	09:46:09
6	expert on some of these legal terms, but I think I	
7	understand what that means, yes.	
8	BY MR. BERG:	
9	Q What's your understanding of what that	
10	means?	09:46:17
11	A I believe it's when you have a patent	
12	application, and then that patent application is	
13	continued as a with another application. And so,	
14	essentially, all of the first application gets kind	
15	of rolled into incorporated into the	09:46:42
16	continuation, if you like.	
17	Q And do you understand whether or not you	
18	can add new matter to a continuation application?	
19	A I believe you can.	
20	Q Okay. Let's go to so just taking note	09:47:02
21	there of the application number that I referenced,	
22	11/680,407, let's go look at the cover of the '360	
23	patent.	
24	A '360?	
25	Q Yeah. I want to direct your attention to	09:47:30
		Page 23

1	the same "Related U.S. Application Data" section on	09:47:31
2	the cover.	
3	Do you see that?	
4	A Yes, I do.	
5	Q Now here we have to go through a few more	09:47:40
6	steps, but you see that the three the application	
7	that led to the '360 patent was a continuation of	
8	Application 14/819,107 filed on August 5, 2015?	
9	A Yes, I do.	
10	Q And then do you see below that it	09:47:59
11	indicates that there's a that this section is	
12	continued on the next page?	
13	A Yes.	
14	Q Okay. So, flipping to the next page then,	
15	do you see where this section continues?	09:48:12
16	A It's in the section headed "Related U.S.	
17	Application Data" on page	
18	Q Yes, exactly.	
19	A Uh-huh.	
20	Q So you see that there is another	09:48:30
21	continuation then to Application 13/842,478?	
22	A Yes.	
23	Q Is that correct?	
24	A Yes.	
25	Q Okay. And I'll just note that that patent	09:48:41
		Page 24

1	is or that application issued as Patent	09:48:44
2	9,135,636.	
3	Do you see that?	
4	A Yes.	
5	Q And do you recall that one of the patents	09:48:56
6	we looked at last time was that '636 patent?	
7	A Yes.	
8	Q And then you see that that patent was a	
9	continuation of Application 11/680,407.	
10	Do you see that?	09:49:14
11	A Yes.	
12	Q Okay. And that '407 application, which	
13	was filed on February 28, 2007, is the same	
14	application that we noted on the '887 patent or	
15	that the '887 patent was a continuation of, correct?	09:49:32
16	A Yes, that's correct.	
17	Q So it's fair to say that both the '887	
18	patent and the '360 patent have a direct	
19	continuation line to this same '407 application; is	
20	that correct?	09:49:54
21	MR. SPRENGER: Objection to form.	
22	THE WITNESS: Yes, that appears to be the	
23	case here, yeah.	
24	BY MR. BERG:	
25	Q Did you investigate you mentioned there	09:50:03
		Page 25

1 was added material. And we identified some of those 09:50:04 2 instances in the summary of the invention. And you mentioned that you know of others in the detailed 3 4 description. 5 Yeah. I said -- just to clarify, I said I А 09:50:17 really think there may be others in the detailed 6 7 description, having read both of them. But, you 8 know, I'm not sure of that. It's a question of --9 probably the only way to be absolutely definitive would be to do some kind of word -- you know, some 09:50:35 10 11 kind of compare. 12 But, of course, because all the columns and everything are shifted, you can't do that very 13 easily. So, yeah, it's -- it's -- you know, it's 14 15 something that I certainly haven't done, so I can't 09:50:49 16 be certain. 17 0 Fair enough. And I'll think about if we 18 want to do a comparison that we can show you at another junction in the deposition, and we can talk 19 20 through some of those differences. 09:51:02 Setting that aside -- and understanding I 21 22 wasn't trying to put words in your mouth in terms 23 of, you know, that there is added material. 24 But, in terms of the differences that you 25 have identified, did you do any investigation to see 09:51:19 Page 26

1 at what point after the '407 application those items 09:51:23 2 were added or removed to lead to two different, you know, patents? 3 4 MR. SPRENGER: Objection to form. 5 THE WITNESS: No, I have not. 09:51:38 6 BY MR. BERG: 7 Q Okay. Let's go ahead and turn to the '887 8 declaration. 9 A Okay. So let's start out with paragraph 91 where 09:53:14 10 0 11 you were discussing the Eyal reference. 12 A Okay. If you'd just give me a second. I'm actually -- there we go. 13 Q No problem. I'm actually going to 14 15 introduce the Eyal. 09:53:43 16 A I'm making sure I've got it open in PDF form. 17 (Exhibit 7 marked for identification.) 18 BY MR. BERG: 19 20 Q Okay. And just I've gone ahead and 09:54:38 introduced Exhibit 7. 21 22 Can you let me know when you've got that? 23 Α Yes. I have that open. Okay. And what's Exhibit 7, Mr. Adams? 24 0 25 А This is United States Patent No. 09:55:12 Page 27

1	6,389,467.	09:55:18
2	Q And will you understand if I refer to this	
3	patent as the Eyal patent?	
4	A Yes, I will.	
5	Q And do you understand that the same patent	09:55:32
б	is marked as Exhibit Hulu Exhibit 1005 in both	
7	the '887 IPR petition and the '360 IPR petition?	
8	A Yes. I believe that's right, yeah.	
9	Q Okay. Now, I know we talked about the	
10	Eyal reference on Friday, and I'm hoping not to need	09:56:04
11	to repeat any of those questions, but just to give	
12	us kind of a baseline for what we're talking about	
13	here, could you just give me a brief description of	
14	what the Eyal reference is?	
15	MR. SPRENGER: Objection to form.	09:56:21
16	THE WITNESS: Yeah. It's you know,	
17	it's obviously quite a detailed patent. So it's	
18	difficult to just summarize it in a few words, but	
19	basically it's a system that allows somebody to	
20	discover or I should say the system itself	09:56:47
21	discovers by searching various websites,	
22	discovers links to media. And then these links to	
23	media could be passed to a media player, which could	
24	then play them back or play them out.	
25		
		Page 28

1	BY MR. BERG:	09:57:11
2	Q So, turning to paragraph 96 of your	
3	declaration.	
4	A Okay. You'll have to give me a second	
5	here because for some reason the one that I don't	09:57:27
6	seem to be able to download is I'm going to do it	
7	again is my declaration for '887.	
8	Q No problem. Take your time. Let's figure	
9	out getting that downloaded for you.	
10	A Okay. I think I managed to break through	09:57:49
11	the system this time. Yes. Now I have it open in	
12	Acrobat.	
13	And which section did you want me to look	
14	at?	
15	Q Yeah. So paragraph 96 is where I'm at.	09:58:03
16	And that's the section discussing Eyal. And that	
17	section starts on page 41.	
18	A Yes. I have that open in front of me now.	
19	Q Great.	
20	So, in paragraph 96 you talk about some of	09:58:17
21	the same aspects we just mentioned with Eyal. You	
22	said that it discloses a media search engine.	
23	Do you see that in paragraph 96?	
24	A Yes, I do.	
25	Q Okay. And then you note that, to request	09:58:33
		Page 29

1	media, a user enters search criteria in the search	09:58:36
2	engine and that based on the search criteria a	
3	network or web server module can return a playlist	
4	to a media playback component on a user device.	
5	Is that all correct regarding Eyal?	09:58:59
6	MR. SPRENGER: Object to form.	
7	THE WITNESS: Yes, it is.	
8	BY MR. BERG:	
9	Q Okay. And the playlist that's returned	
10	can include one or more URL links to media files,	09:59:09
11	which could be, for example, songs or movies on the	
12	different Internet servers that Eyal is searching.	
13	Is that a fair characterization?	
14	MR. SPRENGER: Objection to form.	
15	THE WITNESS: Yes. I believe that's fair.	09:59:29
16	BY MR. BERG:	
17	Q So, to your understanding, when a user	
18	enters a search term and Eyal generates this	
19	playlist, is it returning a pre-generated playlist	
20	or is it identifying from these third-party sites,	09:59:53
21	you know, material to include in the playlist and	
22	kind of generating the playlist based on the search	
23	request?	
24	MR. SPRENGER: Objection to form.	
25	THE WITNESS: In this particular aspect, I	10:00:12
		Page 30

1	believe that there is a matching of the search terms	10:00:17
2	with media links that the search engine has already	
3	discovered. And the matching items would form the	
4	playlist that's returned to the media playback	
5	component.	10:00:45
6	BY MR. BERG:	
7	Q I understand.	
8	So what you're saying is that when someone	
9	enters a search term I mean, say, for example,	
10	they search for jazz music. Eyal is not at least	10:00:58
11	in this instance that you're referring to here, Eyal	
12	is not going at that moment to all of these	
13	thousands of third-party sites and searching for	
14	music that would meet jazz music and then forming	
15	that into a playlist; is that correct?	10:01:16
16	MR. SPRENGER: Objection to form.	
17	THE WITNESS: Yeah. I believe the way	
18	it's described in Eyal is that the search could be,	
19	if you like, going on in the background, and Eyal is	
20	actually building a database of sorts of media and	10:01:32
21	the links to those media.	
22	And then, when the user enters a search	
23	term, there is essentially a process to match those	
24	terms those search terms with media that Eyal has	
25	already discovered. Although I think it could also	10:02:02
		Page 31

1	happen, you know but obviously sorry, I can	10:02:05
2	finish my sentence. It could also happen that, you	
3	know, maybe when you first turn the system of Eyal	
4	on that there is nothing in the database, in which	
5	case then it would have to go out and start	10:02:23
6	searching websites, and the user would obviously	
7	have to wait longer before they got any results.	
8	But I think the notion of Eyal is that	
9	these searches are the result of these searches,	
10	if you like, the web crawling aspect of Eyal, is	10:02:44
11	saved and can you used at a later time by a search	
12	from a user.	
13	BY MR. BERG:	
14	Q So taking setting aside the example	
15	where you're just turning on the Eyal system for the	10:03:06
16	first time and kind of generating all this stuff	
17	from scratch, it sounds like your understanding is	
18	there's a database that Eyal is generating, and it's	
19	kind of continuously maybe refreshing as it crawls	
20	these websites, and it's creating a list of or a	10:03:18
21	database of all these different media items that	
22	might be returned in a playlist.	
23	And then, when a user enters some search	
24	terms, Eyal identifies from its database links that	
25	would be appropriate to include in a playlist,	10:03:37
		Page 32

1	builds a playlist from those, and sends that to the	10:03:41
2	user, you know, and the playlist being multiple URL	
3	links; is that correct?	
4	MR. SPRENGER: Objection to form.	
5	THE WITNESS: Yeah. Just to unpack that a	10:03:52
6	little bit, because there was a lot in there I'll	
7	take one at a time, if I may.	
8	BY MR. BERG:	
9	Q Fair enough.	
10	A Yes. I think Eyal is saving the results	10:04:05
11	of its web crawling or searches of the web and on	
12	media sites that's available over the Internet. And	
13	those terms then those results then can be used	
14	by, you know I should say in relation to a	
15	particular search or request from the user, search	10:04:38
16	criteria into the search engine.	
17	And then those matching items that Eyal	
18	has would form the playlist. And those that	
19	playlist would contain a list of URLs to the various	
20	media that matched the search criteria.	10:05:10
21	Q And, at least in some embodiments of Eyal,	
22	just to make sure I'm understanding what you're	
23	saying, that playlist is generated for that specific	
24	search request, right? It's not like just	
25	identifying preformed playlists, for example?	10:05:32
		Page 33

1	A I believe that's the case, that the user	10:05:40
2	search criteria would in this case that we're	
3	talking about here, would be the basis for which	
4	media links are returned in the playlist.	
5	Q Now, a couple of paragraphs later here, I	10:06:12
6	think in paragraph yeah. At the very end of	
7	paragraph 102, you mention that a program can also	
8	be provided through one or more playlists that can	
9	be personalized for the user. And you cite to Eyal	
10	column 33, lines 9 through 20.	10:06:35
11	Can you explain a little bit about what	
12	you mean about the program being provided through	
13	the playlist that can be personalized for the user?	
14	A Yes. I'm just going to refresh my memory	
15	by looking up that reference to make sure I'm giving	10:06:50
16	you the right context.	
17	Q Absolutely.	
18	A Yeah. So, in that reference, Eyal is	
19	saying that in another embodiment the program may be	
20	provided by one or more playlists. And each	10:07:44
21	playlist in the program may be generated by a	
22	playlist generator, 1040 in figure 12.	
23	And the playlists may be personalized for	
24	the user of the end terminal. For example, a	
25	playlist may be generated for preferences and	10:08:02
		Page 34

1	profiles specified by the user of the terminal, of	10:08:04
2	the user terminal.	
3	So really what we're talking about here is	
4	that Eyal has the system of Eyal has some	
5	understanding of a user profile or preference, and	10:08:21
6	that would change potentially change the results	
7	from one user to another, even if they made exactly	
8	the same search request.	
9	Q So now I want to direct you to another	
10	part of Eyal in column 13.	10:08:51
11	A Okay.	
12	Q Column 13, lines 1 through 5.	
13	So, based on this reference, you agree	
14	that streaming media commercials may also be	
15	inserted into the playlist, correct?	10:09:24
16	A I'm just going to read the paragraph.	
17	Q Absolutely.	
18	A "In some embodiments, links to streaming	
19	media commercials may be inserted into the playlists	
20	in various locations between media clips. These	10:09:39
21	commercials are targeted to the audience likely to	
22	listen to the media available on the playlist."	
23	Yes. What I'm reading here I've	
24	forgotten your exact question. Maybe you could	
25	reask it.	10:10:00
		Page 35

1	Q Sure. So I just said that so based on	10:10:01
2	this reference, you would agree that streaming media	
3	commercials may also be inserted into the playlist,	
4	correct?	
5	A Yes. I believe that's what this paragraph	10:10:17
6	is describing.	
7	Q Okay. And so, kind of taking the example	
8	that we were talking about earlier of you know,	
9	of a user entering search terms and getting a	
10	playlist back, if commercials were going to be	10:10:33
11	sorry, media streaming commercials were going to be	
12	inserted into that playlist, that would be done at	
13	the same time as the playlist that generated and	
14	returned to the user; is that correct?	
15	MR. SPRENGER: Objection to form.	10:10:51
16	THE WITNESS: I'm I can't be absolutely	
17	sure because I'm not sure we're getting that level	
18	of specificity here. But they certainly that	
19	certainly could be the case, yes, that these	
20	commercials are targeted to the audience likely to	10:11:09
21	listen to the media on the playlist.	
22	So, basically, these are these	
23	commercials are based on what the audience of this	
24	media are going to be interested in. So, actually,	
25	to be clear, this is a little bit different from our	10:11:34
		Page 36
1	other reference that we looked at a moment ago	10:11:37
----	--	----------
2	because here the targeting appears to be based on	
3	the type of media that the user has requested;	
4	whereas, in the other example, I think we were	
5	talking about the profiles and preferences of the	10:11:55
б	of the user, which is, you know, a little broader.	
7	BY MR. BERG:	
8	Q Yeah. Fair point.	
9	I guess I wasn't very clear in my	
10	question.	10:12:10
11	I was I know we did talk about that	
12	customization. I was actually referring back to our	
13	discussion on how these playlists are generated, you	
14	know, from the point that a user makes a search, you	
15	know, for example, for jazz music. And we talked	10:12:25
16	through how, you know, the system would pull from	
17	its database to create this playlist.	
18	And so I guess with reference to	
19	column 13, what I'm asking is, in that scenario,	
20	when a user is entering a search generating you	10:12:42
21	know, the system is generating a playlist to return	
22	to the user, these media streaming commercials would	
23	be inserted into the playlist after the user made	
24	its search request; is that correct?	
25	A Yes. I believe so. And here inserted,	10:13:02
		Page 37

1	what we mean is that the playlist might be, you	10:13:08
2	know, one or two jazz songs that match the criteria,	
3	and then there might be an ad, and then there might	
4	be further jazz songs that match the criteria.	
5	So, rather than just providing all of the	10:13:27
б	songs, interleaved within these media references	
7	would be additional media references for	
8	advertisements, or I think they use the word here	
9	"commercials."	
10	Q And those commercials would be chosen and	10:13:53
11	inserted in the playlist at the time the playlist	
12	was generated?	
13	A Again, I can't be 100 percent sure. It	
14	says "inserted into the playlist." That could mean	
15	they generate the playlist first, and then	10:14:11
16	afterwards, before the playlist is returned to the	
17	user, these commercials or links to these	
18	commercials are inserted.	
19	But, in any case, I think it's clear here	
20	that by the time the media player receives the	10:14:27
21	playlist, the links to commercials are in the	
22	playlist.	
23	Q Right.	
24	And I see your point, that, like, there	
25	could be two steps after the user makes the request	10:14:45
		Page 38

1	for getting the commercials into the playlist. So	10:14:48
2	let me just ask that question a little bit	
3	differently.	
4	The commercials would be added to the	
5	playlist at some point after the user makes the	10:14:58
б	search request, correct?	
7	A I believe so, yes.	
8	Q Now, there's this word in the in	
9	column 13. It says that these commercials may be	
10	inserted between media clips.	10:15:16
11	Do you understand by "media clips" here	
12	that a media clip is referring to a full media	
13	asset, for example, a complete song?	
14	MR. SPRENGER: Objection to form.	
15	THE WITNESS: I'm not sure. I haven't	10:15:41
16	really gone back and looked at, in this patent, any	
17	other use of the word "media clip." But I don't see	
18	any reason why it should mean anything other than,	
19	for example, a song, given that we're talking here	
20	about the playlist, including media clips and the	10:16:09
21	songs, in this case. Like they could be described	
22	in this case as media clips, yes.	
23	BY MR. BERG:	
24	Q So reading "media clip," there is nothing	
25	that indicates to you that that media clip must only	10:16:31
		Page 39

1	be a part of a song, for example?	10:16:34
2	A I don't believe that this patent talks	
3	about the concept of a part of a song. So, yeah, I	
4	would have no reason to think that it would be.	
5	Q So Eyal is talking about inserting these	10:17:09
б	media streaming commercials. You know, obviously	
7	you have a lot of experience in kind of the media	
8	delivery space and in the streaming media space and	
9	these different things.	
10	Based on that experience, what is the	10:17:27
11	point of having commercials in streaming media in	
12	the streaming media context?	
13	MR. SPRENGER: Objection to form.	
14	THE WITNESS: Well, it's a very broad	
15	question. There are a number of different reasons	10:17:46
16	why you might want to include commercials. Let me	
17	give you one example, which is to generate revenue	
18	for the service.	
19	BY MR. BERG:	
20	Q And it seems like maybe kind of a basic	10:18:08
21	question, but why would you want to generate revenue	
22	for the service?	
23	A Well, let's take the example of broadcast	
24	television where some of the channels are	
25	ad-supported. So the funding of the purchase of	10:18:31
		Page 40

1	content, the delivery system itself is funded by	10:18:38
2	revenues from advertisers.	
3	Q And stepping aside from the broadcast	
4	television and into, you know, particularly	
5	streaming media, is it also possible to have	10:18:56
б	ad-supported streaming media?	
7	A Yes, it certainly is.	
8	Q And what costs are associated with	
9	streaming media? Maybe they're the same as what you	
10	just mentioned, but just to put it in that context.	10:19:15
11	MR. SPRENGER: Objection to form.	
12	THE WITNESS: Well, I can give you a	
13	partial laundry list, but it would include the cost	
14	of the content, the media itself that you would pay	
15	to the content owner for the use of the media.	10:19:34
16	It would include the storage of that media	
17	on the systems that you are using. It would include	
18	the network cost of transferring a certain number of	
19	bytes across the network to stream that media, and	
20	so on.	10:20:01
21	BY MR. BERG:	
22	Q You mentioned earlier that there may be	
23	other purposes for including advertisements as well	
24	in addition to revenue generation.	
25	Can you think of any of those right now?	10:20:22
		Page 41

1	A Yes. Believe it or not, some providers	10:20:28
2	believe that customers actually enjoy advertisements	
3	and appreciate them. And if you know, in some	
4	systems, if you do not like the advertisement,	
5	you're allowed to skip it. And so that gives	10:20:47
б	valuable feedback to the advertisers to which	
7	adverts you're interested in and you watch and which	
8	ones you skip.	
9	So it can generate a great deal of	
10	information for the advertisers beyond just simple	10:21:02
11	revenue.	
12	Q And in those cases, is there usually a	
13	revenue generation component as well?	
14	A I think it's difficult to say there always	
15	is, but it is common certainly that the notion of	10:21:21
16	inserting advertisements can have a revenue	
17	component.	
18	MR. BERG: You know, we've been going for	
19	not quite an hour and a half, but getting well over	
20	an hour. It might be a good time for a short break.	10:22:04
21	Would that be okay with you, Mr. Adams?	
22	THE WITNESS: Yes. That would be great.	
23	THE VIDEOGRAPHER: This marks the end of	
24	Volume 1, Media No. 1 of the deposition of Michael	
25	Adams. The time is 10:22 a.m. We're off the	10:22:17
		Page 42

1 record. 10:22:20 2 (Recess taken.) THE VIDEOGRAPHER: We are back on the 3 4 record at 10:36 a.m. This marks the beginning of Volume 1, Media No. 2 of the deposition of Michael 10:36:17 5 б Adams. Please continue. 7 BY MR. BERG: 8 0 Great. Thank you. 9 Welcome back, Mr. Adams. Thank you. 10:36:28 10 Α Did you speak with your counsel during the 11 Q break, Mr. Adams? 12 No, I did not. 13 Α Okay. Well, I think we were walking 14 Q 15 through some of the prior art here, so let's 10:36:43 16 continue with that. 17 I'd like to direct your attention to 18 section B, starting at paragraph 103, which is 19 dealing with the Angles reference. So, if you 20 wouldn't mind just glancing over that section while 10:37:00 I go ahead and mark Angles as an exhibit, that would 21 22 be great. 23 (Exhibit 8 marked for identification.) 24 BY MR. BERG: 25 Q Okay. So I've introduced that exhibit as 10:37:57 Page 43

1	Exhibit 8. Just let me know when you have access to	10:37:59
2	that.	
3	A Yes. I have the Angles patent open.	
4	Q Okay. So this is marked as Exhibit 8.	
5	Have you seen Exhibit 8 before, Mr. Adams?	10:38:16
б	A Yes.	
7	Q And what is it?	
8	A It is a U.S. Patent 6,385,592.	
9	Q Will you understand if I refer to this	
10	patent as Angles?	10:38:41
11	A Yes, I will.	
12	Q And I'll just note for the record that	
13	this is marked in the '887 IPR proceeding as Hulu	
14	Exhibit 1045.	
15	Do you agree with that?	10:39:01
16	A Yes.	
17	Q So, at a high level, can you just describe	
18	to me what the Angles patent is directed to?	
19	A Yes. As I say in my declaration at	
20	paragraph 103, it's a system and method for	10:39:25
21	delivering customized advertisements within	
22	interactive communication systems.	
23	And, basically, customized advertisements	
24	are selected based on user profiles and delivered	
25	with media content, which could be a selection of	10:39:48
		Page 44

1	music, for example, that's requested by the user.	10:39:52
2	Q And when you say that these advertisements	
3	are delivered with media content, for example, a	
4	selection of music requested by the user, in what	
5	way are these advertisements delivered with the	10:40:12
6	media content?	
7	A Yes. Angles describes a method by which	
8	the consumer accesses the content provider. And	
9	then in response, the content provider gets some	
10	kind of electronic document, which could be a	10:40:33
11	webpage. And embedded within that document is an	
12	advertisement request.	
13	And then that essentially causes the	
14	consumer's computer to be redirected, if you like,	
15	to an advertisement provider, which then provides a	10:40:59
16	customized advertisement.	
17	Q And, turning to paragraph 107 and I	
18	think you alluded to this earlier. But do you see	
19	that sentence at the end of the page there? It says	
20	"The advertisement computer runs the 'content	10:41:29
21	provider script' and using the 'consumer member code	
22	22 to access the consumer's profile' selects an	
23	'appropriate customized advertisement' to be sent to	
24	the consumer computer 12 to be delivered with the	
25	electronic page."	10:41:51
		Page 45

1	Is that the process that you were just	10:41:53
2	describing, Mr. Adams?	
3	A Yes. That summarizes that process, yes.	
4	Q So is it fair to say that these customized	
5	advertisements in Angles are customized at the level	10:42:14
б	of the individual consumer based on the consumer	
7	profile?	
8	MR. SPRENGER: Objection to form.	
9	THE WITNESS: Yes. I believe that they	
10	may be. And earlier, I think I note that the user	10:42:31
11	actually has to register with the advertisement	
12	provider and, as a result, communicates some	
13	information. And that directs the selection of the	
14	advertisement by the advertisement provider.	
15	BY MR. BERG:	10:43:07
16	Q Now, in paragraph 108, you talk about how	
17	the Angles system uses the content provider code to	
18	track advertisements delivered for each content	
19	provider.	
20	According to your understanding, why does	10:43:26
21	the Angles why does Angles track advertisements	
22	delivered for each content provider?	
23	A Well, as I say in 108, this these	
24	tracking indications are stored in an accounting	
25	database maintaining a record of which	10:43:50
		Page 46

1	advertisements have been viewed so that advertisers	10:43:54
2	can be billed based on actual delivery of the	
3	advertisements.	
4	Q And the revenue generated by these	
5	advertisements is divided up among various parties,	10:44:12
6	according to Angles, correct?	
7	A I believe it can be, yes.	
8	Q So, for example, some of the revenue might	
9	go to an Internet provider, as you note there in	
10	paragraph 108, right?	10:44:39
11	A Yes. Specifically, the Angles system can	
12	also pay an Internet provider based on the number of	
13	advertisements viewed by its user.	
14	Q And who else would in addition to the	
15	Internet provider, who else would the advertisement	10:44:57
16	revenue go to in the Angles system?	
17	A I believe it could also go to the content	
18	provider.	
19	Q Anyone else that you're aware of?	
20	A I do not believe that that is specified	10:45:13
21	further by Angles. But it could be. I mean, I	
22	haven't exhaustively searched his patent	
23	specification to see if there is other parties that	
24	could be credited.	
25	Q As a person of skill in the art reading	10:45:34
		Page 47

1	Angles and kind of given the costs associated with	10:45:36
2	providing media that we talked about earlier, would	
3	you expect that some of that advertising revenue may	
4	go to offsetting some of those other costs?	
5	A I think you can you be specific about	10:45:59
6	the other costs?	
7	Q Sure. Sure. That's a fair point.	
8	So when we talked earlier and I	
9	certainly don't want to put words in your mouth,	
10	actually, so let me just ask you here again so we	10:46:11
11	have a cleaner record.	
12	What costs are you familiar with as a	
13	person of skill in the art associated with	
14	delivering media content?	
15	MR. SPRENGER: Objection to form.	10:46:23
16	THE WITNESS: Let's call those the service	
17	provider costs, just to be give it a name.	
18	BY MR. BERG:	
19	Q Okay.	
20	A So the service provider would have costs,	10:46:31
21	including sharing revenue with the content	
22	providers, storage costs for media, streaming costs	
23	for delivering of that media, and so forth.	
24	Q Okay. And, as a person of skill in the	
25	art reading Angles, would you expect that some of	10:46:55
		Page 48

1	the advertising revenue would be used to pay for	10:46:59
2	those costs?	
3	A I believe that there could be a business	
4	model that shares some of the advertisement revenue	
5	with the service provider, yes.	10:47:15
6	Q Okay. While we're on this topic, let's go	
7	ahead and go to the section in the in your	
8	declaration on the Wolfe patent, which I believe	
9	starts at paragraph 119.	
10	A Okay.	10:48:15
11	Q I'll go ahead and mark that.	
12	(Exhibit 9 marked for identification.)	
13	BY MR. BERG:	
14	Q Okay. So I've just introduced Exhibit 9.	
15	Just let me know when you've had a chance to grab	10:48:46
16	that, Mr. Adams.	
17	A Okay.	
18	Yes. I've just opened Exhibit 9.	
19	Q And what is Exhibit 9?	
20	A It's United States Patent 5,931,901.	10:49:17
21	Q Have you reviewed this patent before?	
22	A Yes.	
23	Q And will you understand if I refer to this	
24	patent as "Wolfe"?	
25	A Yes.	10:49:33
		Page 49

1	Q Could you just give me a brief overview of	10:49:38
2	your understanding of the Wolfe patent?	
3	A Yes. It's entitled "Programmed Music on	
4	Demand from the internet." And it's a system for	
5	delivering music and targeted advertising messages	10:49:55
б	to Internet-based subscribers. And, specifically,	
7	Wolfe states that it's desirable to provide an	
8	Internet-based system for disseminating media	
9	without any cost to the user or subscriber.	
10	And, in order to provide that service	10:50:18
11	without charge, any charge, Wolfe discloses bundling	
12	program user with targeted advertisements to	
13	underwrite the costs.	
14	Q I'll just note for the record that this	
15	is this Wolfe patent is marked as Exhibit 1044 in	10:50:39
16	the '887 proceeding.	
17	Is that your understanding as well,	
18	Mr. Adams?	
19	A Yes.	
20	Q So just now you mentioned that in order to	10:50:55
21	provide program music via the Internet to	
22	subscribers without any charge that Wolfe discloses	
23	bundling the program music with targeted	
24	advertisements to underwrite the costs, correct?	
25	A That's correct.	10:51:12
		Page 50

1	Q And the costs that Wolfe is referring to	10:51:14
2	here, would you expect those to be the same costs	
3	that we've talked about earlier, you know,	
4	specifically the service provider costs, the content	
5	costs, perhaps the Internet architecture or the	10:51:31
6	Internet, you know, service costs, those kinds of	
7	things, the same ones that we have previously talked	
8	about?	
9	MR. SPRENGER: Objection to form.	
10	THE WITNESS: Yeah. I think those are the	10:51:44
11	three main categories, the cost of the media and the	
12	content provider. The content provider will demand	
13	the service provider costs, which we talked about	
14	before, to actually provide the service and deliver	
15	the media. And then any network costs to carry the	10:52:06
16	media to the subscriber. Yes.	
17	BY MR. BERG:	
18	Q And so, if Wolfe is disclosing using	
19	advertisements to underwrite those costs such that	
20	the music can be provided to subscribers for free,	10:52:24
21	would you understand that that advertisement revenue	
22	has to be divided such that it can cover all of	
23	those costs?	
24	MR. SPRENGER: Objection to form.	
25	THE WITNESS: For the service to break	10:52:39
		Page 51

1	even or make a profit, yes, it would.	10:52:42
2	BY MR. BERG:	
3	Q And, as a person of skill in the art, if	
4	you were attempting to implement Wolfe, would you	
5	want to break even or make a profit?	10:52:59
6	A I think that would be a business decision	
7	rather than a technical decision.	
8	Q Fair enough.	
9	Okay. Let's see if there's anything else	
10	I want to cover on these. I do want to cover the	10:53:30
11	Madison reference as well, but I think we'll do that	
12	later, after lunch, once we've had a chance to nail	
13	down how we're treating the previous deposition	
14	because there is some relationship there with the	
15	other Madison reference that I'd like to talk about	10:53:47
16	when we do that. So I'll hold off on that for now,	
17	and we can skip down to some other aspects.	
18	So let's actually go earlier in your	
19	declaration to the section well, let's go to	
20	paragraph 56.	10:54:18
21	A Okay.	
22	Q And so here we're talking about we're	
23	in the section of your declaration talking about	
24	problems with existing streaming systems.	
25	And feel free to take a second to orient	10:54:39
		Page 52

1	yourself to what's going on here, but it looks like	10:54:41
2	you've pulled several quotes from the provisional	
3	application that are generally talking about some of	
4	the problems that the inventors allegedly identified	
5	with the existing systems.	10:54:56
б	Is that a fair characterization of where	
7	we're at?	
8	MR. SPRENGER: Objection to form.	
9	THE WITNESS: Yes. I believe that's the	
10	case. And I refer here to Exhibit 1011 in addition	10:55:07
11	to Exhibit 1001. And these sections that I	
12	reference are included in the declaration are	
13	specific to particular, you know, difficulties with	
14	enhanced media streaming services that are listed or	
15	detailed by the '887 patent in its earlier	10:55:45
16	application.	
17	BY MR. BERG:	
18	Q Great.	
19	And, of course, Exhibit 1011 or 1001	
20	that you referred to is the '887 patent that we have	10:56:00
21	marked here and that you have access to. If you	
22	need to reference that feel free.	
23	Exhibit 1011 is the provisional	
24	application. I think you referred it as the '044	
25	provisional application?	10:56:20
		Page 53

-		10.55.00
1	A Yes. I believe that is Exhibit 1011, yes.	10:56:22
2	Q So I haven't introduced that as an	
3	exhibit, but as we're talking, if you'd like to	
4	refer to it, please just let me know. I'm happy to	
5	introduce it. Obviously, you have got a lot of	10:56:36
6	excerpts from it here, so we may not need to. But	
7	I'm happy to if you'd like to see it.	
8	A No. I think it would be a good idea to	
9	have it available for reference.	
10	Q Let me get that for you.	10:56:52
11	(Exhibit 10 marked for identification.)	
12	BY MR. BERG:	
13	Q I've introduced Exhibit 10. Just let me	
14	know when you've got that available?	
15	A Yes. I've been able to open it now.	10:57:53
16	Q And what is Exhibit 10, Mr. Adams?	
17	A It's a provisional application for a	
18	patent. And it's got a date of 01/19/01 on it. And	
19	I'm just going to move down a little bit here to	
20	where it actually says what it is. But I recognize	10:58:23
21	it as the operational concept description for a	
22	media routing algorithm.	
23	Q And I'll note for the record that	
24	Exhibit 10 is marked as Hulu Exhibit 1011 in the	
25	in both the '887 and the '360 IPR proceedings.	10:58:49
		Page 54

1	Does that sound right to you, Mr. Adams?	10:58:53
2	A Yes. I believe that's correct.	
3	Q Okay. And the Exhibit 10 is the	
4	provisional application that both the '360 patent	
5	and the '887 patent claim priority to; is that	10:59:09
6	correct?	
7	A Yes, that's correct.	
8	Q Okay. And you'll understand if I refer to	
9	this as the '044 provisional?	
10	A Yes, I will.	10:59:24
11	Q And you've reviewed this document before?	
12	A Yes, I have.	
13	Q Did you review it in preparation for	
14	today's deposition?	
15	A I'm not sure, actually. I don't I	10:59:35
16	don't think I did, but I'm not sure.	
17	Q Okay. So now turning to paragraph 56 of	
18	your declaration.	
19	So you state here, and quoting from the	
20	'887 patent, that "Realtime media streaming can be	11:00:01
21	difficult to implement because realtime media	
22	applications are resource-intensive and lack	
23	sufficient state control models to ensure proper	
24	quality of service."	
25	Is that correct?	11:00:19
		Page 55

1	A That is correct.	11:00:21
2	Q So what's meant by "realtime media	
3	applications are resource-intensive"?	
4	A Well, I think what we're referring to here	
5	is that streaming media in realtime can result in a	11:00:39
6	lot of resource utilization, both in the network in	
7	terms of transferring potentially a rapid a	
8	high-bandwidth stream of packets across the network	
9	in the server systems that are streaming those	
10	that media, and potentially also at the client side,	11:01:15
11	at the user side, where the computing device that	
12	the user is using is let's say the device the	
13	user is using, whether it's a set-top box or a	
14	laptop or anything, has to be able to keep up with	
15	the stream of media. And, commonly, it has to	11:01:49
16	decode it in realtime and present it in realtime to	
17	the user, to the viewer.	
18	Q Now, I recall from our previous	
19	conversation that you spent quite a long time, I	
20	think maybe more than a decade, at Time Warner Cable	11:02:22
21	doing various forms of media delivery work; is that	
22	correct?	
23	A Yes, that's correct.	
24	Q As part of that work, you dealt with	
25	streaming media?	11:02:36
		Page 56

1	A Yes, I did.	11:02:37
2	Q And this is starting in the kind of early	
3	to mid-'90s and going through to kind of the early	
4	to mid-2000s, if I remember right; is that right?	
5	A Yes. From 1993 through the end of 2003.	11:02:49
6	Q So, when you first started working on	
7	streaming media in 1993, did you notice that this	
8	was a problem with realtime media streaming, this	
9	kind of resource-intensive nature of realtime media	
10	streaming?	11:03:12
11	MR. SPRENGER: Objection to form.	
12	THE WITNESS: I was aware of these issues,	
13	yes. It is well known in the art that streaming	
14	media, in particular video, requires is	
15	resource-intensive, to use this terminology.	11:03:36
16	BY MR. BERG:	
17	Q And, in that time frame, kind of the early	
18	to mid-'90s, what was the impact of the	
19	resource-intensive nature of media streaming and	
20	video streaming in particular?	11:03:59
21	MR. SPRENGER: Objection to form.	
22	THE WITNESS: At that time in particular,	
23	networks and service systems and client devices were	
24	less capable than they were later on and have become	
25	since then. And, therefore, typically they were	11:04:27
		Page 57

1	more expensive. And, quite often, certain things	11:04:33
2	that are in the software at that time required	
3	hardware assist. So those were the kind of things	
4	that we had to deal with.	
5	BY MR. BERG:	11:04:52
6	Q And how did this kind of shortage of	
7	resources to handle the intensive requirements of	
8	video streaming impact the quality of the video	
9	streaming?	
10	A I don't think it necessarily did. Let me	11:05:20
11	give you an example. In 1994, we launched a VOD	
12	service known as the Time Warner Full Service	
13	Network, and the quality of that experience was very	
14	high. It just came at a cost in terms of the cost	
15	of the media servers, the cost of the network	11:05:42
16	implementation, and the cost of the set-top box.	
17	Q Okay. Sorry about that. I had some plugs	
18	that I had to deal with. And then it changed what	
19	screen you were on, and I kind of lost you for a	
20	second. But I should be good now.	11:06:11
21	So there wasn't necessarily a quality	
22	impact from the lack of resources, but well, and	
23	it sounds like, frankly, there wasn't a lack of	
24	resources, but you just had to pay more to get the	
25	appropriate resources to handle the media streaming	11:06:30
		Page 58

1	at that time.	11:06:33
2	Is that a fair summation of what you were	
3	saying?	
4	MR. SPRENGER: Objection to form.	
5	THE WITNESS: Yeah, I think that's a fair	11:06:41
6	characterization. It was resource-intensive to	
7	support streaming media, but if sufficient resources	
8	could be purchased or justified economically, then	
9	the quality of the media streaming could be high.	
10	I must point out that the system I	11:07:06
11	referred to at the time, Warner Full Service	
12	Network, was a private network and not the general	
13	Internet that was used to deliver the streaming	
14	service.	
15	I think that as we moved into later years	11:07:24
16	the biggest improvements or some of the larger	
17	improvements, I should say, not necessarily the	
18	biggest some of the largest improvements were in	
19	the network, and particularly in the Internet and	
20	the Internet's abilities to support streaming	11:07:40
21	sessions in megabits per second, whereas earlier it	
22	would have been in tens of kilobytes or maybe, you	
23	know, that kind of order of magnitude.	
24	So we had a very significant improvement	
25	over the time period that you referred to in the	11:08:01
		Page 59

1	Internet capabilities.	11:08:05
2	BY MR. BERG:	
3	Q So, in the mid to early '90s when you were	
4	implementing the full-service network, it sounds	
5	like you got around some of those shortcomings in	11:08:16
6	the Internet by implementing your full-service	
7	network on a private network rather than over the	
8	Internet; is that correct?	
9	A That's correct. We were not streaming	
10	over the Internet in the Time Warner Full Service	11:08:28
11	Network.	
12	Q And, if you would have been streaming over	
13	the Internet at that point, would you have expected	
14	that the system would have worked as well?	
15	MR. SPRENGER: Objection to form.	11:08:40
16	THE WITNESS: I believe it would be very	
17	unlikely to have worked as well over the public	
18	Internet.	
19	BY MR. BERG:	
20	Q And that's just a function of the public	11:08:48
21	Internet at that time not having sufficient	
22	resources to handle video streaming effectively; is	
23	that correct?	
24	A That's correct. We really had to wait	
25	until the advent of cable modem technology, which I	11:09:05
		Page 60

1	was also involved in, and DSL technologies, which	11:09:10
2	started to appear commercially in the 196 1996	
3	sort of time frame. We did trials of cable modem	
4	technology in the 1996 time frame at Time Warner	
5	Cable.	11:09:32
б	Q So, setting aside the kind of private	
7	streaming or private network aspect of the Full	
8	Service Network, at some point the resource	
9	availability for streaming over the Internet	
10	improved such that streaming video over the Internet	11:09:56
11	was a viable solution; is that correct?	
12	MR. SPRENGER: Objection to form.	
13	THE WITNESS: I wouldn't characterize it	
14	that way. It wasn't a step function.	
15	BY MR. BERG:	11:10:18
16	Q So how would you characterize it?	
17	A I think it was a gradual change. To begin	
18	with, streaming media might have been limited to	
19	audio or very low-quality video. And the quality of	
20	experience wasn't good for the user. There might	11:11:05
21	have been interruptions in streaming, quite	
22	commonly.	
23	And then, gradually, as servers became	
24	more capable and as the Internet became faster and,	
25	in particular, we had a what's called the last	11:11:23
		Page 61

1	mile, which is the connection between the last mile	11:11:29
2	to the subscriber. Could be the speed of that	
3	connection could be improved considerably by the use	
4	of things like cable modem technology.	
5	And then the indeed, the user's device	11:11:46
6	became more capable with faster processors, more	
7	memory, and so on and so forth. That gradually	
8	caused streaming media to evolve from being audio	
9	and low-quality video to full what we might call	
10	a consumer electronics quality similar to a DVD, for	11:12:13
11	example, streaming by maybe the early to mid-2000	
12	time frame.	
13	Q And then kind of since the early to	
14	mid-2000s time frame to now, have those improvements	
15	in kind of the network infrastructure and consumer	11:12:41
16	devices continued to improve to the present time?	
17	A Yes, they have. In fact, today it's	
18	common to be able to stream media at high definition	
19	and even at higher than high definition. 4K	
20	resolution, for example, at high frame rates.	11:13:06
21	So, yes, this gradual change has continued	
22	and probably accelerated over the last 15 years.	
23	Q So, in other words, one way to overcome	
24	the resource-intensive nature of streaming video is	
25	to improve the resources and add more resources to	11:13:39
		Page 62

1	handle that functionality; is that correct?	11:13:45
2	A Yes. That is correct. Just simply adding	
3	resources can be used to address the	
4	resource-intensive nature of streaming media.	
5	Q And, in fact, it sounds like in your	11:14:05
6	experience over the last three decades kind of	
7	experiencing streaming media, that's exactly what's	
8	happened is those functionalities and resources have	
9	improved, and as a result, streaming has improved	
10	accordingly; is that true?	11:14:21
11	MR. SPRENGER: Objection to form.	
12	THE WITNESS: Yes. In general, that's the	
13	case. I think there have also been advancements in	
14	the management of the resources themselves, which	
15	can also be an alternative way of managing this	11:14:42
16	difficulty.	
17	BY MR. BERG:	
18	Q Now, turning back to paragraph 56 of your	
19	declaration.	
20	A Yeah.	11:15:02
21	Q The other thing that you identify here as	
22	a difficulty for realtime media streaming is that	
23	"realtime media applications lack sufficient state	
24	control models to ensure proper quality of service."	
25	Can you talk to me a little bit about what	11:15:19
		Page 63

1	you mean by "state control models"?	11:15:22
2	A Yes. Well, I can talk to you about what I	
3	believe the '044 provisional and the '887 patent	
4	mean by those terms.	
5	Q Perfect. That would be an even better	11:15:43
б	question to answer.	
7	A So "state control" means monitoring and	
8	managing the state of the system. And that includes	
9	things like resource allocation and detecting	
10	failures and what's called fail-over and preventing	11:16:10
11	things like unauthorized access and so forth.	
12	Q Okay. Now, further down in paragraph 56	
13	you have a long block quote from I think it's	
14	from the '887 patent, but correct me if that's	
15	wrong. I'll go ahead	11:17:01
16	A I believe I think we should probably	
17	verify that it is from the '887 patent, but	
18	certainly that's that appears to be my reference.	
19	It's column 2, lines 4 to 20 of the '887 patent.	
20	All right. Yes. Just checking that.	11:17:39
21	Yes, it is. It appears at the top	
22	of	
23	Yeah. Sorry. Found it. Yes. It is in	
24	the '887 patent in column 2, starting on line 4.	
25	Q Now, at the end of that quote, do you see	11:18:43
		Page 64

1	the sentence that begins "Finally, the current	11:18:45
2	streaming video networks"?	
3	A Yes, I do.	
4	Q So could you just read that sentence for	
5	the record, and then we'll break it down a little	11:18:54
6	bit?	
7	A Yes, I can.	
8	"Finally, the current streaming video	
9	networks lack sufficient notions or network-wide and	
10	multilevel resource allocation and control trouble	11:19:19
11	detection and automatic fail-over transparent to the	
12	viewer, and sophisticated anti-spoofing, denial of	
13	service prevention, and unauthorized access	
14	prevention techniques."	
15	Q Okay. So let's go through each of these.	11:19:43
16	Hopefully, we can do this relatively quickly.	
17	So there's several kind of these issues.	
18	I think these are a lot of these are similar to	
19	the state control issues that you had mentioned just	
20	a few minutes ago. And I'm just curious, what	11:20:03
21	component in the '887 patent handles each of these.	
22	So, first of all, with the network-wide	
23	and multilevel resource allocation and control, do	
24	you know what component of the '887 patent handles	
25	that aspect?	11:20:30
		Page 65

1	A Yes, I believe I do.	11:20:32
2	Q And what component is that?	
3	A Well, actually, there are multiple	
4	components that coordinate to provide it. Probably	
5	the primary component is the RTSMS, which is looking	11:20:43
6	at resource allocation. And then I believe also the	
7	NRP, the name routing processor, is looking at	
8	network path optimization. So, basically, at least	
9	those two components.	
10	Q And then the next one here is "trouble	11:21:20
11	detection and automating fail-over transparent to	
12	the viewer."	
13	Which components in the '887 patent are	
14	disclosed as handling those functions?	
15	A Again, I believe there are several	11:21:36
16	components because, obviously, the first component	
17	is the one that would detect a failure. I believe	
18	that would be the MMS in this implementation.	
19	And then there are other components that	
20	would reroute to another MMS and potentially a	11:21:52
21	different network path. So I believe, again, the	
22	RTSMS and the NRP would probably be involved in that	
23	fail-over.	
24	I should note that I haven't specifically	
25	studied all of the ways that this patent describes	11:22:16
		Page 66

1	this. I have read them. So I haven't studied this	11:22:19
2	bit in detail.	
3	Q Understood.	
4	What is meant by "automatic fail-over"?	
5	A In general, automatic fail-over I	11:22:33
б	understand to be, if there is a failure within the	
7	system that's delivering a particular in this	
8	example, a particular media stream, then there is a	
9	mechanism to recover from that without the viewer,	
10	in this case, the communication device, having to	11:22:58
11	take further action. So that's the automatic nature	
12	of it.	
13	Q Okay. Moving on to the next one, we have	
14	"sophisticated anti-spoofing."	
15	Do you know which component disclosed by	11:23:18
16	the '887 patent handles sophisticated anti-spoofing?	
17	A I'm not sure. That's something I haven't	
18	really studied in detail.	
19	Q How about "denial of service prevention"?	
20	A Again, I I'm not sure I can venture an	11:23:41
21	opinion on that without further research into the	
22	details of the 50 or so columns in the	
23	specification.	
24	Q It's a long specification.	
25	Okay. And how about last one,	11:23:59
		Page 67

1	"unauthorized access prevention techniques"?	11:24:00
2	A Again, I'm not sure, but I believe	
3	probably the RTSMS has the ability to identify the	
4	communication device. And, if it doesn't recognize	
5	it, then it would it wouldn't allow access.	11:24:21
6	There is also another mechanism where the	
7	reservation ID is checked at the MMS before a stream	
8	is delivered. So a couple mechanisms that I'm aware	
9	of.	
10	Q Great.	11:24:43
11	Now, in paragraph 57 you say "To overcome	
12	these system-related problems, the inventor sought	
13	ways to improve the operation of streaming systems."	
14	And you go on and I think identify two or maybe	
15	we could say two parts of a single solution, but I	11:25:04
16	think the two here are delivering the requested	
17	media, e.g., a program segment by segment, and	
18	enabling the user device as opposed to the back-end	
19	streaming server to control the process of streaming	
20	the segments.	11:25:23
21	Is that a fair summation?	
22	A Yeah. That's correct. That's I think	
23	you've read that fairly directly from paragraph 57.	
24	So yes, I would agree with that.	
25	Q Okay. So, of the problems that we just	11:25:46
		Page 68

1	walked through, the resource allocation, trouble	11:25:49
2	detection, automatic fail-over, anti-spoofing,	
3	denial of service prevention, unauthorized access	
4	prevention, are any of those problems solved by	
5	delivering requested media segment by segment?	11:26:08
6	A I think we should probably step through	
7	those one at a time rather than trying to answer the	
8	whole thing. What was the first one?	
9	Q So I'm just walking through those the	
10	things that we talked about in the previous	11:26:24
11	paragraph.	
12	So the first one was "network-wide and	
13	multilevel resource allocation."	
14	A Yeah. I believe that the concept	
15	introduced in '887 and '360 as well is that, rather	11:26:39
16	than streaming the media in its entirety, the media	
17	can be broken down into parts or portions or	
18	segments. All of these terms are used.	
19	And, therefore, when we talk about	
20	allocating resources, we're now allocating resources	11:27:10
21	for a part of the requested media rather than the	
22	whole. Because a part is smaller than the whole,	
23	allocating resources is more straightforward and for	
24	a shorter period of time.	
25	So I think, in that case, yes, there is	11:27:31
		Page 69

1	a you could call it improvement in the ability to	11:27:36
2	do resource allocation.	
3	Q Can you point me to anywhere in the '887	
4	patent that makes that connection between	
5	segment-by-segment streaming and resource	11:27:48
6	allocation?	
7	A At this point in time, I don't know if I	
8	can I don't have a particular section of it	
9	bookmarked. I was speaking as somebody, you know,	
10	of ordinary skill in the art. So no. I mean, I'm	11:28:11
11	happy to go look for it if you want me to.	
12	Q Well, can you is there anywhere in your	
13	declaration where you link this solution to that	
14	resource allocation problem, kind of referring to	
15	the '887 patent or citing to the '887 patent?	11:28:40
16	A Well, I believe that I have done that in	
17	paragraph 57 because I've listed these problems in	
18	56, and then I've talked about the solutions of the	
19	'887 patent, including delivering requested media	
20	segment by segment.	11:29:14
21	Q So sorry, my question was a little bit	
22	different. In paragraph 57, you don't actually cite	
23	to the '887 patent, correct?	
24	A Yeah. There isn't a specific reference	
25	here.	11:29:28
		Page 70

1	Q So what I'm asking is if there is anywhere	11:29:29
2	in your declaration where you do provide a specific	
3	reference to the '887 patent, kind of making this	
4	link between the segment-by-segment streaming and	
5	the resource allocation.	11:29:40
б	A I'm not sure, actually.	
7	Q Sitting here right now, you're not aware	
8	of an instance where you do that; is that correct?	
9	A One doesn't spring to mind as I'm sitting	
10	here right now.	11:29:56
11	Q So, as you described a second ago, kind of	
12	the way that you were connecting the	
13	segment-by-segment streaming and solving the problem	
14	of resource allocation is examining this as a person	
15	of skill in the art kind of looking at what the	11:30:16
16	impact of segment-by-segment streaming would be; is	
17	that correct?	
18	A That's correct. As I previously stated,	
19	resource allocation is made easier if the resources	
20	are smaller or are required for a shorter period of	11:30:39
21	time. And by breaking the requested media down into	
22	segments or portions, then I've made the problem	
23	smaller, if you like.	
24	Q So let's go to the next one here. So the	
25	next one was "trouble detection and automatic	11:30:58
		Page 71

1	fail-over transparent to the viewer."	11:31:02
2	So does delivering the requested media	
3	segment by segment solve the problems associated	
4	with trouble detection and automatic fail-over	
5	transparent to the viewer?	11:31:17
6	A I'm not sure. I haven't studied that.	
7	Q Let's go to the next one then, the	
8	"sophisticated anti-spoofing."	
9	Does the segment-by-segment delivery solve	
10	that problem associated with sophisticated	11:31:38
11	anti-spoofing?	
12	A Well, I believe sophisticated	
13	anti-spoofing here is a solution, essentially. I	
14	mean, they're saying what I mean by that is	
15	they're saying current streaming in networks lack	11:32:03
16	anti-spoofing.	
17	So anti-spoofing is kind of a solution.	
18	If the idea is, if you added anti-spoofing, then	
19	you would address the problem of the lack of it.	
20	Q Right. That's fair. Let me rephrase my	11:32:18
21	question, in that case.	
22	Does segment-by-segment streaming enable	
23	sophisticated anti-spoofing?	
24	A Again, I'm not able to give an opinion on	
25	that without further study.	11:32:38
		Page 72
1	Q Okay. Does segment-by-segment delivery	11:32:40
----	---	----------
2	enable denial of service prevention?	
3	A Again, I would have to look in more detail	
4	to render an opinion on that.	
5	Q Sitting here today, you're not aware of	11:32:58
б	any reason that that would be the case?	
7	MR. SPRENGER: Objection to form.	
8	THE WITNESS: I'm not aware of any reason	
9	it would be or would not be the case. I have no	
10	opinion at the present time.	11:33:13
11	BY MR. BERG:	
12	Q And does do you have any opinion on	
13	whether segment-by-segment delivery enables	
14	unauthorized access prevention techniques?	
15	A Certainly the system of '887 describes how	11:33:29
16	to prevent unauthorized access. As we talked	
17	earlier, it's associated with the use of the	
18	reservation ID. And so it's included as part of	
19	the of the mechanism whereby a portion of media	
20	is first you check the reservation ID before that	11:34:02
21	portion of media is streamed. So it's integral to	
22	unauthorized access prevention.	
23	Q So it's related to the portion-by-portion	
24	or segment-by-segment delivery, but specifically	
25	enabled by the reservation ID; is that correct?	11:34:22
		Page 73

1	A The reservation ID is an integral part of	11:34:29
2	the mechanism to check for unauthorized access. If	
3	the reservation ID is not correct, then the there	
4	will be a denial of streaming for that portion.	
5	Q Okay. Turning to the second half of the	11:34:46
6	ways that you say that the '887 improved the	
7	operation of streaming systems and solved these	
8	problems. It's enabling the user device to control	
9	the process of streaming segments in order to	
10	present a complete presentation.	11:35:09
11	So how does well, let me back up.	
12	Does allowing the user or enabling the	
13	user device to control the process of streaming	
14	segments solve the problems associated with	
15	multilevel resource allocation and control?	11:35:31
16	MR. SPRENGER: Objection to form.	
17	THE WITNESS: Yes. I believe that is	
18	helpful, for the same reasons that I've described.	
19	We've broken the program down into portions, and now	
20	each portion is requested by the user device and, if	11:35:52
21	you like, controlled by that.	
22	And so, yes, I believe it for the same	
23	reason I gave you before, it is helpful because each	
24	resource allocation can be smaller and for a shorter	
25	period of time.	11:36:16
		Page 74

1	BY MR. BERG:	11:36:19
2	Q And is your answer also the same as	
3	before, that the way you've come to this	
4	understanding is based on your knowledge as a person	
5	of skill in the art kind of looking at what the	11:36:26
б	impact of enabling user device control would be?	
7	A Yes. I'm looking at the system. And, as	
8	somebody with ordinary skill in the art, I'm	
9	analyzing what the impact of breaking media down	
10	into segments or portions would be when applied to	11:36:53
11	this patent specification, yes.	
12	Q But, at least sitting here today, you	
13	can't identify anywhere in the patent that connects	
14	enabling user device to control the streaming	
15	process and solving the multilevel resource	11:37:13
16	allocation and control problems, correct?	
17	MR. SPRENGER: Objection to form.	
18	THE WITNESS: If you're saying is it	
19	explicitly stated in the patent description, then I	
20	did not have a handy reference. But it may well be	11:37:28
21	explicitly stated at some point. I just don't have	
22	a reference to it right now.	
23	BY MR. BERG:	
24	Q Understood.	
25	So then, going to the next problem here,	11:37:41
		Page 75

1	the problems in the prior art with trouble detection	11:37:46
2	and an automatic fail-over transparent to the	
3	viewer.	
4	Is that problem solved by enabling the	
5	user device to control the process of streaming the	11:37:57
6	segments?	
7	A Again, speaking as somebody with ordinary	
8	skill in the art, it certainly can be very helpful	
9	for that. For example, if I tried to stream a	
10	portion of the media and it fails because the user	11:38:15
11	device has made that request, I could either	
12	re-request it or I could skip over it and move on to	
13	the next the next portion.	
14	So, yeah, it does facilitate ways to deal	
15	with the trouble detection and allow the	11:38:40
16	communication device in this case to implement a	
17	fail-over mechanism.	
18	Q Okay. Let's go down to paragraph 58 here.	
19	A Yep.	
20	Q So, in paragraph 58, you have a statement	11:39:17
21	at the first, which I believe is a summary of the	
22	quote that you have from the '044 provisional	
23	application. And I'm just want to make sure that	
24	these are saying the same thing.	
25	So would you mind just reading to yourself	11:39:36
		Page 76

1	paragraph 58 and then the quote that you've	11:39:39
2	highlighted here in the box below paragraph 58?	
3	A Okay.	
4	Yes. I've read both.	
5	Q So, starting with the quote in the '044	11:40:03
6	provisional application, particularly the last	
7	sentence. So it says "The MRA is designed to	
8	advance the art of streaming media out of a content	
9	delivery network style architecture and move it	
10	toward an interactive television architecture."	11:40:23
11	A Yes. That's correct.	
12	Q So, when that quote says "to move	
13	streaming media out of a content delivery network	
14	style architecture and towards a television	
15	architecture," what do you understand from that?	11:40:41
16	A I believe that this media routing	
17	algorithm is an advancement over traditional CDN	
18	style architecture.	
19	Q And so what are the differences between a	
20	CDN style architecture and an interactive television	11:41:10
21	architecture?	
22	A It's impossible to be specific about that	
23	given, you know, the generality of the question.	
24	You know, for example, interactive television	
25	architectures might well use CDN or may use some	11:41:34
		Page 77

1	other implementation. So I'm familiar with both.	11:41:39
2	I don't think that CDNs and interactive	
3	television architectures are necessarily joint, you	
4	know, separate fields. It's much more subtle than	
5	that.	11:41:57
6	Q So reading that quote from the	
7	provisional, what aspects of the CDN style	
8	architecture are do you understand the inventors	
9	were suggesting should be discarded in favor of the	
10	interactive television architecture features?	11:42:11
11	A Again, it's very difficult to answer that	
12	question. I don't know what they were thinking when	
13	they wrote this specifically. One of the things	
14	they do, I think, say about CDN architectures is	
15	that they are stateless. And I believe the MRA	11:42:36
16	architecture, the media routing algorithm, is	
17	more has contains more state. And the	
18	inventors are definitely in favor of a system which	
19	contains more state information.	
20	Q And, when you say "state information,"	11:43:01
21	what are you referring to?	
22	A The state of the various components. In	
23	other words, whether they are operational or not,	
24	how much they're used or not used. How much of	
25	their resources have been allocated and how much has	11:43:23
		Page 78

1	not been allocated. How much of a network path has	11:43:29
2	been allocated or not allocated. Those kinds of	
3	things.	
4	Q Now, in the late '90s, you were familiar	
5	with the existing well, late '90s and early	11:43:41
6	2000s, you were familiar with the existing CDN	
7	architectures, correct?	
8	A Yes, I was.	
9	Q For example, I think the provisional	
10	application recognizes or I think the provisional	11:43:53
11	application mentions the Akamai CDN network; is that	
12	correct?	
13	A Yes. And I was very aware of Akamai at	
14	that time.	
15	Q So do you agree with the provisional's	11:44:06
16	characterization that the existing CDN architecture	
17	such as the Akamai CDN were stateless in the way	
18	that you've described?	
19	MR. SPRENGER: Objection to form.	
20	THE WITNESS: Yes, I do. I would say	11:44:26
21	that, you know, the CDN architectures implemented by	
22	Akamai and other companies at the time, that was one	
23	of their attributes. And I think, if you talk to	
24	Akamai at the time, as I certainly did, they would	
25	consider that an advantage of their solution.	11:44:51
		Page 79

1		11:45:00
1	BY MR. BERG:	11.45.00
2	Q And are you still familiar with the Akamai	
3	CDN architecture through the present day?	
4	A I would say that I do not track it as	
5	closely as I used to, but I'm aware of it at a high	11:45:09
6	level. I certainly haven't looked at the code or	
7	detail specifications of it recently.	
8	Q And, according to your understanding, is	
9	that stateless nature still a feature of the modern	
10	Akamai CDN?	11:45:34
11	A I really don't know.	
12	Q Are there any other modern CDNs that	
13	you're more familiar with than the Akamai?	
14	A No. I wouldn't say I'm have you	
15	know, modern CDNs are not a current field of study	11:45:56
16	for me at the moment, no.	
17	Q Okay. So going down to paragraph 61	
18	well, 60 and 61, actually.	
19	A Okay.	
20	Q So, in these two paragraphs, you talk	11:46:22
21	about you use two different terms, and you quote	
22	them from the provisional application as well. But	
23	you talk about a program and you talk about a	
24	presentation.	
25	And I'm just wondering, in your mind,	11:46:36
		Page 80

1	what's the distinction between a program and a	11:46:40
2	presentation, as those terms are used in the '887	
3	patent?	
4	MR. SPRENGER: Objection to form.	
5	THE WITNESS: Yeah. There is a	11:46:49
6	distinction between the two terms. I understand a	
7	program to be something that's defined by the	
8	content owner. And there is a component called the	
9	ESRP, which is used to do that and to populate the	
10	programs so they can be streamed.	11:47:14
11	And the distinction of a presentation is	
12	that it's a dynamically created program or list of	
13	programs. It can include programs multiple	
14	programs, in fact, and I think it can also include	
15	advertisements, other media and programs	11:47:37
16	requested and program requested by the user.	
17	BY MR. BERG:	
18	Q And is it your understanding that the play	
19	script returned to the user comprises the list of	
20	media associated with a presentation or the list of	11:48:03
21	media associated with a program?	
22	A I think I'd have to check. I think it	
23	may change according to the embodiments. But I	
24	believe that the in at least one embodiment, the	
25	play script reflects the list of media in the	11:48:27
		Page 81

1 presentation. 11:48:32 2 Q Could you turn to page 29 of your declaration. 3 4 THE REPORTER: Excuse me, Counsel. I 5 think we've lost our videographer. 11:48:33 6 MR. BERG: Let's go ahead and wait for her 7 then. 8 In fact, we've been going for a while, so 9 Mr. Adams and Kevin, do you guys want to just take a break right now off the record? 11:48:33 10 THE WITNESS: Yeah. That sounds like a 11 good idea. 12 MR. BERG: Let's just take 10 minutes, and 13 we'll come back on the record. Hopefully, they'll 14 15 have it resolved. 11:48:33 16 THE WITNESS: Okay. (Recess taken.) 17 18 THE VIDEOGRAPHER: We're going back on the 19 record. The time is 1:03 p.m. Mountain Time. And 20 this is the beginning of Media Unit 3. Please 01:03:05 continue. 21 22 BY MR. BERG: 23 0 Welcome back, Mr. Adams. 24 А Thank you. 25 Q During the break, did you talk with your 01:03:15 Page 82

1	counsel at all?	01:03:17
2	A Yes, I did briefly, to check in on what	
3	was happening.	
4	Q Did you discuss the substance of your	
5	testimony at all?	01:03:27
б	A No.	
7	Q So I think when we broke last I had just	
8	asked you to turn to page 29 of the of your	
9	declaration of your '887 declaration.	
10	Would you mind turning there?	01:03:42
11	A Yes. I actually have it at page 29 right	
12	now.	
13	Q Okay. So now, I want to talk about	
14	paragraph 64, but I would like to do it in the	
15	context of the snip you have up above, which I	01:04:02
16	believe comes from the '044 provisional.	
17	Do you see at the top of that snip there	
18	is a it appears to be a URL that starts with	
19	"rtcp://"?	
20	A Yes, I do.	01:04:17
21	Q Okay. Do you agree with me that that is a	
22	URL path that can be formatted in the play script?	
23	A Yes, I believe that's correct.	
24	Q And then in paragraph 64 you walk through	
25	a lot of these aspects that are in the play script,	01:04:39
		Page 83

1	and you reference that URL shown above, and you	01:04:42
2	point out there it identifies a server type for	
3	serving the requested media, a reservation ID, NRP,	
4	an order ID, a presentation ID, and a media ID.	
5	Do you see that in paragraph 64?	01:04:58
6	A Yes. That's correct.	
7	Q So, coming up here to the URL at the top	
8	of the page, can you point out to me where in this	
9	URL is identified the server type?	
10	MR. SPRENGER: Objection to form.	01:05:21
11	THE WITNESS: I believe here we say where	
12	the server type would be a stream representing the	
13	type of server. So we have after the slash	
14	slash, we have a field that says "server type."	
15	BY MR. BERG:	01:05:50
16	Q Okay. And so then, in an actual URL that	
17	was in a play script, "server type" would be	
18	replaced with some stream representing the type of	
19	server the media requires; is that correct?	
20	A I believe that's the way we should read	01:06:05
21	this, yes.	
22	Q And then in this URL, is there also a	
23	location where the reservation ID would be put in?	
24	A Yes. I believe that that's part of this	
25	first string, server type, dot, reservation ID.	01:06:27
		Page 84

1	Q Okay. And then, after that there is a dot	01:06:32
		<u>51-00-52</u>
2	NRP name. So do you understand that that would be	
3	the name of the NRP or, in other words, an	
4	identifier of a device/server that can facilitate	
5	streaming of media?	01:06:49
6	A Yes. Facilitate. Not actually stream,	
7	but facilitate, yes.	
8	Q Then we have a ".net" and then a slash and	
9	a stream that says "order ID."	
10	So is that where you'd put the order ID	01:07:12
11	for the requested media?	
12	A Yes, I believe that is.	
13	Q And we have another slash, and it says	
14	"presentation ID."	
15	And is that where you would put an	01:07:26
16	identifier, the presentation associated with the	
17	requested media?	
18	A Yes. That's correct.	
19	Q Okay. Then last we have "/media ID."	
20	Is that where you would put an identifier	01:07:38
21	of the specific or individual piece of content	
22	making up a presentation?	
23	MR. SPRENGER: Objection to form.	
24	THE WITNESS: It says here the media ID	
25	represents a unique identifier the unique	01:07:54
		Page 85

1	identifier for an individual piece of content that's	01:07:57
2	part of a presentation.	
3	BY MR. BERG:	
4	Q Perfect.	
5	And so then a couple other things that we	01:08:07
6	didn't cover in this URL. So there is this, at the	
7	very beginning, RTCP.	
8	Do you know what that RTCP is?	
9	A If I recall correctly, it stands for	
10	realtime control protocol.	01:08:31
11	Q And why would RTCP be at the beginning of	
12	this URL?	
13	A Because we're making a request to a	
14	resource, an Internet or an IP resource here.	
15	Behind the string is essentially identifying a	01:08:54
16	resource. And we're using the realtime control	
17	protocol to make that request. So it describes the	
18	type of protocol used to talk to this particular	
19	server.	
20	Q And what is the realtime control protocol?	01:09:16
21	A It was quite well known at the time. I	
22	haven't specifically looked at it as part of this	
23	case, but to my memory, it described a particular	
24	protocol that was designed to start the streaming of	
25	RTP.	01:09:46
		Page 86

1	So it was associated with RTP, which is	01:09:47
2	realtime protocol. And this was the control	
3	protocol that's associated with RTP.	
4	Q Were there other protocols that you were	
5	familiar with that at the time, in addition to	01:10:03
6	realtime control protocol?	
7	A Yes. There are many protocols in the art	
8	that I was familiar with.	
9	Q Can you give me an example of one other	
10	protocol in the art at this time that was used in	01:10:23
11	connection with media streaming?	
12	A The one that jumps to mind is RTSP,	
13	realtime streaming protocol.	
14	Q And when would you use RTSP, for example,	
15	instead of RTCP?	01:10:46
16	A I believe that RTCP is the control	
17	protocol. And it could be used to establish	
18	sessions that would then use either RTP or RTSP to	
19	stream the actual media, to my recollection.	
20	Q So, in addition to RTCP and RTSP, do you	01:11:07
21	recall any other protocols that were used at this	
22	time for facilitating the streaming of media?	
23	MR. SPRENGER: Objection to form.	
24	THE WITNESS: Not offhand, no.	
25	Although, let me add to that. Certainly	01:11:29
		Page 87

1	people were using UDP at the time.	01:11:31
2	BY MR. BERG:	-
3	Q And what was UDP?	
	~	
4	A It's a datagram protocol, an	
5	unacknowledged datagram protocol, which is	01:11:41
6	fundamental to TCP IP. Most things use UDP at the	
7	base level.	
8	Q At this time was there a specific protocol	
9	associated with, for example, streaming Apple	
10	QuickTime's files?	01:11:59
11	A There may have been, but I do not recall.	
12	Q How about Windows Media files?	
13	A Again, I'm not sure. I think when we look	
14	at things like Apple QuickTime and Windows Media,	
15	the underlying protocols, there was some	01:12:28
16	flexibility. Those players defined the file type of	
17	the media itself, but I think it was possible to use	
18	different control protocols and streaming protocols	
19	underlying. Again, I'm just recalling the	
20	technology as it was in the time period 20 years	01:12:58
21	ago, so I'm not sure of that.	
22	Q And then the one other piece of this URL	
23	that we didn't talk about is right in the middle of	
24	this ".net."	
25	What would why was ".net" included in	01:13:21
		Page 88

1 this URL, or typically why would ".net" be included 01:13:26 2 in a URL like this? Well, ".net," we usually associate that 3 А with an abbreviation for "network." But I think 4 5 this would work equally well if it was ".com" or 01:13:45 ".org" or any other extension. It's -- it was 6 7 chosen by the inventors here as a convenient string. 8 It doesn't limit what they're trying to do here, I don't think. 9 And then just one other thing to clarify. 01:14:11 10 0 So we talked about the server type and what that 11 12 was. Well, actually, I want to ask about what 13 is in this snip right after the part that you have 14 15 underlined in red. It says "The portion of the URL 01:14:31 16 between the double slash and the first slash is 17 referred to as the host name by Internet standard DNS definition." 18 19 Can you explain to me a little bit about 20 what you understand by "host name" here? 01:14:46 MR. SPRENGER: Objection to form. 21 22 THE WITNESS: Okay. In a client server 23 system like the one we have here, normally the host name is -- refers to the name of the server, if you 24 25 like, the server that's hosting the service. 01:15:08 Page 89

1	BY MR. BERG:	01:15:17
2	Q Okay. And that's used to find an IP	
3	address of a particular host so that it actually can	
4	be formed?	
		01 - 15 - 00
5	MR. SPRENGER: Objection to form.	01:15:28
6	THE WITNESS: Basically, the host name is	
7	resolved by DNS, the domain name service, to provide	
8	an IP address, yes.	
9	BY MR. BERG:	
10	Q Let's shift gears a little bit and go down	01:15:47
11	to paragraph 83 of your declaration.	
12	A Which number again?	
13	Q Paragraph 83.	
14	A 83. Thank you.	
15	Okay. I am on page 83 I mean	01:16:11
16	paragraph 83.	
17	Q Okay. So paragraph 83, you talk about an	
18	applicant's response to a nonfinal office action.	
19	And you note that they distinguished the claimed	
20	invention over the prior art by adding the phrase	01:16:31
21	"via a communication network" into the claim	
22	language.	
23	Do you see that?	
24	A Yes. That's the part highlighted in	
25	yellow, uh-huh, that I've referenced, yes.	01:16:43
		Page 90

Q And then in the snip below, you have what appears to be an excerpt from the prosecution history regarding claim 1, correct?	01:16:50
history regarding claim 1, correct?	
A That's correct.	
Q Do you know if this claim 1 is the subject	01:17:06
of the '887 IPR?	
A I would have to check to see whether it is	
or not.	
Q Let's take a look at that. Going to	
paragraph 2 of your declaration, I think you list	01:17:40
all the claims that are challenged.	
A One second. Paragraph 2.	
Yes, that's correct.	
Q Is claim 1 one of those claims?	
A No. Claim 1 does not is not listed	01:18:07
here.	
Q Going back to paragraph 83, are you aware	
whether similar changes were made in the	
prosecution or to the claims that are challenged	
here?	01:18:26
MR. SPRENGER: Objection to form.	
THE WITNESS: No, I'm not aware of that.	
BY MR. BERG:	
Q Okay. So let's now go to the portion	
discussing the Madison reference, which starts in	01:18:56
	<pre>here. Q Going back to paragraph 83, are you aware whether similar changes were made in the prosecution or to the claims that are challenged here? MR. SPRENGER: Objection to form. THE WITNESS: No, I'm not aware of that. BY MR. BERG: Q Okay. So let's now go to the portion</pre>

1 paragraph 113 of your declaration. 01:18:59 2 113. Yes, I've got that in front of me А 3 now. 4 (Exhibit 11 marked for identification.) BY MR. BERG: 5 01:19:22 б Okay. And I'm going to go ahead and 0 7 introduce an exhibit. 8 Okay. So I've just introduced Exhibit 11. 9 Just let me know when you have that. Okay. 01:19:52 10 А 11 Yes. Just opening it up now. Okay. Great. 12 Q And, once you have that open, could you 13 just tell me what Exhibit 11 is? 14 15 Yes. It's a United States patent 01:20:42 А 16 application publication, and it is Publication No. U.S. 2004/0083273. 17 18 0 Okay. Great. 19 I'll just note for the record that this is 20 marked as Hulu Exhibit 1051 in both the '360 and the 01:21:14 '887 proceedings. 21 Does that sound right to you, Mr. Adams? 22 23 Α Yes. I can see that they're marked on 24 each page of this document. And I do believe the 25 same exhibit number is -- as you say, refers to both 01:21:35 Page 92

1	the '360 and '887.	01:21:39
2	Q Great.	
3	I'll mark one more exhibit here.	
4	While we're waiting for this exhibit,	
5	regarding Exhibit 11, have you reviewed this	01:22:20
6	document before?	
7	A Yes, I have.	
8	(Exhibit 12 marked for identification.)	
9	BY MR. BERG:	
10	Q Okay. I've introduced Exhibit 12. Just	01:22:32
11	let me know when you have that open.	
12	A I have it open now.	
13	Q Okay. So what is Exhibit 12?	
14	A This is a United States patent application	
15	publication. Oh, hold on a second. I think I'm	01:23:22
16	looking at the same one.	
17	Q No. They're close.	
18	A Yeah. They are, aren't they? Yes, they	
19	are. Exactly. So right, yes. But they are	
20	different.	01:23:48
21	So this is Exhibit 1007. So this is U.S.	
22	2004-0015703.	
23	Q Okay. And have you seen this reference	
24	before?	
25	A Yes, I have.	01:24:11
		Page 93

1	Q And I'll just note for the record this is	01:24:12
2	Hulu Exhibit 1007 in the '360 IPR proceeding. I do	
3	not believe this is an exhibit in the '887 IPR	
4	proceeding.	
5	Does that sound right to you, Mr. Adams?	01:24:26
6	A I believe so, yes.	
7	MR. SPRENGER: Counsel, just to lodge an	
8	objection, to note for the record that this	
9	particular Madison reference is beyond the scope of	
10	Mr. Adams' reply declaration I'm sorry, beyond	01:24:40
11	the scope of his declaration in the '887 case.	
12	MR. BERG: Okay. Thank you. Noted,	
13	Counsel.	
14	Sorry, Counsel, just to clarify, but your	
15	objection is only for the '887, not also for the	01:25:00
16	'360?	
17	MR. SPRENGER: Do you plan to question	
18	Mr. Adams on the '360 declaration as well?	
19	MR. BERG: Yeah. I mean, that's part of	
20	today's deposition.	01:25:15
21	THE WITNESS: So, for now, I'll just keep	
22	the objection for '887, as the exhibit being beyond	
23	the scope of the '887 declaration.	
24	BY MR. BERG:	
25	Q Okay. So, just to cover our bases on	01:25:32
		Page 94

1	this, can you open your '360 declaration, please,	01:25:43
2	Mr. Adams, which I believe we marked as Exhibit 4?	
3	I'll double-check that.	
4	A Yes. I have that as Exhibit 4. And I do	
5	have that one open.	01:26:09
б	Q In the context of Exhibit 4, can you	
7	please go to section 3, which is the list of	
8	materials that you considered and relied on?	
9	A Yeah. I'm looking at that list right now.	
10	Q And do you see that this is listed in your	01:26:32
11	table there as Document 1007, this Madison reference	
12	that we've just pulled up?	
13	A Yes, I do.	
14	Q Okay. So let's go back to your '887	
15	declaration now and to the two different Madison	01:26:51
16	references. I just want to pull these up so we can	
17	just avoid confusion. As you know, they're very	
18	similar, and I just want to avoid confusion.	
19	So the first one, which I marked as	
20	Exhibit 11, which is the Hulu Exhibit 1051, will you	01:27:12
21	understand if I refer to this as Madison 273?	
22	A 273. Yes, I will.	
23	Q Okay. And the other Madison exhibit,	
24	which is Hulu Exhibit 1007, and which we've marked	
25	today as Exhibit 12, will you understand if I refer	01:27:44
		Page 95

1	to that reference as Madison 703?	01:27:47
		01.27.17
2	A Yes, I will.	
3	Q Great. Okay.	
4	So for now you can set aside Exhibit 1007,	
5	and we'll focus on Exhibit 1051 and your discussion	01:28:04
6	of Exhibit 1051 excuse me. Let me strike that.	
7	For now, you can set aside Madison '703,	
8	and we'll focus on Madison '273 and your testimony	
9	regarding Madison '273 in your '887 declaration.	
10	Okay. So referring now to Madison 273,	01:28:52
11	can you just describe a little bit about your	
12	understanding of this reference?	
13	A Okay. I'm going to refer back to the	
14	in my report	
15	Q Absolutely.	01:29:16
16	A at 113, paragraph 113.	
17	So it's a method and system for managing	
18	digital content, including streaming media, and was	
19	filed on January 18, 2002.	
20	Q Now, Madison talks about playlists,	01:29:39
21	correct?	
22	A I believe	
23	MR. SPRENGER: Objection to form.	
24	THE WITNESS: I believe that it does, yes.	
25	At 116 I note "The client is given a playlist URL	01:29:55
		Page 96

1	for publishing on its website."	01:30:01
2	So yes, there is a notion of a playlist in	
3	Madison '273.	
4	BY MR. BERG:	
5	Q And so what's your understanding of what a	01:30:09
б	playlist is in the context of Madison 273?	
7	A Well, I'm just being sure that I've got	
8	this straight because it talks about a link to a	
9	playlist that the person can publish on a website,	
10	the client can publish on a website.	01:30:51
11	The actual form of the playlist is	
12	generated by means of the make playlist ASP program.	
13	And that's termed here a playlist redirector file.	
14	Q In paragraph 117 of your report you	
15	discuss how the client selects and orders stream	01:31:36
16	files for inclusion in the playlist.	
17	So is it fair to say that the playlist in	
18	Madison can include multiple files?	
19	MR. SPRENGER: Objection to form.	
20	THE WITNESS: Yes. I believe that's	01:31:53
21	correct.	
22	BY MR. BERG:	
23	Q Now, in paragraph 117, you refer to that	
24	the URLs in these playlists can include the stream	
25	ID.	01:32:23
		Page 97

1 Do you see that in paragraph 116? 01:32:25 2 Yes. Specifically, the client is given a Α playlist URL for publishing on its website, as we 3 mentioned before. And the URL including -- so I 4 5 assume that means it may include or does include a 01:33:01 б stream ID. 7 0 Are you aware of any disclosure in Madison 8 that restricts the stream ID to identifying a full 9 media asset as opposed to part of a media asset? MR. SPRENGER: Objection to form. 01:33:27 10 THE WITNESS: I would say that since 11 12 Madison only describes full media assets, then I would take the stream ID to refer to the full media 13 14 asset. 15 BY MR. BERG: 01:33:50 16 0 When you say Madison only describes full 17 media assets, where would you point to in Madison as illustrating that it only describes full media 18 19 assets? Sorry. I should clarify. 20 Where in Madison '273 would you point to 01:34:10 to illustrate that it only includes full media 21 22 assets? 23 Α Right. Well, when we read through Madison 24 '273, we're -- even in the abstract -- starting from 25 the abstract, there's a reference here that says 01:34:37 Page 98

1 it's a "Method and System for uploading, managing 01:34:42 2 and delivering digital content, including Streaming 3 media." 4 And then it goes on to talk about the content. And then, as we get into Madison, we talk 01:35:00 5 about requesting or publishing media. You know, 6 7 there's a way of -- Madison has essentially a way of 8 sharing media by this mechanism from the content, 9 whoever creates the content, to an audience of people that can subscribe to the content. 01:35:32 10 And, in that discussion, we don't have any 11 12 definition of the media being anything other than a particular -- what I would call a particular asset, 13 so whether that's a song or a video or whatever. 14 15 So, conceptually, I just repeat my 01:35:56 16 previous observation that there's no disclosure in 17 Madison of dividing -- subdividing content at all. So is there any disclosure in Madison --18 0 well, let me rephrase it. 19 20 There is no disclosure in Madison of media 01:36:19 21 being a single song either, correct? 22 Α No. It could be more than one song. 23 Absolutely. 24 0 There's is no disclosure in Madison of 25 media being a single movie, correct? 01:36:36 Page 99

1	A Basically, what Madison describes is	01:36:42
2	somebody who has created some kind of media content,	
3	and they publish it via this mechanism described	
4	here. And there is no mention of anything that	
5	would lead you to believe that the thing that is the	01:37:04
6	media is published, you know, in its whole form.	
7	There is no mention of anything other than the	
8	publishing of the media.	
9	So, as such, I do not see any reason to	
10	see that anything other than the media itself is	01:37:24
11	being published when they talk about it in that way.	
12	Q Is a five-minute clip of a movie still	
13	considered media?	
14	A Can you point me to a specific example of	
15	that, or is that a general question?	01:37:42
16	Q Well, it's just a general question.	
17	A If it's a you know, a shorter period	
18	of a short part, if you like, or a I mean,	
19	this is defined here by what's published. I mean,	
20	if the whoever is publishing this media has	01:38:16
21	taken, you know, five minutes from a movie and is	
22	allowed to publish that, if they have rights and	
23	they're not violating copyright, then it's possible	
24	that they could publish just five minutes of a	
25	movie, yes.	01:38:42
		Page 100

1	Q Okay. So, in other words	01:38:44
2	A Yeah. That would be what they publish,	
3	yeah.	
4	Q So, in other words, Madison is just	
5	agnostic as to whether the media is a five-minute	01:38:57
6	clip or an entire movie or multiple movies. It	
7	doesn't specify in that, correct?	
8	MR. SPRENGER: Objection to form.	
9	THE WITNESS: I don't I wouldn't	
10	characterize it as agnostic, no. I would say that	01:39:14
11	Madison is quite clear that for example, in	
12	paragraph 102, the content file being uploaded is	
13	placed on the streaming media server.	
14	So they always talk about a content file.	
15	That's always the entity. And, no, they don't	01:39:34
16	specify what the content file is, but it seems to be	
17	always, you know, a file, so the whole of the file.	
18	BY MR. BERG:	
19	Q Right. Okay. So it's a single file, but	
20	the file could be a short clip. It could be	01:39:57
21	multiple media assets stitched together in a single	
22	file, or it could just be a single media asset; is	
23	that fair?	
24	A No. I think that's pure speculation	
25	because there is nothing about that in Madison.	01:40:11
		Page 101

1	Q Right. There is nothing about any of	01:40:14
2	those three scenarios in Madison, correct?	
3	A Well, I think, if we read Madison, we'd	
4	see that they talk about the content file, and in	
5	the absence of any other direction or in the	01:40:26
6	specification, I think the content file is just the	
7	media item itself.	
8	Q Okay. So can you point me to a place in	
9	Madison that shows that that's the case?	
10	MR. SPRENGER: Objection to form.	01:40:44
11	THE WITNESS: Well, I already just pointed	
12	you to paragraph 102. The content file being	
13	uploaded is placed on the streaming media server.	
14	We just talk about the content file. We don't make	
15	any reference to anything other than a file, and the	01:41:01
16	file being the whole thing here, the file being the	
17	whole media.	
18	BY MR. BERG:	
19	Q Okay. So I'm just I think we're on the	
20	same page here, but I want to make sure.	01:41:17
21	Okay. So you told me a few minutes ago	
22	that a file could be a client could provide a	
23	file, for instance, that's a five-minute clip of a	
24	movie, correct?	
25	A I agreed with you that Madison does not	01:41:31
		Page 102

1	specify anywhere in it what's in the file. And a	01:41:34
2	content provider, if they had the you know, if	
3	they had the rights and everything, then yes, they	
4	could take a five-minute section of a movie and make	
5	that upload that as a single file.	01:41:57
6	Q And there would be nothing there is	
7	nothing in Madison to prohibit a content provider	
8	from doing that?	
9	A There is nothing to prohibit it, but	
10	equally, Madison does not disclose that.	01:42:12
11	Q Okay. And a content provider could also	
12	have a file that was a complete media asset, for	
13	example, a complete movie, correct?	
14	A I think that's actually the most likely	
15	use of the Madison system from the description, that	01:42:32
16	the content file is actually the complete media	
17	asset, that the that they want to share via the	
18	Madison system.	
19	Q Okay. But and so, at the very least,	
20	Madison doesn't have any teaching that would	01:42:54
21	prohibit that use case, correct?	
22	MR. SPRENGER: Objection to form.	
23	THE WITNESS: Which use case?	
24	BY MR. BERG:	
25	Q The file being a complete movie, for	01:43:05
		Page 103

1	instance.	01:43:08
2	A No, I don't believe so. In fact, as I	
3	said, that's the most likely use in my reading of	
4	the patent is that, as media files or content files	
5	are uploaded, each one of them is the complete media	01:43:26
6	that the client wants to share, whatever that is.	
7	But it's the complete extent of what is being	
8	shared.	
9	Q Okay. And then, taking a last example, if	
10	a client chose to create a file that had, say,	01:43:50
11	multiple media assets stitched together in a single	
12	file, for example, multiple songs into a single	
13	file, would there be anything in Madison that would	
14	prohibit the client from uploading that file as the	
15	media?	01:44:12
16	MR. SPRENGER: Objection to form.	
17	THE WITNESS: Well, in that case, it would	
18	still be a single file. There would be nothing in	
19	the file itself that would show that it was three	
20	songs rather than a single song.	01:44:32
21	And so, as far as the system is concerned,	
22	the content file is just a piece of media that	
23	starts and then finishes. And so that's the extent	
24	of the description that Madison gives.	
25		
		Page 104

1	BY MR. BERG:	01:44:55
2	Q Now, between those three options and I	
3	understand that your opinion is that the that one	
4	of the options is the most likely. But, between	
5	those three options, does Madison have any explicit	01:45:07
6	disclosures that makes any of those options more	
7	likely than any other option?	
8	A I think if we if we think about what	
9	the invention that Madison discloses here is doing,	
10	then we're sharing these different content files.	01:45:28
11	And each one represents a piece of content that a	
12	user might be interested in.	
13	So I think it is definitely more likely	
14	than not that each content file contains a single	
15	piece of media, whether it be a single song or a	01:45:55
16	single piece of video content. That would be, you	
17	know, my opinion as to what Madison has intended to	
18	do, reading the description.	
19	Q Is there an explicit disclosure in Madison	
20	you can point me to?	01:46:19
21	A I can't point you to one. I doubt there	
22	is one because I don't think Madison considers it.	
23	Q In paragraph 117, at the end on page 56 of	
24	your report	
25	A Paragraph 117. Yes, I'm looking at that.	01:47:00
		Page 105

1	Q At the end of that paragraph you say "In	01:47:06
2	this way, the playlist details are stored on the CM	
3	database and are accessible by the playlist server	
4	to dynamically generate playlist redirector files."	
5	What do you mean here in paragraph 117	01:47:19
6	when you say "dynamically generate playlist	
7	redirector files"? What does that mean?	
8	A Yeah. I think that is explained in the	
9	next paragraph where the URL playlist URL	
10	actually refers to a program, which is a	01:47:39
11	"makeplaylist.asp" program, active server page	
12	program. And that program actually generates the	
13	playlist as a redirector file.	
14	Q So, after the request is made, the	
15	playlist is generated. And that's what's meant by	01:48:07
16	dynamically generating it; is that correct?	
17	A No, not after it's made.	
18	Q Sorry. After it's requested?	
19	A Yes. When the end user selects the URL	
20	this is the playlist URL at that point, the	01:48:24
21	system executes a "makeplaylist" program to dynamic	
22	play and dynamically generate a playlist redirector	
23	file.	
24	Q Now, towards the end of Madison and in	
25	this section we're talking about with the dynamic	01:49:08
		Page 106

1	playlist redirector file creation well, let's	01:49:11
2	just walk through kind of this process.	
3	So, in paragraph 106 and 107 actually,	
4	just paragraph 107. Can you explain to me what is	
5	shown in paragraph 107 of Madison '273?	01:49:38
6	MR. SPRENGER: Objection to form.	
7	THE WITNESS: I think you said	
8	paragraph 107?	
9	BY MR. BERG:	
10	Q Yes, that's correct.	01:49:53
11	A Okay. Paragraph 107. Paragraph 107 is	
12	simply a piece of a little fragment of protocol	
13	that what it describes is that there's a	
14	reference to a playlist server. The name of the	
15	playlist server apparently is	01:50:40
16	"playlistserver.company.com," and one of the	
17	arguments given to that server is a	
18	"makeplaylist.asp" reference. That's the active	
19	server page that's going to be invoked.	
20	And, after the question mark in this	01:51:02
21	string, we're passing along an ID, in this case,	
22	"12345."	
23	Q And then, after the user clicks on this	
24	link, then the "makeplaylist" program functions	
25	to well, basically to dynamically generate the	01:51:24
		Page 107

1 playlist redirector file that we've been discussing, 01:51:27 2 right? And that's in paragraph 109? MR. SPRENGER: Objection to form. 3 4 THE WITNESS: The "makeplaylist" program 5 functions to cause the playlist server to make a 01:51:40 call to the CM database -- that's content management 6 7 to database -- content manager database -- to 8 retrieve the data necessary to dynamically generate 9 the playlist redirector file. And it goes on to provide a little bit 01:52:00 10 more detail about how that's done. 11 BY MR. BERG: 12 And then at the bottom of paragraph 109, 13 Q it describes -- Madison '273 describes creating 14 15 these URLs that will be included in the playlist, 01:52:15 16 correct? 17 А Can you point me exactly to which -- I want to make sure I'm referring to the right --18 19 Yeah. So I'm looking -- in paragraph 109, 0 20 if you're on page 39 of 46, just looking at the 01:52:43 bottom right-hand corner, there's a sentence that 21 22 starts right at the very end of that page "Using the 23 URL." 24 And I'm asking about that sentence 25 starting there, and then through the end of 01:52:56 Page 108
1	paragraph 109, which goes over to the next page.	01:52:59
		01.02.00
2	A Okay. "Using the URL prefix, the	
3	hostname, and stream filename, the 'makeplaylist'	
4	dynamically generates a URL for each stream file."	
5	Yep, I see that.	01:53:21
6	Q And an example of one of those URLs is	
7	down there between paragraphs 109 and 110, correct?	
8	A Yes, it is.	
9	Q And then paragraph 110 discusses	
10	generating a redirector file, which is then going to	01:53:44
11	be passed to the media player stored on the user's	
12	computer, correct?	
13	A Yes. It says that at the beginning of	
14	paragraph 110, yes.	
15	Q Okay. And then it provides an example of	01:54:05
16	a redirector files for use with Windows Media	
17	Technologies there below, right, in the form of an	
18	ASX file?	
19	MR. SPRENGER: Objection to form.	
20	THE WITNESS: Yeah, it does. We should	01:54:21
21	note it's syntactically flawed, but I think we get	
22	the gist of what they're suggesting here.	
23	BY MR. BERG:	
24	Q Yeah. So that's what I wanted to ask you	
25	about, actually, or just address.	01:54:35
		Page 109

1	So, looking at that ASX file that's in	01:54:38
2	paragraph 110, and then going to the Madison '703	
3	reference.	
4	A Are we still talking about '887? Because	
5	I believe that	01:54:58
6	Q Yeah. We're still talking about '887.	
7	A So I think the other Madison reference	
8	is I think we agreed it's out of the scope.	
9	MR. BERG: Yeah. Your counsel made an	
10	objection to that effect.	01:55:13
11	THE WITNESS: Yeah.	
12	BY MR. BERG:	
13	Q I'm still asking you to go there, though.	
14	A Okay. That's fine. That's fine. I just	
15	wanted to	01:55:20
16	Q Yeah, no problem.	
17	A So we're all on the same page here.	
18	Q Yeah.	
19	A I'm going to you know what I'm going to	
20	do? I'm going to download this one and open it	01:55:29
21	because otherwise I'll just lose this reference to	
22	it, knowing how the system works. So just give me a	
23	minute to do that.	
24	That was at paragraph 110, wasn't it? Got	
25	that. And now I'm going to switch over to the next	01:56:06
		Page 110

1	file, which is Madison '703. Yeah.	01:56:09
2	Q But do you recall that we discussed the	
3	Madison '703 reference at length during your	
4	previous deposition?	
5	MR. SPRENGER: Objection. The Madison	01:56:21
б	'703 reference is beyond the scope of Mr. Adams'	
7	declaration and the '887 patent.	
8	You can answer.	
9	BY MR. BERG:	
10	Q You can go ahead and answer, Mr. Adams.	01:56:34
11	A Yeah, I'm happy to answer the question. I	
12	do recall that we looked at '703 on October 15th.	
13	Q And do you recall that we looked at the	
14	ASX files there below paragraph 90 and also below	
15	paragraph 95?	01:56:54
16	A Let me just see if I can refresh my memory	
17	on that.	
18	Yeah. I think so.	
19	Q And, in fact, when we were going through	
20	the these ASX files, we went to another exhibit,	01:57:13
21	the "All About ASX Files" exhibit.	
22	Do you recall that?	
23	A Yes, I do.	
24	Q And I think, as we were going through that	
25	"All about ASX Files" exhibit and comparing that to	01:57:28
		Page 111

1	the ASX files here in Madison, you identified this	01:57:35
2	syntax here that you just referenced in Madison	
3	'273; is that correct?	
4	A I think so. Yes, I think so.	
5	Q So I guess my question is, looking at the	01:57:50
б	ASX files in Madison '703 and looking at the ASX	
7	file in Madison '273, do you see any significant	
8	differences between those two examples of ASX files?	
9	A So we're looking just to be clear,	
10	we're comparing what's cited in or what's	01:58:15
11	described in paragraph 90 of '703 Madison '703	
12	with and I'm going to have to click over to it	
13	paragraph 110 of Madison. Which one is this, '273?	
14	Q '273. Yeah.	
15	A Yeah. So what's in 110, they are	01:58:42
16	different.	
17	Q And can you describe some of those	
18	differences?	
19	A Okay. So let's start with Madison '273.	
20	Because that's the the shorter version.	01:59:02
21	At 110 of Madison '273, we have a	
22	reference, an "HREF" to "mediaserver.company.com/	
23	stream" and then a number ".ASF," ASF being a	
24	server a file name format that's used by Windows	
25	Media.	01:59:37
		Page 112

1	And then, if I flip back to paragraph 90	01:59:41
2	of Madison '703, we have essentially, the first	
3	part of it is the same, but we have some arguments	
4	that are passed after the question mark. And those	
5	arguments appear to be an ID, which is a number, a	02:00:02
б	ticket, which is an alphanumeric string, a user ID,	
7	which is an alphanumeric string.	
8	So the difference is in the additional	
9	arguments that are being, if you like, generated in	
10	this file.	02:00:29
11	Q How, if at all, would those additional	
12	arguments affect how the ASX files operate in	
13	Madison '703 compared to Madison '273?	
14	MR. SPRENGER: Objection to form.	
15	THE WITNESS: It's difficult to say	02:00:51
16	without knowing what's consuming them. Obviously,	
17	they could be used because they're passing	
18	information. For example, the ID is being passed.	
19	But this paragraph here does not describe how	
20	they're used.	02:01:17
21	BY MR. BERG:	
22	Q So turning back to Madison '273	
23	A Yeah.	
24	Q what is your understanding of how	
25	Madison is saying that this ASX file in	02:01:32
		Page 113

1	paragraph 110 is used?	02:01:35
2	A I believe that the media player will	
3	consume this ASX file. And it will, first of all,	
4	make a call, if you like, a reference to the first	
5	stream, "Stream1.ASF," and well, again, I just	02:02:03
6	want to note there's a syntactic error here, but if	
7	we ignore that, I think the intent here is to play	
8	Stream 1, Stream 2, and Stream 3.	
9	Actually, unfortunately what Madison said	
10	here is play Stream 1, and if you can't get it, play	02:02:26
11	Stream 2, and if you can't get it, Stream 3. So	
12	it's using another functionality.	
13	But, given that that doesn't really make	
14	sense, I'm going to ignore the syntactic error in	
15	this file and assume that what Madison is	02:02:43
16	illustrating here is you know, reading it in	
17	context of the words around it, is that it's going	
18	to play Stream 1, Stream 2, and Stream 3 in	
19	sequence.	
20	Q And, as a person of skill in the art,	02:03:01
21	would you have, you know, obviously, relying on	
22	appropriate resources such as Microsoft resources,	
23	been able to rewrite this ASX file so that it	
24	operated as intended by Madison?	
25	MR. SPRENGER: Objection to form.	02:03:22
		Page 114

1	THE WITNESS: I think what you're saying	02:03:24
2	is could I fix this syntactic error?	
3	BY MR. BERG:	
4	Q Yeah.	
5	A Yes, I could.	02:03:30
б	Q Would that be difficult to do?	
7	A No, not particularly. Once you recognize	
8	there's an error, if you implement it, Madison and	
9	the redirector file was generated in this form, then	
10	it wouldn't work. So a person of ordinary skill in	02:03:48
11	the art would doubtless recognize the flaw.	
12	And then, once you've recognized the	
13	syntactical error, it's quite straightforward, I	
14	would say, for a person of ordinary skill in the art	
15	to be able to rectify it.	02:04:11
16	Q So I have a couple other questions I'd	
17	like to ask you in the context of Madison '703.	
18	So let's go to paragraph 152 of your '887	
19	declaration.	
20	A Paragraph 152. Yes.	02:04:52
21	Q Could you just read to yourself paragraph	
22	152 and 153, please.	
23	A Yes, I've read those.	
24	Q Okay. So I just want to Madison uses a	
25	couple of different terms, and I just want to make	02:05:17
		Page 115

1 sure we're in agreement on how those terms are used. 02:05:19 2 So, when Madison talks about clients, do you understand that clients are content providers or 3 4 maybe content providers -- they're people or 5 entities, I guess, that are uploading content to be 02:05:33 б consumed? 7 MR. SPRENGER: Objection. Madison '703 is 8 beyond the scope of Mr. Adams' '887 declaration. 9 MR. BERG: Counsel, I certainly meant to refer to Madison '273. I apologize if I referred to 02:05:52 10 Madison '703. 11 12 THE WITNESS: Okay. Yeah. I was actually looking at -- yeah, looking at this and -- so, yeah, 13 absolutely. This -- because in this report, 14 15 paragraph 152 and 153 that you've pointed me to, 02:06:09 16 yeah, I'm talking about Madison '273. BY MR. BERG: 17 I apologize. Looking back at the 18 0 19 transcript here, I see I did reference Madison '703. 20 So let me just restate my question in the context of 02:06:22 Madison '273. 21 22 Α Okay. 23 0 So Madison '273 uses a couple of different 24 terms that I want to make sure we're in agreement on 02:06:36 25 how those terms are used. Page 116

1	So, in the when Madison '273 talks	02:06:38
2	about clients, do you understand that clients are	
3	content providers or at least entities that are	
4	uploading content for consumption?	
5	A Yes, I do.	02:06:55
6	Q And then, when Madison '273 talks about	
7	end users, do you understand that those are	
8	individuals who are consuming streaming media?	
9	A Yes, I believe so. I'm not sure if	
10	they're end users or just users, but yes, there's a	02:07:14
11	distinction between a client and a user that we make	
12	in Madison.	
13	Q So just looking at paragraph 20 of Madison	
14	'273	
15	A Okay.	02:07:43
16	Q the last sentence there states "In	
17	general the system 100 allow clients 102 to upload	
18	streaming media content to the system 100, manage	
19	such content, and make the content available to	
20	end-users 104 via a website on the Internet."	02:07:47
21	So at least here they're using	
22	"end-users." They may use "users" other places.	
23	I'm fine using either term.	
24	But you understand that those terms would	
25	be referring to the same type of individuals?	02:08:16
		Page 117

1 MR. SPRENGER: Objection to form. 02:08:21 2 THE WITNESS: Yeah. I'm just rereading 3 that. "Clients 102" and "end-users 104." So, 4 5 indeed, Madison is using the term "end-user" here, 02:08:37 б yes. I agree. 7 BY MR. BERG: 8 But, in your report where you use the term Q 9 "user," you're referring to the same concept, correct? 02:08:51 10 MR. SPRENGER: Objection to form. 11 BY MR. BERG: 12 For example, on paragraph 153. 13 Q Okay. I'm just going to look. 153. "Can 14 Α 15 never be shared so that other users" -- yes. Here, 02:09:02 16 by "user," I'm referring to what Madison in that 17 reference you showed me is saying is an end-user. So, yeah, I'm not making a distinction here between 18 19 "end-user" and "user" in my report. 20 0 Now, skipping down to paragraph 155. So 02:09:26 this is talking about Madison's reference to an ad 21 22 tag that can be used to place an advertisement in 23 media. 24 Do you recall Madison's disclosure on ad 02:09:48 25 tags? Page 118

1	A I do. And I believe that that as I say	02:09:51
2	here, that that particular reference is singular in	
3	the specification.	
4	Q I understand.	
5	Are you saying it's singular in that it's	02:10:11
б	"ad tag" instead of "ad tags"?	
7	A I don't see I did a quick search. I	
8	don't see "ad tags" at all. I just see "ad tag."	
9	Q Right.	
10	So, in paragraph 155, when you say "only a	02:10:31
11	singular reference to an ad tag," you're saying that	
12	there is only it only discloses "ad tag" as	
13	opposed to "ad tags." You're not saying that "ad	
14	tag" is referenced only once in Madison '273; is	
15	that correct?	02:10:47
16	A I'm not yeah. I mean, I believe it's	
17	actually referenced just checking here. I think	
18	it might be referenced a couple of times. It's in	
19	paragraph 37 of Madison. It's also in one of the	
20	figures, Figure 8d, and in paragraph 32. So those	02:11:11
21	are the only references I see to "ad tag."	
22	Q Okay. Now, in paragraph 155 of your	
23	declaration, you say it's clear that or it's	
24	clear Madison does not rely on or see advertising as	
25	particularly important.	02:11:37
		Page 119

1	Do you see that?	02:11:38
2	A Yes. I did that is my opinion, given	
3	that it's it talks about "ad tag" briefly, but it	
4	doesn't go into any further detail about	
5	advertising.	02:12:02
6	Q So are you equating importance to the	
7	system with how frequently Madison discloses "ad	
8	tag"?	
9	A No, no. Not at all. I'm equating	
10	importance to the depth and clarity and completeness	02:12:14
11	of a description of advertising which I do not see	
12	in Madison.	
13	Q I understand.	
14	So you're not saying that advertising	
15	wouldn't be important to implementing the system	02:12:37
16	described in Madison in the real world. You're	
17	saying, in the disclosure of Madison, it occupies	
18	relatively little space?	
19	A I would rephrase that and say what I said	
20	here, that Madison doesn't rely on nor does it see	02:12:59
21	advertising as particularly important.	
22	Q If you were to implement Madison in the	
23	real world, would you assume that advertisements	
24	weren't important to that implementation, based on	
25	the sparse disclosure in Madison '273?	02:13:32
		Page 120

1	MR. SPRENGER: Objection to form.	02:13:36
2	THE WITNESS: Well, that's kind of a very	
3	hypothetical question. But I would just say that	
4	when I was reading Madison, I certainly was not	
5	aware or made aware by the specification that	02:13:54
6	advertising was, as I say, particularly important.	
7	BY MR. BERG:	
8	Q Now, you've applied for a number of	
9	patents, correct, Mr. Adams?	
10	A I have, yes.	02:14:16
11	Q And you have several issued patents as	
12	well, as I recall. Correct?	
13	A That's correct.	
14	Q Are there things in your patents that you	
15	describe using less detail because they would	02:14:33
16	already be familiar to a person of skill in the art?	
17	MR. SPRENGER: Objection to form.	
18	THE WITNESS: I really have no idea how to	
19	answer that question without, you know, looking at	
20	the specific patent and a specific example.	02:14:50
21	BY MR. BERG:	
22	Q Okay. Well, we might do that a little bit	
23	later. But, in the meantime, was ad insertion	
24	something that was well known to a person of skill	
25	in the art at the time of Madison?	02:15:07
		Page 121

1	A Yes, I believe it was.	02:15:10
2	Q Would you, as a person of skill in the	
3	art, have understood, based on Madison's reference	
4	to "ad tag," how to use an ad tag in the context of	
5	the invention?	02:15:21
б	A I don't know. I'd have to do some further	
7	reading and thinking about that to answer that	
8	question properly.	
9	Q Now, in paragraph 156, you draw a	
10	distinction with Wolfe by noting that, in Wolfe,	02:15:51
11	subscribers can only stream music after they are	
12	authenticated, correct?	
13	A Yes, that's correct.	
14	Q Now, Madison's compatible with having	
15	security features, correct?	02:16:21
16	MR. SPRENGER: Objection to form.	
17	THE WITNESS: I don't believe that Madison	
18	describes any security features.	
19	BY MR. BERG:	
20	Q Okay. So let's turn to paragraph 29 of	02:16:32
21	Madison '273.	
22	A Yes. It describes client accounts, yes.	
23	Q So, skipping down to kind of the middle of	
24	that paragraph, do you see there's a spot in the	
25	middle that has a parenthetical that says "e.g., in	02:17:00
		Page 122

1	kilobytes."	02:17:04
2	Do you see that?	
3	A Uh-huh. Yes, I do.	
4	Q All right. So the can you read for the	
5	record the sentence following that parenthetical?	02:17:09
6	A Yes, I can. "It is within the scope of	
7	the present invention to implement security features	
8	to maintain the integrity of the content." And then	
9	it goes on to describe a co-pending International	
10	Application" and I won't read the whole	02:17:40
11	reference.	
12	Q Fair enough.	
13	A It has to do with system and method for	
14	controlling access to content.	
15	Q Okay. And then, following that	02:17:55
16	incorporation by reference, there's another	
17	sentence.	
18	Would you mind reading that one for the	
19	record as well?	
20	MR. SPRENGER: Objection to form.	02:18:05
21	THE WITNESS: Can you	
22	BY MR. BERG:	
23	Q Yeah. Starting with "as such." Yeah, "as	
24	such."	
25	A Oh, yeah. "As such, the table includes	02:18:15
		Page 123

1	security-related information, including default	02:18:18
2	preferences indicating whether or not the content is	
3	secure (allows security), and if so, a cryptographic	
4	key used for accessing such content (default sec	
5	key) and a time for which the key will be valid	02:18:36
6	(default sec. interval)."	
7	Q Okay. Perfect.	
8	So, based on this disclosure in Madison,	
9	do you understand that Madison in fact is compatible	
10	with security features?	02:18:59
11	A Yes. There does seem to be a link here to	
12	a way of extending Madison to implement some	
13	security features, yes.	
14	Q And the there were two PCT at least	
15	two, maybe three PCT application numbers that were	02:19:23
16	incorporated by reference here.	
17	Do you see the one that is PCT/USS01/18324	
18	filed on June 6, 2001?	
19	A Yes. I was reading along with you. Yes,	
20	I do see that.	02:19:47
21	Q Now, can you flip back over to Madison	
22	'703?	
23	A '703. Oh, yes. I've got that here. Yep.	
24	Q And do you see on the cover there, there's	
25	a PCT number? Field 86.	02:20:06
		Page 124

1	A No. I can't find it. Oh, yeah. "(86)	02:20:22
2	PCT No.," yes.	
3	Q And do you see that that number matches	
4	the number incorporated and referenced in Madison	
5	' 273?	02:20:34
6	A I'm sure it does, if you're pointing it	
7	out to me, but I'll just check for the record.	
8	Yes. It appears to be the same PCT	
9	number.	
10	Q So, by this, do you understand that the	02:20:54
11	Madison '703 is incorporated into the Madison '273?	
12	A Right. So Madison '703 must have been	
13	filed earlier, I believe. But, again, I think I'll	
14	take your word for it. That would seem to be the	
15	logical conclusion.	02:21:33
16	Q And, just looking at the Madison '703	
17	reference for a minute. I know you've already	
18	testified at length about the '703 reference, so we	
19	won't spend a lot of time here. But I just want to	
20	go to paragraph 6.	02:21:52
21	A Yes. Looking at paragraph 6 of Madison	
22	'703.	
23	Q Do you see that one of the issues that	
24	Madison '703 is addressing here is deals with	
25	limiting access to streaming content by the	02:22:23
		Page 125

1	authenticating of end users?	02:22:28
2	A I'm just reading through. Yeah. Well,	
3	they say a need exists for an improved system and	
4	method for controlling access and authorizing end	
5	users.	02:23:01
6	Q And then in paragraphs 32 and 33 it talks	
7	about the authentication application for	
8	authenticating end users; is that correct?	
9	A Yes. It just looking at 32 and 33	
10	yeah. It talks about authentication, yes.	02:23:38
11	Q So then, going back to your declaration,	
12	paragraph 156	
13	A Uh-huh.	
14	Q where you say that you know, because	
15	in Wolfe, the subscribers can only stream music	02:24:00
16	after they are authenticated, you say that, "As	
17	such, the content owner, Wolfe, is a very different	
18	entity than in Madison."	
19	In view of kind of what we've just looked	
20	at, do you I guess in what ways would you still	02:24:16
21	say that the content owner in Wolfe is a very	
22	different entity than in Madison?	
23	MR. SPRENGER: Objection to form.	
24	THE WITNESS: Yeah. I would say that if	
25	we look at the beginning of paragraph 156, when we	02:24:33
		Page 126

1	look at Wolfe, it describes a system that has to	02:24:37
2	subscribe to the database. And the subscribed	
3	database has information about the subscriber, which	
4	is held in these subscriber dossiers. And I think	
5	Wolfe uses those that mechanism for, I believe,	02:25:03
6	advertising targeting of advertising.	
7	I think the difference with Madison that I	
8	see here is that it describes a system where a	
9	client can merely sign sorry, an end user can	
10	merely create an account and then immediately start	02:25:25
11	to use the system without providing any information	
12	about itself.	
13	So that, to me, is different. It seems	
14	like Madison is almost like a community sharing	
15	platform to allow clients and end users clients	02:25:50
16	to share media with end users, whereas Wolfe is	
17	something that's a more commercial system with, you	
18	know, information specific information about	
19	subscribers being necessary as part of this	
20	subscriber database.	02:26:15
21	BY MR. BERG:	
22	Q You agree in both Wolfe and Madison there	
23	is at least embodiments where subscribers can only	
24	stream media once they're authenticated, correct?	
25	MR. SPRENGER: Objection to form.	02:26:31
		Page 127

1	THE WITNESS: Yes. I do agree with that.	02:26:32
2	And I would also say that nowhere here do I say that	
3	Madison did or did not include an authentication	
4	method.	
5	BY MR. BERG:	02:26:53
6	Q Now, you just noted this kind of community	
7	sharing aspect of Madison, at least in your opinion,	
8	that there is kind of a community sharing aspect.	
9	Can you tell me a little bit more about	
10	what you mean by that?	02:27:07
11	A Yeah. Reading the patent description of	
12	Madison, it describes a number of clients. And they	
13	can upload media files to a system, and then they	
14	can share links to those media files as web pages.	
15	And then the end users can access those web pages	02:27:42
16	and, as a result, will be able to retrieve the	
17	media.	
18	I'm abbreviating the mechanism, of course,	
19	but that's the if you like, the big picture that	
20	I read when I see Madison. And that, to me, sounds	02:28:06
21	very much like a system that's oriented towards	
22	sharing of media rather than anything more than	
23	that.	
24	MR. BERG: Okay. I think we've been going	
25	for close to an hour and a half now. Would it be a	02:28:29
		Page 128

1 good time for a little break? 02:28:33 2 THE WITNESS: Yes, absolutely. MR. BERG: Okay. Let's go ahead and take 3 4 a short break then, if your counsel agrees. MR. SPRENGER: That's fine. 5 02:28:45 б THE WITNESS: So 10 minutes perhaps? 7 MR. BERG: Yeah. Let's say 2:40 your 8 time? 9 THE WITNESS: That sounds great. MR. BERG: Perfect. 02:28:56 10 THE VIDEOGRAPHER: We are going off the 11 record. The time is 2:28 p.m. Mountain Time, and 12 this is the end of Media Unit 3. 13 (Recess taken.) 14 15 THE VIDEOGRAPHER: We're going back on the 02:42:32 16 record. The time is 2:42 p.m. Mountain Time, and 17 this is the beginning of Media Unit 4. Please continue. 18 BY MR. BERG: 19 20 Q Welcome back, Mr. Adams. 02:42:43 21 Thank you. А Q Did you speak with your counsel during the 2.2 23 break? 24 Α No. 25 Q Okay. Let's -- so I just have a couple of 02:42:53 Page 129

1	questions on the Chang reference in the '887 patent.	02:43:02
2	So let me go ahead and mark that.	
3	(Exhibit 13 marked for identification.)	
4	BY MR. BERG:	
5	Q All right. I've introduced Exhibit 13.	02:44:03
6	Just let me know when you have that, Mr. Adams.	
7	A I have it now.	
8	Q Now, just to orient you in your	
9	declaration, I think you talk about Chang the	
10	Chang reference starting in 109, paragraph 109.	02:44:16
11	But can you tell me what Exhibit 13 is?	
12	A Yes. It's United States Patent No.	
13	6,715,126 entitled "Efficient Streaming of	
14	Synchronized Web Content From Multiple Sources."	
15	Q Okay. Great.	02:44:53
16	And I'll note that Exhibit 13 is marked as	
17	Exhibit 1009 in the '887 IPR.	
18	Does that sound right to you?	
19	A Yes.	
20	Q And will you understand if I refer to this	02:45:08
21	exhibit as the Chang reference?	
22	A Yes, I will.	
23	Q Have you reviewed the Chang reference	
24	before?	
25	A Yes, I have.	02:45:20
		Page 130

1	Q And can you describe just briefly what is	02:45:23
2	being discussed in the Chang reference?	
3	A Yeah. I'm going to flip back to my	
4	report. And you said paragraph oh, yeah,	
5	paragraph 109.	02:45:37
б	Q 109.	
7	A Yeah, I have it.	
8	So "Chang discloses a method 'for	
9	efficiently delivering a presentation of web content	
10	comprised of media, such as audio or video content,	02:45:53
11	having defined in time increments, together with one	
12	or more other content sources, such as images or	
13	events, to be displayed on a monitor, synchronized	
14	so that one or more other images or events are	
15	displayed at the predetermined time increments in	02:46:13
16	the media presentation.'"	
17	Q Chang uses something called a HotAudio	
18	file as part of this synchronization; is that	
19	correct?	
20	MR. SPRENGER: Objection to form.	02:46:28
21	THE WITNESS: Yes. Chang describes these	
22	HotAudio files, which he used to deliver media	
23	streams made up of what he calls primary content,	
24	which could be audio or video, for example, and	
25	secondary content, which may be, for example,	02:46:51
		Page 131

1	images.	02:46:55
2	BY MR. BERG:	
3	Q Now, in the HotAudio file, Chang discloses	
4	that fields specifying frame rate, bit rate and	
5	sequence, among other things, can be included,	02:47:13
б	correct?	
7	MR. SPRENGER: Objection to form.	
8	THE WITNESS: Yeah. I believe I talk	
9	about that at the end of paragraph 111 of my	
10	declaration. The media information block, which is	02:47:31
11	part of the HotAudio file, may include frame rates	
12	and frame numbers.	
13	BY MR. BERG:	
14	Q Now, let's see. Can you flip to	
15	paragraph 191 of your declaration, please?	02:47:58
16	A Yes. I am at 191.	
17	Q So here we are talking about claim 105 in	
18	the '887 patent. And you have the claim language	
19	from claim 105 duplicated there in paragraph 190.	
20	And you say in paragraph 191 that "Chang does not	02:48:33
21	disclose a communication sent to the end user that	
22	is generated based on rules that specify frame rate,	
23	bit rate, or sequence." And you say "Chang merely	
24	discloses that frame rate, bit rate and sequence are	
25	included in a HotAudio file."	02:48:53
		Page 132

1	A Yes, that's correct.	02:48:56
2	Q Do you see that?	
3	So I guess my question to you, you	
4	acknowledge that these elements, you know, frame	
5	rate, bit rate, sequence, are included in the	02:49:09
б	HotAudio file.	
7	What does it mean then for the playlist to	
8	be generated based on rules associated with a frame	
9	rate, for instance?	
10	MR. SPRENGER: Objection to form.	02:49:30
11	THE WITNESS: Well, what I'm talking about	
12	here, referring back to claim 105, is that that	
13	claim is specifically transmitting a communication	
14	based on one or more rules and transmitting that	
15	to so I'm not sure that's the complete claim.	02:50:09
16	It's just part of it.	
17	But, basically, what '887 the claim in	
18	'887 is describing is there are rules in the that	
19	are defined. And it's based on those rules that you	
20	could generate a communication, which that could	02:50:47
21	specify a frame rate, bit rate, and sequence to what	
22	we to the in the case of '887, the	
23	communication device; in the case of Chang, to the	
24	end user.	
25	So I'm merely saying here that Chang does	02:51:10
		Page 133

1	not disclose that specific aspect.	02:51:15
2	BY MR. BERG:	
3	Q So just including the frame rate in the	
4	communication isn't sufficient?	
5	A Yes. I believe that it's a little bit	02:51:27
6	more than that in the 105 claim or, you know,	
7	distinct from that in the 105 claim, in the sense	
8	that these things are dictated by these one or more	
9	other rules rather than, if you like, maybe just	
10	provisioned, as they could be in Chang.	02:51:53
11	Q And the same is true for a frame rate,	
12	meaning that just including a frame rate in a	
13	communication is not does not meet the limitation	
14	to basic communication on a rule that specifies a	
15	frame rate; is that correct?	02:52:15
16	A Well, I don't believe that Chang includes	
17	it in a communication at all. So that would be the	
18	first part of that answer.	
19	Q So the HotAudio file is not a	
20	communication in Chang?	02:52:36
21	A No, I don't believe it is.	
22	Q What distinguishes the HotAudio file in	
23	Chang from the play script in the '887 patent that	
24	would make one a communication and one not a	
25	communication?	02:52:53
		Page 134

1	A Well, I think we need to look at Chang to	02:53:02
2	see how the HotAudio file is used.	
3	Q Mr. Adams, are you looking at Chang right	
4	now to answer that question, or are you waiting for	
5	a follow-up question from me?	02:54:19
6	A Yeah. I was waiting for a follow-up	
7	question.	
8	Q Oh. Sorry.	
9	So, I mean, I guess I would say why don't	
10	you take a second to look at Chang, and then I'll	02:54:31
11	ask you the same question again.	
12	What distinguishes the HotAudio file in	
13	Chang from the play script in the '887 patent?	
14	A Okay. I'm looking at Chang now.	
15	And, as I'm looking through this, I see a	02:56:29
16	lot of description and specification of the HotAudio	
17	file itself and the way it functions. Maybe you	
18	could help me because I don't see anywhere where it	
19	specifically talks about how a HotAudio file is	
20	communicated.	02:57:00
21	Q So I guess, going back to your statement	
22	earlier that the HotAudio file in Chang isn't a	
23	communication that could meet the requirements of	
24	claim 105, was your basis for saying that just that	
25	you're not aware of anywhere in Chang that teaches	02:57:20
		Page 135

1	the HotAudio file is communicated?	02:57:23
2	A Yeah. I mean, there are many other ways	
3	that would be fundamental to it, yes. But there are	
4	many other ways that a play script in the 105 claim	
5	is different.	02:57:44
б	Q So, on paragraph 191 so, setting aside	
7	whether or not the audio file is communicated to the	
8	end user or not, looking at kind of the second and	
9	third paragraphs in your declaration in	
10	paragraph 191, that at least isn't the distinction	02:58:15
11	you rely on here, correct?	
12	A No, it isn't.	
13	Q I guess what I'm trying to just understand	
14	is is what the distinction is that you're relying on	
15	in these sentences.	02:58:38
16	So, for example, Chang's HotAudio file	
17	includes a frame rate. How is that different than	
18	being generated based on rules that specify a frame	
19	rate?	
20	MR. SPRENGER: Objection to form.	02:58:55
21	THE WITNESS: Well, it's different in the	
22	sense that Chang is describing I think, in fact,	
23	she describes a tool to create a HotAudio file. And	
24	that appears to be I would describe it as some	
25	kind of an authoring tool, which would include these	02:59:15
		Page 136

1	elements within the HotAudio file. So that would be	02:59:22
2	the way Chang is describing it.	
3	The way that the '887 patent is describing	
4	it is rather that according to rules which are	
5	associated with the requested media that are	02:59:42
б	specifying such things as frame rate at least one	
7	of frame rate, bit rate or sequence, it then	
8	generates and transmits the communication to, in	
9	this case, the communication device.	
10	BY MR. BERG:	03:00:15
11	Q So what would be an example of a rule that	
12	specifies a frame rate? Or can you point me to an	
13	example in the '887?	
14	A Yes, I believe I can. Let's just go to	
15	'887.	03:00:28
16	So claim 105, of course, is a dependent	
17	claim that refers back to claim 98. And, as we've	
18	talked about here, it basically adds this	
19	limitation, which is generating and transmitting the	
20	communication that is specified in claim 98.	03:01:10
21	And that communication I think you're	
22	basically looking at the limitation of one of the	
23	other dependent claims where it says where that	
24	communication is a playlist; is that correct?	
25	Q Yeah.	03:01:42
		Page 137

1	A Yeah. I thought so.	03:01:42
2	So 105, the communication, which can also	
3	be the playlist, has at least one of the frame rate,	
4	bit rate or a sequence with the requested media.	
5	And, in the patent specification, there are media	03:02:12
6	rules, I believe network rules, and I think program	
7	rules. And I think these are examples of the rules	
8	that are being referred to in claim 105.	
9	Q Thank you for that.	
10	Okay. So let's talk for a few minutes	03:02:58
11	about there have been a few questions on the '887	
12	patent, so	
13	Sorry, just bear with me for a second	
14	here. I think I'm about done on the '887. I just	
15	want to make sure that I haven't missed anything	03:03:58
16	that I wanted to cover.	
17	Let's go to paragraph 129 of your report.	
18	A Okay. Is this still the '887 report?	
19	Q Yeah. Correct.	
20	A Which paragraph here?	03:05:11
21	Q Paragraph 129.	
22	A Okay.	
23	Q Now, so, in the sentence that starts on	
24	page 59 and then goes over to page 60, you note that	
25	the Madison reference enjoys a priority date no	03:05:24
		Page 138

1 earlier than the provisional list on the cover page, 03:05:28 2 which was filed January 18, 2001, correct? Yes. I believe -- yes. That's what it 3 А 4 says here. I believe that's the case, yes. 5 Okay. Do you have any reason to dispute 03:05:45 0 б that Madison '273 is entitled to the January 18, 7 2001 priority date? 8 MR. SPRENGER: Objection to form. 9 THE WITNESS: Well, yeah, basically, I understand, as I say here, the priority date is as 03:06:23 10 listed from the provisional on the cover page, 11 12 January 18, 2001. Yeah. Was that the question? 13 BY MR. BERG: 14 15 Yeah, that was the question. I mean, I 03:06:48 0 16 just wanted to confirm that you didn't have any 17 opinion that Madison wasn't entitled to the priority date of the provisional application listed on its 18 19 cover. No. I think -- I think we agree on that. 03:07:04 20 Α Okay. Let me see if there is anything 21 Q 22 else here. All right. So just one more question. 23 So can you go to paragraphs 87 through 90 24 of your '887 declaration? Yes. I have that in front of me. 25 А 03:08:40 Page 139

1	Q Do you see the blue highlighting on those	03:08:43
2	paragraphs?	
3	A Yes, I do.	
4	Q Do you know or I guess why did you	
5	include blue highlighting on those paragraph	03:08:53
6	numbers?	
7	A I don't think I did. I don't believe I	
8	added those highlights.	
9	Q Okay. So I'll represent to you that those	
10	highlights were in the version that Sito provided to	03:09:09
11	us in this case. So it sounds like those weren't	
12	added by you or at least they were inadvertent?	
13	A I certainly didn't add them. I'm sure	
14	that the version that I provided did not have blue	
15	highlights.	03:09:24
16	Q Okay. And then also on in paragraph	
17	192, there is also some highlighting in	
18	paragraph 192.	
19	Is your answer the same for this	
20	highlighting or is there some reason that you	03:09:39
21	included that highlighting?	
22	A I certainly don't believe that's my	
23	highlighting. I recall that when I provided this	
24	document I did there was no highlighting in it,	
25	or not that highlighting. There is other	03:09:59
		Page 140

1	highlighting.	03:10:01
2	Q Right. The emphasis that you had.	
3	A In the excerpts of things.	
4	But no, there's to my mind, there is no	
5	significance to that, and I don't recall it being	03:10:11
6	there in the document that I signed.	
7	Q Okay. Did you review a draft of Sito's	
8	patent owner response in this case?	
9	A I don't know if it was a draft. I have	
10	seen Sito's patent owner response.	03:10:42
11	Q Let me just mark that really quickly here.	
12	Well, actually, before I mark this, let me	
13	just ask you a question.	
14	Did you do you recall writing any edits	
15	to Sito's patent owner response?	03:11:20
16	A No, I did not. I mean, I don't recall,	
17	but I also would answer in the negative to having	
18	done that.	
19	Q Then we're not even going to introduce	
20	that exhibit.	03:11:44
21	Okay. I think that pretty much covers the	
22	'887 declaration and what I wanted to ask you about	
23	there. So you can set that aside.	
24	A Okay.	
25	Q We may pick it up again at some point, but	03:12:02
		Page 141

1	I don't expect that we will.	03:12:04
2	So, in the let's go ahead and mark	
3	or we've already marked the '360 declaration. But	
4	why don't you go ahead and pull that up for me.	
5	A Yes. I believe that's Exhibit 4.	03:12:48
6	Q Sounds right to me.	
7	And, if you want to go to paragraph 107.	
8	A Yes. I have 107 in front of me.	
9	Q Actually, you know what, before I	
10	before we talk about the Wiser reference, let's do a	03:13:20
11	couple of quick housekeeping things.	
12	So, going up to paragraph 95, where you	
13	start talking about Eyal, this is a, you know, very	
14	similar section to the one that we already talked	
15	about. Maybe it's identical, actually, to the one	03:13:45
16	we talked about in the context of the '887	
17	declaration.	
18	If I asked you the same questions	
19	regarding Eyal in the context of this '360	
20	declaration, would your answers change?	03:13:57
21	MR. SPRENGER: Objection to form.	
22	THE WITNESS: I really don't know. I	
23	think we'd have to go through that exercise to be	
24	sure.	
25	/ / / /	
		Page 142

1	BY MR. BERG:	03:14:20
2	Q Okay. Can you identify any differences	
3	between your section here covering Eyal and in your	
4	'887 declaration?	
5	A Yeah. I believe, you know, if memory	03:14:29
6	serves, that this is it is the same text. Of	
7	course, I believe the references will be different	
8	because we identified that difference in the	
9	specifications. So I believe it's it's	
10	essentially the same, except for different	03:14:55
11	references. That's the case.	
12	Q Okay. And turning to let's see	
13	paragraph 123 of your '360 declaration.	
14	A Yes. This refers to Madison.	
15	Q Yeah. And this is the same Madison	03:15:29
16	reference that we talked about in context with the	
17	'887, right, Madison '273?	
18	A It is indeed, yes.	
19	Q And is your recollection, once again, that	
20	this section is identical or nearly identical to the	03:15:43
21	one in the '887 declaration?	
22	MR. SPRENGER: Objection to form.	
23	THE WITNESS: I believe it will be pretty	
24	much the same, again, with the exception that any	
25	references here are made to actually, I don't	03:16:02
		Page 143

1 think that I've got any references here to the '887 03:16:10 2 or '360 patents. So it looks like it is -- to the best of my recollection, it's the same --3 BY MR. BERG: 4 5 0 Okay. 03:16:28 б -- as the section in the other А 7 declaration. 8 0 Okay. So now let's turn to the Wiser 9 reference, which is -- it starts in paragraph 107. And I'll go ahead and introduce this reference. 03:16:40 10 11 Just let me know when you're able to open 12 that. Yeah. I've opened it. 13 А (Exhibit 14 marked for identification.) 14 15 BY MR. BERG: 03:17:16 16 0 And so I've marked this as Exhibit 14. 17 Can you please tell me what Exhibit 14 is, Mr. Adams? 18 19 A Yes. It's a United States Patent 20 6,385,596 entitled "Secure Online Music Distribution 03:17:29 System." 21 22 0 And will you understand if I refer to this 23 exhibit as the Wiser reference? 24 А Yes. 25 Q And I'll just note for the record that the 03:17:52 Page 144
1	Wiser reference is marked as Exhibit 1006 in the IPR	03:17:54
2	dealing with the '360 patent.	
3	Have you reviewed the Wiser reference	
4	before, Mr. Adams?	
5	A Yes.	03:18:08
б	Q And do you recall that we discussed the	
7	Wiser reference during the deposition we had	
8	together on October 15th?	
9	A I do think that was the case, yes.	
10	Q So I'm not going to spend a lot of time	03:18:23
11	with the Wiser reference today, but there is	
12	there are a couple of aspects that I'd like to talk	
13	about. So let me make sure I've got it up here so	
14	we can go through this together.	
15	Okay. So, in the "Field of the Invention"	03:19:22
16	section in the Wiser reference, which is column 1,	
17	lines 5 through 9, I think.	
18	Do you see that?	
19	A Yes.	
20	Q So do you agree that Wiser is related to	03:19:38
21	system and methods for the online distribution of	
22	digital media data over a public communication	
23	network?	
24	A "This invention relates generally to the	
25	field of online comments and more particularly to	03:20:02
		Page 145

1	system and methods for online distribution of	03:20:05
		03-20-03
2	digital media over public communication networks."	
3	Yes, I believe that's an accurate	
4	description of the field of invention.	
5	Q Okay. And then, going down to the	03:20:17
6	background of the invention, there are several	
7	places here in the background where it talks about	
8	digital media.	
9	So, for example, in column 1, lines 24	
10	through 25, do you agree that the digital media	03:20:36
11	that's being referred to here can be both video and	
12	audio?	
13	A Yes, I believe it can.	
14	Q And then, going down a little bit further,	
15	lines 27 through 29, again, do you agree that the	03:20:55
16	digital media being referred to here can be both	
17	video and audio?	
18	A Yes. I think so.	
19	Q Okay. And then going to column 1, line 55	
20	through 57, do you agree that the digital media here	03:21:22
21	can be both audio and video data?	
22	A Which sorry, which column is that in?	
23	Q Sorry, column 1, lines 55 through 57.	
24	A Yes.	
25	Q And do you understand that when Wiser	03:21:55
		Page 146

1 refers to "digital media," this is -- he's referring 03:21:58 2 to -- the Wiser reference is referring to it consistently in this context? 3 4 MR. SPRENGER: Objection to form. THE WITNESS: You kind of faded out there. 03:22:13 5 б Could you repeat the question? 7 BY MR. BERG: 8 0 Yeah. I apologize. 9 So I just said, do you understand that when Wiser uses the term "digital media," this is 03:22:19 10 the context that the Wiser reference is referring to 11 12 "digital media" in? MR. SPRENGER: Objection to form. 13 THE WITNESS: The context being "digital 14 15 media" being could be audio, video, or something 03:22:39 16 else? 17 BY MR. BERG: 18 0 Yes. 19 Yeah. I believe that's part of what --А 20 yeah. That is included in Wiser's definition of 03:22:51 "digital media," yes. 21 22 Q Can you turn to paragraph -- well, let's 23 go to Section 10, Roman numeral X, which is on 24 page 51 of your declaration. 25 Α Okay. Yes. I'm looking at --03:23:20 Page 147

1	paragraph 129?	03:23:29
2	Q Yeah. Starting with paragraph 129.	
3	A Okay. Yeah.	
4	Q So, just looking at this section here,	
5	which is paragraphs 129 through 139, what is this	03:23:41
6	section of your report directed to?	
7	A It's directed to the priority claim of the	
8	'360 patent.	
9	Q And, in particular, you are opining that	
10	certain limitations in the claims of the '360 patent	03:24:17
11	were found in what you call the January 13, 2001	
12	application; is that correct?	
13	MR. SPRENGER: Objection to form.	
14	THE WITNESS: What yeah. The '519	
15	application originated from an application which,	03:24:47
16	yes, is I refer to as the one as the	
17	January 13, 2001 application, yes.	
18	BY MR. BERG:	
19	Q And so you are identifying disclosures	
20	from the January 13, 2001 application that support	03:25:03
21	certain claim elements of the '360 patent claims,	
22	correct?	
23	MR. SPRENGER: Objection to form.	
24	THE WITNESS: Yes, that's correct.	
25		
		Page 148

1	BY MR. BERG:	03:25:24
2	Q Now, in this section, you don't walk	
3	through all of the limitations of the challenged	
4	claims of the '360 patent, correct?	
5	A No, I do not.	03:25:38
б	Q Is there any reason that you focused on	
7	only specific claim limitations here?	
8	MR. SPRENGER: Objection to form.	
9	THE WITNESS: I think I focused here on	
10	the ones that I thought were relevant.	03:25:56
11	BY MR. BERG:	
12	Q And how did you determine which	
13	limitations were relevant for your analysis?	
14	A Well, I think that it would probably be	
15	better to talk about that point by point rather than	03:26:17
16	to answer that generally.	
17	Q Okay. Well, let me ask the flip side of	
18	it.	
19	How did you determine which claim elements	
20	not to include in your analysis?	03:26:32
21	A Well, I think, if we look at the claim	
22	elements that I did include, we can talk about we	
23	can see why they're included. And the ones I didn't	
24	include were not included because they didn't seem	
25	to be pertinent to this discussion.	03:27:03
		Page 149

1	Q So, for the claim elements that are	03:27:16
2	included in this discussion here, you don't have any	
3	opinion one way or another whether there is written	
4	description support for those limitations in the	
5	January 13, 2001 application, correct?	03:27:31
6	MR. SPRENGER: Objection to form.	
7	THE WITNESS: I think I may have	
8	misunderstood or misheard the question. Could you	
9	ask that question again?	
10	BY MR. BERG:	03:27:49
11	Q Sure.	
12	A I think I may have missed something.	
13	Q So, for the claim limitations of the '360	
14	patent that you don't address in this section, do	
15	you have any opinion as to whether or not the	03:27:59
16	January 13, 2001 application provides written	
17	description support for those claim limitations?	
18	A I haven't yet formed an opinion, would be	
19	the right way of answering that, I think.	
20	Q Okay. Turning to paragraph 178.	03:28:39
21	A Yeah.	
22	Q So, in paragraph 178, you talk about the	
23	claims and the specification of the '360 patent	
24	distinguished between video, e.g., an entire movie,	
25	and segments of the video, e.g., a segment of a	03:29:22
		Page 150

1	movie.	03:29:26
2	Is there a difference between "segment" as	
3	used in the claims of the '360 patent and "portion"	
4	as used in the claims of the '887 and other patents	
5	in this family?	03:29:42
6	MR. SPRENGER: Objection to form.	
7	THE WITNESS: I haven't given opinion on	
8	that in my report. My report did not include or nor	
9	was I asked to compare the claims of one of these	
10	patents, '360, for example, with another patent,	03:30:07
11	'887, for example. So, no, I haven't formed an	
12	opinion on that.	
13	BY MR. BERG:	
14	Q So, sitting here today, do you have any	
15	opinion as to whether there's a difference between	03:30:24
16	"segment" and "portion"?	
17	MR. SPRENGER: Objection to form.	
18	THE WITNESS: As I say, I haven't formed	
19	an opinion on that. I think that would be, you	
20	know, to form a you know, an opinion that I would	03:30:38
21	want to stand behind, if you like, a proper	
22	considered opinion, I would want to go back and look	
23	at that specific question, looking at both patents	
24	side by side, looking at the claims side by side.	
25	And that simply isn't an exercise that I've taken on	03:30:59
		Page 151

1	or been asked to take on.	03:31:04
2	BY MR. BERG:	
3	Q So, other than in the "Summary of the	
4	Invention" section of the '360 patent, are you aware	
5	of any place in the specification that provides	03:31:21
6	written description support for the term "segment"?	
7	MR. SPRENGER: Objection to form.	
8	THE WITNESS: Other than the summary of	
9	the invention. I think the best way to answer that	
10	is to have a look because that's not a specific	03:31:40
11	so segments are yes, they do appear in the	
12	abstract of the patent. So, to answer your	
13	question, yes.	
14	BY MR. BERG:	
15	Q Okay. Fair enough.	03:32:11
16	So, outside of the abstract of the patent	
17	and the summary of the invention of the patent, are	
18	you aware of anywhere else in the specification that	
19	provides written description support for the word	
20	"segment"?	03:32:23
21	A No, I'm not.	
22	Q And while we're sitting here, did you do a	
23	word search for the word "segment" by chance?	
24	A I didn't. And "segment" does appear in	
25	other parts of the patent specification, but it's	03:33:01
		Page 152

1	not used in the same sense as it's used in the	03:33:04
2	abstract and the summary.	
3	Q Okay. So, when you say here in	
4	paragraph 178 that the specification of the '360	
5	patent distinguishes between an entire movie and	03:33:37
6	segments or, sorry, between video and segments of	
7	the video, where in the specification are you	
8	referring to?	
9	A I'm referring to similar language in the	
10	specification. Let me find it for you.	03:34:10
11	Starting off at the bottom of column 6,	
12	line 56, "The streaming system also enables a media	
13	owner to identify a program or a portion of a	
14	program that's made available for streaming."	
15	And it goes on to say "a program typically	03:35:05
16	identifies sequencing," et cetera, et cetera, "where	
17	the media clips are to be placed."	
18	So I believe that when I read the patent	
19	claims of '360, it's using "segment" interchangeably	
20	with the specification here, which is saying	03:35:35
21	"portion."	
22	Q So can you flip over to the '887 patent	
23	for just a second, please?	
24	A Yes, I can.	
25	Yes. I've got the '887 patent open.	03:36:20
		Page 153

1	Q And do you see that the same paragraph	03:36:24
2	appears in column 5, starting at line 37?	
3	A Yes. That appears to be a similar or, in	
4	fact, most likely the same paragraph.	
5	Q And, if I asked you in the context of the	03:37:10
б	'887 patent to point me to where the patent	
7	distinguished between a video and portions of a	
8	video, is this one example of where you would point	
9	me?	
10	A Yes. I believe I would.	03:37:25
11	Q So at least in this example, as you read	
12	"segment" and "portion," the two would be the same;	
13	is that fair?	
14	A In this specific instance, yes.	
15	Q So let's go to paragraph 209 or sorry,	03:38:13
16	210 of your '360 report.	
17	A Okay. I'll go back to the '360	
18	declaration. I'll make sure I've got the right one.	
19	Yeah. Which paragraph again?	
20	Q Let's just go to, actually, paragraph 193,	03:38:51
21	just so you can be oriented here.	
22	A Yeah. I'm looking at 193.	
23	Maybe, before you ask me the next	
24	question, this might be a good time to take a short	
25	break.	03:39:18
		Page 154

Yeah, absolutely. Happy to do that. 10 1 Q 03:39:19 2 minutes? 3 Yeah. That sounds good. А 4 MR. BERG: Good with you, Kevin? 5 THE WITNESS: That would be coming back at 03:39:33 б 3:50 my time. 7 MR. BERG: Perfect. Let's go ahead and go off the record then, and we'll do that. 8 9 THE VIDEOGRAPHER: We're going off the record. The time is 3:39 p.m. and the -- this is 03:39:42 10 the end of Media Unit 4. 11 12 (Recess taken.) THE VIDEOGRAPHER: We're going back on the 13 record. The time is 3:50 p.m. And this is the 14 15 beginning of Media Unit 5. Please continue. 03:50:52 BY MR. BERG: 16 17 Q Okay. So I think we were just going to -well, we went to paragraph 193 of your '360 report. 18 19 Can you just go ahead and go there, 20 Mr. Adams? 03:51:16 Yes. I'm looking at that now. 21 Α 22 0 Okay. So do you see that this section is 23 dealing with your opinions as to why Eyal and Wiser 24 do not disclose or suggest additional depending claims? 25 03:51:34 Page 155

1	A Yes.	03:51:35
2	Q And then you'll see that section continues	
3	down through paragraphs 210 and 211.	
4	Do you see that?	
5	A Yes, it does. Yeah.	03:51:52
6	Q Okay. So, in paragraph 210, you talk	
7	about dynamically generating advertisements,	
8	referring to making a determination of an	
9	advertisement to insert into a video at the time the	
10	video is being played.	03:52:16
11	Do you see that?	
12	A That's correct.	
13	Q What do you mean by "at the time the video	
14	is being played" here in this sentence?	
15	A Well, following on, I refine it to mean in	03:52:33
16	particular that the '360 patent specification	
17	discusses dynamic generation being performed by the	
18	RTSMS after the RTSMS receives a request for media	
19	from a user device.	
20	So that's what I mean by that.	03:52:57
21	Q So it's after the request has been	
22	received, but not necessarily during the actual	
23	playback of the media?	
24	A The yeah. To be clear, as I understand	
25	the '360 patent specification, the decision on what	03:53:23
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1	advertisement is to be placed is made when after	03:53:32
2	the RTSMS receives the request for media. That is,	
3	if you like, the start of the playback process.	
4	Q I see.	
5	A And then that continues on as described in	03:53:53
6	the specification.	
7	Q I see. That makes sense. Thank you for	
8	that clarification.	
9	Now, in paragraph 211, you say "Systems	
10	for dynamic generation of advertisements are	03:54:14
11	sophisticated and therefore cannot simply be	
12	incorporated into the Madison system."	
13	First of all, I assume "Madison" here is	
14	just a typo and should say "Eyal"?	
15	MR. SPRENGER: Objection to form.	03:54:31
16	THE WITNESS: I am not sure. I think	
17	you're probably right. It does seem that we're	
18	talking about Eyal. And we're we then it	
19	seems like here Madison is a little yeah. It	
20	could well be a typo and should say "Eyal."	03:54:59
21	BY MR. BERG:	
22	Q And I'll just point out that the same	
23	sentence is used in the context of Madison in	
24	paragraph 241.	
25	A Okay. Let me check that. 241.	03:55:09
		Page 157

1 Yes, it does appear there. And there it's 03:55:26 2 clearly referring to Madison because the whole section is. Yeah. 3 So, going back to 211, you say that these 4 Q systems for dynamic generation are sophisticated. 03:55:40 5 б What do you mean when you say that they're 7 sophisticated? 8 Α I mean that they are complex and can 9 include quite a degree of complexity and sophistication. 03:56:05 10 What sophistication does the '360 patent 11 0 12 disclose related to dynamically generated advertisements? 13 It discloses matching the ads according 14 А 15 to, I believe, media rules and maybe other rules as 03:56:25 16 well, and also deciding on which ad to be placed based on characteristics of the -- of the dealer, 17 which could be demographic information, for example, 18 19 age, location, that kind of thing. 20 So there's quite a lot in the '360 03:56:59 21 specification about the various ways that 22 advertisements can be selected when a request for 23 media is made by the viewer. 24 Okay. Now, let me just ask you a handful 0 25 of additional questions, Mr. Adams, and then we can 03:57:44 Page 158

1 wrap up for today. 03:57:50 2 So we've talked today about the '887 declaration and the '360 declaration. 3 4 Do you expect to supplement the '887 5 declaration at any point? 03:58:02 б I do not expect to do that at this time, А 7 no. 8 Do you plan to supplement the '360 0 9 declaration at any point? A I have no plan at this time to supplement 03:58:15 10 11 it. 12 Sitting here today, do you plan to review Q any additional materials? 13 MR. SPRENGER: Objection to form. 14 15 THE WITNESS: No, I do not. 03:58:27 BY MR. BERG: 16 17 Q Have your opinions changed as a result of today's deposition? 18 19 A No, they have not. Are your opinions regarding these three 03:58:40 20 Q IPRs fully contained in your -- sorry. Let me 21 22 strike that. 23 Are your opinions regarding the '360 IPR 24 fully contained in your '360 declaration? 25 MR. SPRENGER: Objection to form. 03:58:55 Page 159

1 THE WITNESS: Yeah. With respect to the 03:59:01 2 IPR relating to the '360 patent, I believe it's fully contained in the declaration. 3 BY MR. BERG: 4 5 And are your opinions regarding the IPR 03:59:16 0 addressing the '887 patent fully contained in your 6 7 '887 declaration? 8 MR. SPRENGER: Objection to form. 9 THE WITNESS: I believe they are. MR. BERG: In that case, I have no further 03:59:32 10 11 questions at this time. Thank you for your time today, Mr. Adams. 12 THE WITNESS: You're welcome. 13 MR. SPRENGER: Okay. Why don't we go off 14 15 record. 03:59:48 16 THE VIDEOGRAPHER: We are going off the 17 record. The time is 3:59 p.m. And this concludes 18 today's testimony given by Michael Adams. The total 19 number of media units used was five and will be 20 retained by Veritext Legal Solutions. 04:00:06 MR. SPRENGER: I'm sorry. I wasn't -- I 21 22 was intending to just take a break, not conclude. 23 THE VIDEOGRAPHER: I apologize. In that 24 case, this is the end of Media Unit 5, and the time 04:00:21 25 is 4:00 p.m. Mountain. Page 160

1	(Recess taken.)	04:16:42
2	THE VIDEOGRAPHER: We are going back on	
3	the record. The time is 4:16 p.m. Mountain. And	
4	this is the beginning of Media Unit 6. Please	
5	continue.	04:17:02
6	MR. SPRENGER: Okay. Thank you,	
7	Mr. Adams, for your time today. I have no further	
8	questions for Mr. Adams, but I just did want to take	
9	the time	
10	MR. BERG: Sorry. Hold on a second.	04:17:14
11	I apologize. I had my volume turned off,	
12	so I didn't I was like, why is no one talking?	
13	MR. SPRENGER: So, to restate, I have no	
14	further questions for Mr. Adams. But I just wanted	
15	to take the opportunity to state two objections for	04:17:33
16	the record.	
17	The first is just to the line of	
18	questioning of Mr. Adams on the Madison '703	
19	reference in the context of the '887 patent. We	
20	object to the line of questioning because the	04:17:48
21	Madison '703 reference was not relied upon by Hulu	
22	in their petition for the '887 patent. And it's	
23	therefore beyond the scope of the '887 petition as	
24	well as Mr. Adams' declaration in the '887 petition.	
25	And we reserve the right to file motions	04:18:10
		Page 161

1 to strike, motions to exclude, to the extent that 04:18:13 2 Hulu relies on that line of questioning in their 3 reply. 4 The second objection is on the line of questioning about the written description support 04:18:26 5 for the term "segment." The written description 6 7 alludes to a Section 112 issue, which is outside the 8 scope of this IPR proceeding. So we'd, like, 9 similarly object to that line of questioning. But aside from that, I have no further 04:18:45 10 11 questions. MR. BERG: Okay. So Hulu obviously 12 disagrees with those objections. And, to the extent 13 the second one was not stated on the record at the 14 15 time, we believe it has been waived by Sito. It may 04:18:56 16 have been stated on the record at the time. We'll 17 have to see that. But I understand that you reserve 18 your right to object to that evidence. MR. SPRENGER: Okay. So, otherwise, I'm 19 20 ready to go off record for real this time. 04:19:12 THE VIDEOGRAPHER: We're going off the 21 22 record. The time is 4:19 p.m. Mountain. And this 23 concludes today's testimony given by Michael Adams. 24 The total number of media units used was 25 six and will be retained by Veritext Legal 04:19:29 Page 162

1	Solutions.		04:19:30
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1	DECLARATION UNDER PENALTY OF PERJURY
2	
3	I, MICHAEL ADAMS, the witness herein, declare under
4	penalty of perjury that I have read the foregoing in its
5	entirety; and that the testimony contained therein, as
6	corrected by me, is a true and accurate transcription of
7	my testimony elicited at said time and place.
8	
9	Executed this day of 2021, at
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11	(City) (State)
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17	MICHAEL ADAMS
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1 REPORTER'S CERTIFICATION I, Leslie Johnson, a Certified Shorthand 2 3 Reporter of the State of California, do hereby certify: 4 That the foregoing proceedings were taken 5 before me at the time and place herein set forth; that any witnesses in the foregoing proceedings, prior to б 7 testifying, were administered an oath; that a record of 8 the proceedings was made by me using machine shorthand 9 which was thereafter transcribed under my direction; 10 that the foregoing transcript is a true record of the testimony given. 11 12 Further, that if the foregoing pertains to 13 the original transcript of a deposition in a Federal 14 Case, before completion of the proceedings, review 15 of the transcript [] was [] was not requested. 16 I further certify I am neither financially interested in 17 the action nor a relative or employee of any attorney or 18 any party to this action. 19 IN WITNESS WHEREOF, I have this date 20 subscribed my name. Dated: 10/27/2021 21 deslie Johnson 22 23 24 LESLIE JOHNSON 25 CSR No. 11451, RPR, CCRR Page 165

1	BRAD BERG, ESQ.
2	bmberg@omm.com
3	October 27, 2021
4	RE: HULU, LLC v. SITO MOBILE R&D IP, LLC and SITO MOBILE, LTD.
5	10/20/2021, MICHAEL ADAMS, JOB NO. 4833203
6	The above-referenced transcript has been
7	completed by Veritext Legal Solutions and
8	review of the transcript is being handled as follows:
9	Per CA State Code (CCP 2025.520 (a)-(e)) - Contact Veritext
10	to schedule a time to review the original transcript at
11	a Veritext office.
12	Per CA State Code (CCP 2025.520 (a)-(e)) - Locked .PDF
13	Transcript - The witness should review the transcript and
14	make any necessary corrections on the errata pages included
15	below, notating the page and line number of the corrections.
16	The witness should then sign and date the errata and penalty
17	of perjury pages and return the completed pages to all
18	appearing counsel within the period of time determined at
19	the deposition or provided by the Code of Civil Procedure.
20	Waiving the CA Code of Civil Procedure per Stipulation of
21	Counsel - Original transcript to be released for signature
22	as determined at the deposition.
23	Signature Waived - Reading & Signature was waived at the
24	time of the deposition.
25	
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1	Federal R&S Requested (FRCP 30(e)(1)(B)) - Locked .PDF
2	Transcript - The witness should review the transcript and
3	make any necessary corrections on the errata pages included
4	below, notating the page and line number of the corrections.
5	The witness should then sign and date the errata and penalty
6	of perjury pages and return the completed pages to all
7	appearing counsel within the period of time determined at
8	the deposition or provided by the Federal Rules.
9	_x_ Federal R&S Not Requested - Reading & Signature was not
10	requested before the completion of the deposition.
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Federal Rules of Civil Procedure

Rule 30

(e) Review By the Witness; Changes.

(1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
(A) to review the transcript or recording; and
(B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.

(2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

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VERITEXT LEGAL SOLUTIONS COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

Veritext Legal Solutions represents that the foregoing transcript is a true, correct and complete transcript of the colloquies, questions and answers as submitted by the court reporter. Veritext Legal Solutions further represents that the attached exhibits, if any, are true, correct and complete documents as submitted by the court reporter and/or attorneys in relation to this deposition and that the documents were processed in accordance with our litigation support and production standards.

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