Videotaped Deposition of

## **Henry Houh**

July 27, 2021

Hulu

VS.

SITO Mobile



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1 UNITED STATES PATENT AND TRADEMARK OFFICE 2 BEFORE THE PATENT TRIAL AND APPEAL BOARD 3 -----X 4 HULU, LLC, : 5 Petitioner,: Review Nos. : IPR2021-00158 6 v. 7 SITO MOBILE R&D IP, LLC : IPR2021-00206 and SITO MOBILE, LTD.,: IPR2021-00219 8 9 Patent Owner.: 10 -----X 11 12 REMOTE VIDEOTAPED STENOGRAPHIC DEPOSITION OF 13 HENRY HOUH 14 Tuesday, July 27, 2021 15 11:03 a.m. 16 17 18 19 20 21 22 23 STENOGRAPHICALLY REPORTED BY: 24 GISELLE MITCHELL-MARGERUM, RPR, CRI, CCR, LCR, CSR 25 Job No.: 10085962

1	Deposition of HENRY HOUH, held remotely, via
2	videoconference at:
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5	VIA VIDEOCONFERENCE
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9	Pursuant to agreement, before Giselle
10	Mitchell-Margerum, Registered Professional Reporter,
11	Certified Reporting Instructor, Licensed Court Reporter
12	(TN), Certified Court Reporter (GA), Certified Court
13	Reporter (NJ), Certified Court Reporter (WA), Certified
14	Shorthand Reporter (OR), and Notary Public (Washington,
15	D.C.).
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1	PROCEEDINGS
2	THE VIDEOGRAPHER: Okay. We are now on
3	the record. Today's date is July 27th 2021, and
4	the time is 11:03 a.m. This is the remote video
5	recorded deposition of Dr. Henry Houh, via Zoom
6	videoconference. Being taken in the matter of Hulu,
7	LLC v. SITO Mobile R&D, LLC., et al.
8	My name is Spencer Benveniste, appearing
9	for Aptus Court Reporting, located at 600 West
10	Broadway, Suite 300, in San Diego, California 92101.
11	I'm the official videographer for this deposition,
12	and this recording is the only authorized video
13	recording of this deposition.
14	The audio and video recording will take
15	place at all times, unless all counsel agree to go
16	off the record.
17	Will counsel please identify yourselves
18	and state whom you represent?
19	MR. CHARKOW: Jason Charkow, of the
20	Daignault Iyer firm, on behalf of the SITO entities.
21	And with me today, I have Mitch Yang, from the
22	Carmichael IP firm.
23	MR. BERG: Brad Berg from the law firm,
24	O'Melveny & Myers, representing petitioner, Hulu
25	LLC.

1	THE VIDEOGRAPHER: The court reporter
2	MR. CHARKOW: Good morning, Dr. Houh
3	THE VIDEOGRAPHER: The court reporter
4	today
5	THE WITNESS: Good morning.
6	THE VIDEOGRAPHER: I'm sorry. The court
7	reporter today is Giselle Mitchell, and she may now
8	swear in or affirm the deponent.
9	HENRY HOUH
10	Having been duly sworn testified as follows:
11	CROSS-EXAMINATION BY MR. CHARKOW:
12	Q. Good morning, Dr. Houh.
13	A. Good morning. How are you?
14	Q. Good. Please identify strike that.
15	Please introduce yourself.
16	A. Hi. My name is Henry H. Houh. "Houh" is
17	spelt H-O-U-H.
18	MR. CHARKOW: I'm going to ask the
19	videographer to hand you an exhibit. And this is
20	Spencer, this is the Notice of Deposition for the
21	265 case.
22	THE VIDEOGRAPHER: This is Spencer, the
23	videographer. What exhibit number will this be
24	marked?
25	MR. CHARKOW: This will be Exhibit 1.

1	(Exhibit 1 marked for identification)
2	MR. CHARKOW: Dr. Houh, let me know when
3	you have access to that.
4	THE WITNESS: I have it open now.
5	BY MR. CHARKOW:
6	Q. Dr. Houh, have you seen this Exhibit 1
7	before?
8	A. No.
9	Q. Dr. Houh, this is Exhibit 1 is the
10	is the Patent Owner's Notice of Deposition of
11	Dr. Henry Houh, in case number IPR2021-265.
12	You understand that you are here to
13	testify today, as an expert on behalf of Hulu.
14	Correct? In that matter.
15	A. I understand that I'm testifying about the
16	declarations I submitted in this case.
17	Q. Right. In the matter that I just
18	described, or stated, on behalf of Hulu. Correct?
19	A. In the IPR2021-265.
20	Q. On behalf of Hulu?
21	A. I mean, Hulu's the petitioner in this
22	case. I submitted a declaration on behalf of the
23	petitioner.
24	Q. Okay. You could put that exhibit aside.
25	MR. CHARKOW: Spencer, if you can provide

1	to Notice of Deposition ending in "298?" And we're
2	going to mark that as Exhibit 2.
3	(Exhibit 2 marked for identification)
4	MR. CHARKOW: And, Dr. Houh, if you could
5	let me know when you receive, or have access to that
6	exhibit?
7	THE WITNESS: Okay, I have it up now.
8	BY MR. CHARKOW:
9	Q. Dr. Houh, have you seen Exhibit 2 before?
10	A. No.
11	Q. And Exhibit 2 is the Patent Owner's Notice
12	of Deposition of Dr. Henry Houh, in IPR2021-00298.
13	Dr. Houh, you understand that you're here today,
14	testifying about your declaration in the IPR 298
15	case, on behalf of Hulu. Correct?
16	A. I understand that I'm here to testify
17	about the declaration I submitted in this case for
18	the petitioner.
19	Q. Who is Hulu. Correct?
20	A. The petitioner is Hulu.
21	Q. You could put that document aside,
22	Dr. Houh.
23	MR. CHARKOW: Spencer, if you could
24	provide Dr. Houh with exhibit well, sorry. It's
25	the IPR ending in "304." It's the Notice of

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1	Deposition. And we're going to mark that as
2	Exhibit 3.
3	(Exhibit 3 marked for identification)
4	MR. CHARKOW: And, Dr. Houh, if you could
5	just let me know when you have access to that
б	document?
7	THE WITNESS: Okay. I have it up now.
8	BY MR. CHARKOW:
9	Q. Exhibit 3 is the Patent Owner's Notice of
10	Deposition of Dr. Henry Houh, in IPR2021-00304.
11	Dr. Houh, have you seen this document before?
12	A. No. I have not.
13	Q. Dr. Houh, you understand that you're here
14	today to testify in this IPR proceeding the 304
15	proceeding on behalf of petitioner, Hulu.
16	Correct?
17	A. I understand I'm here to testify with
18	respect to the declaration I've submitted in this
19	particular case, that was for the petitioner, which
20	is Hulu.
21	Q. Thank you, Dr. Houh. You can put that
22	Exhibit aside.
23	MR. CHARKOW: Spencer, can you please
24	provide Dr. Houh with the Notice of Deposition that
25	ends in "308," please? And we'll mark that as

1	Exhibit 4.
2	(Exhibit 4 marked for identification)
3	MR. CHARKOW: And, Dr. Houh, if you could
4	just let me know when you have access to that
5	document, please?
6	THE WITNESS: Okay. I have it open now.
7	BY MR. CHARKOW:
8	Q. Exhibit 4 is a document entitled, "Patent
9	Owner's Notice of Deposition of Dr. Henry Houh, in
10	IPR2021-00308."
11	Dr. Houh, have you seen this document
12	before?
13	A. No, I have not.
14	Q. Dr. Houh, you understand you're here today
15	to testify in the 308 IPR proceedings on behalf of
16	Hulu. Correct?
17	A. I understand that I'm here today to
18	testify about the declaration I submitted in this
19	particular case, for the petitioner, which is Hulu.
20	Q. Great. So, Dr. Houh, you can put aside
21	that exhibit as well. We're done with that.
22	Dr. Houh; you understand you're a
23	testifying expert in all four of these cases? That
24	is IPR2021-265; 298; 304; and 308?
25	A. Those sound like the right numbers to me.

1	Q. And you're testifying as an expert in each
2	of those cases. Correct?
3	A. That's my understanding. I'm testifying
4	about the declarations I submitted in each of those
5	cases.
6	Q. Right. But as an expert?
7	A. My opinions in the cases are from the
8	perspective of a person of ordinary skill. But I
9	if you would ask me if I would consider myself
10	having at least that level of expertise, I do.
11	Q. But, just to be clear, you're an expert in
12	HCT related technologies. Correct?
13	A. Generally speaking, I would agree with
14	that statement.
15	Q. And you're an expert in streaming media.
16	Correct?
17	A. I generally would agree with that
18	statement.
19	Q. And you're an expert in websites and web
20	pages. Correct?
21	A. I generally would agree with that
22	statement.
23	Q. And you prepared a declaration in each of
24	the cases that we have discussed the IPR cases
25	ending in 265; 298; 304; and 308. Correct?

	ry Houh
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1	A. Yeah. I submitted declarations in that
2	case, which reflect my written opinions in each of
3	those cases, respectively.
4	Q. And each of those declarations in each of
5	- those four cases reflect your opinions. Correct?
6	A. You know, I believe I just said that. But
7	the written declaration reflects my opinion in each
8	of the respective cases.
9	Q. And with regards to the references in
10	particular, the prior art references that you
11	analyzed in each of the declarations, you studied
12	those references carefully. Correct?
13	A. I've reviewed, thoroughly, the references
14	that were used as prior art.
15	Q. Okay. And there was a number of other
16	exhibits in the various declarations. Correct?
17	A. That's correct.
18	Q. And you reviewed each one of those
19	exhibits thoroughly, as well. Correct?
20	A. Well, I've reviewed them. Some of them
21	are rather lengthy, but I reviewed them and to
22	support the statements. For example, in the
23	background.
24	Q. So, is it correct that at least with
25	regards to some of the exhibits to your declarations

	Henry	Houh
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1	that are not the analyzed prior art, that you did
2	not review the entire exhibit?
3	A. For this particular case, when I submitted
4	the declaration, I mean, it's again, some of the
5	documents are rather lengthy. I definitely reviewed
6	them for what supporting the statements that I
7	made in the background.
8	It's possible that I reviewed them fully
9	in the past, at some point. But for purposes of the
10	declaration, there may have been a few documents
11	that I I didn't read, cover to cover, for the
12	purposes of citing specific portions from my
13	background section.
14	Q. Do you recall which documents which
15	exhibits you did not read thoroughly?
16	A. Well
17	Q. Or completely?
18	A. Again, as I said, you know, if you want to
19	show me the list of documents in each particular
20	case cite, we can go through them one by one. But I
21	just can't recall something like that off the top of
22	my head.
23	And, furthermore, many of the documents
24	that I was generally already familiar with, that, at
25	some point in the past, I, you know, likely have

1	reviewed, cover to cover.
2	But, again, for the purpose of this case,
3	there are some in there that I may not have
4	reviewed, at the time I submitted my declaration,
5	cover to cover.
6	Although I searched for, and reviewed the
7	document to find things that supported my statements
8	in the background section. Some of my statements in
9	the background section.
10	Q. When you say you reviewed some of the
11	documents in the past, when would when would
12	those have been in the past? Would those have been
13	in the last couple of months? Or years ago?
14	A. Well
15	Q. You know, for the ones where you said you
16	don't believe you recently reviewed, cover to cover.
17	A. Probably years ago. Generally, I was very
18	familiar with those particular types of documents.
19	I mean, if we can go through the list one by one,
20	I'd be happy to do that.
21	But I think I recall some, for example,
22	RSCs, which I'm generally familiar with. And
23	generally familiar with what's in them. And likely,
24	at some point in the past, years ago, I likely have
25	reviewed most, or all of those documents.

1	Q. Okay. So, when was the last time you
2	reviewed the RealNetworks Form S-1, cover to cover?
3	A. So
4	Q. The September 26th 1997.
5	A. I mean, I've that particular document
6	has come up in numerous cases, starting years ago.
7	And I likely flipped through it. You know, the
8	S-1s I'm generally familiar with S-1s. I know
9	sometimes they contain charts and statements.
10	I recall flipping through the document. I
11	may not have read every single word in that S-1, but
12	I'm generally familiar with the structure and, you
13	know, things that are important to support my
14	statements, and things which I think I could just
15	quickly scan or skip over
16	Q. Okay. And that
17	A in an S-1.
18	Q. Okay. And, just for the record, the
19	RealNetworks Form S-1, September 26th 1997, is
20	Exhibit 1013. And then, there is Exhibit 1014. It
21	says, "Portions of e-Video by H. Peter Alesso"
22	A-L-E-S-S-O.
23	Did you review the entire video that's
24	that exhibit?
25	A. For that particular document, I can't

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Henry Houh
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1	recall, specifically.
2	Q. Okay. Exhibit 1015, entitled,
3	"Synchronized Multimedia Integration Language (SMIL)
4	1.0 Specification," dated June 15th 1998.
5	When was the last time you read that
6	specification, cover to cover?
7	A. I can't recall, off the top of my head.
8	Q. Was it before you submitted your expert
9	report? Expert declaration. I'm sorry. Expert
10	declaration.
11	A. Yeah. I mean, I've dealt with with
12	that format before in other cases. So, I just can't
13	recall when the first time would have been, that I
14	saw that.
15	Q. Exhibit so, the SMIL specification, you
16	recall reviewing it, cover to cover, in the last
17	year?
18	A. I don't have a specific recollection of
19	that in the past year.
20	Q. You don't have a recollection of doing it
21	in the past year? Or you don't have a
22	recollection well, yeah. Let me ask you that.
23	Do you have a recollection of looking at
24	the SMIL specification, cover to cover, in the last
25	year?

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1	A. I mean, if you provided me that document,
2	I might be able give you a better answer. But just
3	off the top of my head, I don't have a specific
4	recollection of of reading it, word cover to
5	cover, in the past year.
6	Q. Okay. Do you have a so now, I'm
7	looking at an Exhibit 1016. Do you have a
8	recollection of reading "RealNetworks Production
9	Guide for Real Systems G2," cover to cover, within
10	the last year?
11	A. I think I'm familiar with that that
12	Real document, I think, from other cases. I don't
13	think I read it cover to cover, in the last year.
14	Q. Did you read that RealNetworks Production
15	Guide within the last two years, cover to cover?
16	A. I mean, I can't tell you, specifically. I
17	mean, I'm generally familiar with that document.
18	I've seen it numerous times, and it's come up
19	numerous times in various cases.
20	I just can't tell you the first time I
21	would have looked at it, or read it cover to cover.
22	But I likely read, you know, large portions, or
23	most, if not all of that document.
24	I mean, if you want to show me, there are
25	probably a few things that I can tell you that, you

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1	know I probably didn't read every word on that
2	page.
3	Q. Right. So in the last two years, do you
4	know if you reviewed the RealNetworks Production
5	Guide, from cover to cover, in the last two years?
6	A. Yeah. Again, I don't have a specific
7	recollection in the past years of reviewing, that
8	cover to cover.
9	Q. Okay. And with regards going back to
10	the SMIL specification that we were previously
11	talking about, do you have any recollection of
12	reading that specification, cover to cover, in the
13	last two years?
14	A. I mean, I can't recall specific instance,
15	sitting here right now, where I've done that.
16	Q. And if I go to this is an exhibit,
17	1018. And this is entitled, "Microsoft, 'Ad
18	Insertion.'" And it's from an archive.
19	Do you recall that document, Dr. Houh?
20	A. I mean, it sounds familiar. There's a
21	couple of Microsoft documents. I think if you could
22	show me the document, I could remember which
23	which Microsoft document you're referring to.
24	Q. So, Exhibit 1020, it entitled, "Cisco
25	Systems, 'The Cisco Content Delivery Network

1	Solution for the Enterprise.'"
2	Do you recall reviewing that document,
3	cover to cover, within the last two years?
4	A. Yeah. I believe I have reviewed that
5	document within the last two years, from front to
6	back.
7	Q. What about in the last year? Do you
8	recall reviewing that, front to back, within the
9	last two years, the Cisco systems document?
10	A. I mean, if it's the one I'm thinking
11	about, I think that I have, in the last year.
12	Q. And then, there is an Exhibit 1021, which
13	is "Akamai Form S-1 (Amendment No. 6, October 28th
14	1999)." Do you recall if you reviewed that
15	document, cover to cover, in the last two years?
16	Within the last two years?
17	A. I don't have a specific recollection of
18	that, sitting here right now.
19	Q. So you don't know, one way or the other?
20	A. Yeah. I don't know, one way or the other.
21	I can't recall the specific document you're asking
22	me about. If you were to show me the document, I
23	might remember the document.
24	But at this at this point, just giving
25	me the title, you know, I haven't memorized all

1	these exhibits. So, I just I can't recall that
2	specific one. Which one that is.
3	Q. Exhibit 1025 and that's entitled
4	it's "Hua et al. 2PSM: An efficient framework for
5	searching video information in a limited-bandwidth
6	environment."
7	Do you recall reviewing that document,
8	from cover to cover, within the last two years?
9	A. I think that's possible. I just I
10	don't I don't have a specific recollection. The
11	document sounds pretty familiar to me.
12	Again, I don't have all these documents
13	memorized, so if you were to show me the document, I
14	think I have a better chance of giving you a more
15	full answer.
16	Q. All right. What about Exhibit so,
17	Exhibit 1026, entitled, "Computer Networking by
18	J.F. Kurose K-U-R-O-S-E and K.W. Ross?"
19	Do you recall reviewing that document
20	within the last two years, cover to cover, from
21	front to back?
22	A. Yeah. I mean, if you were showing me the
23	document, I could tell you, with respect to that
24	exhibit, how much of it I've reviewed over the last
25	two years.

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Henry Houh
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1	But sitting here right now, I don't I
2	don't recall that, specifically.
3	Q. Okay. What about so this is
4	Exhibit 1031. "RFC 1945 Hypertext Transfer
5	Protocol Version 1.0," dated 1996?
6	Do you recall reviewing that document,
7	cover to cover, within the last two years?
8	A. I don't recall that document, I'm very
9	familiar with, generally. And in the last two
10	years, I likely have not read it cover to cover.
11	But I think at some prior point, I did. But I don't
12	recall exactly when that is.
13	Q. Okay. And there is there is also
14	Exhibit 1032. And this is "RFC 959 File Transfer
15	Protocol (FTP)," dated October 1985.
16	Within the last two years, did you read
17	that document, cover to cover? Front and back. The
18	entire document.
19	A. Again, this is similar to my previous
20	answer. I don't think I read it, cover to cover, in
21	the past years, but I'm familiar with it. And I'm
22	pretty sure that I have read it, cover to cover, at
23	some point. But before two years ago.
24	Q. Okay. Exhibit 1033 is U.S. Patent
25	No. 5,774,670, to Montulli M-O-N-T-U-L-L-I. Have

1	you reviewed that document in its entirety, from
2	cover to cover, within the last two years?
3	A. I can't recall which patent that is. Is
4	that about cookies?
5	Q. It looks like it's a reference to content
6	delivery networks. It's "Content delivery networks
7	developed by the late 1990s provided content
8	including streaming media via distributed network
9	servers."
10	And it's that exhibit.
11	A. Yeah. I think I'd have to look at that
12	document to give you a better answer. I don't
13	recall which one it is, off the top of my head.
14	Q. Okay. Exhibit 1034 is "RFC 1866
15	Hypertext Markup Language 2.0," dated 1995. Within
16	the last two years, have you reviewed that exhibit,
17	cover to cover? Or the entire exhibit.
18	A. Probably not. But I'm pretty familiar
19	with that, and I likely have reviewed most, or all
20	of that in the past.
21	Q. With regards to this is Exhibit 1035,
22	"RFC 1738 Uniform Resource Locators (URL)," dated
23	1994.
24	Have you reviewed that document, cover to
25	cover, in its entirety in the last two years?

1	A. Probably not in the last two years. But I
2	have, at some point in the past. That's another
3	document I'm very familiar with.
4	Q. Have you Exhibit 1036. And it's
5	entitled it's by Katherine Gallagher and
6	Jeffrey Parsons. "A Framework for Targeting Banner
7	Advertisements on the Internet," dated 1997.
8	Have you reviewed that document in its
9	entirety, in the last two years?
10	A. It's possible that I have, but I don't
11	I don't have that specific recollection. But that
12	that document does sound very familiar.
13	Q. Exhibit 1037 is a "PR Newswire
14	Association, 'The New York Times on the Web Creates
15	New Online Marketing Standard; Demographic Data from
16	1.7 million Registrants Enables Precise Advertiser
17	Targeting.'" Dated July 14th 1997.
18	Have you read and reviewed that document
19	in its entirety, from cover to cover, within the
20	past two years?
21	A. I think it's likely that I did. I just
22	don't have a specific recollection of when it was.
23	Q. All right. Exhibit 1038 is by Herhold
24	H-E-R-H-O-L-D S. And the title, in quotes, "Web
25	Effort Aims at Tailoring Pitches to the Right

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Henry Houh
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1	People." And it's from the Philadelphia Inquirer,
2	dated February 27th 1997.
3	Within the last two years, have you
4	reviewed that document, cover to cover, in its
5	entirety?
6	A. I mean, I can't say for sure. I don't
7	I don't recall that specific document, at the
8	moment.
9	Q. Right. Exhibit 1043 is "RFC 1580 Guide
10	to Network Resource Tools," dated March 1994.
11	Within the last two years, have you read that
12	document, cover to cover, in its entirety?
13	A. I don't recall, one way or the other, for
14	that document.
15	Q. Exhibit 1054 is by Philip Greenspun
16	G-R-E-E-N-S-P-U-N. And it's entitled, "Database
17	Backed Websites: The Thinking Person's Guide to Web
18	Publishing."
19	Within the last two years, have you read
20	that document in its entirety, cover to cover?
21	A. Likely not. But I've had that book since
22	he gave it to me. So I'm sure I read portions of
23	it. I can't recall sitting down, reading the book,
24	cover to cover, in one go.
25	Q. In the last two years?

1 Certainly not in the last two years, if I Α. 2 did. 3 Q. Okay. Do you believe you've read that 4 book, you know, at different times in the last two 5 years, so the total -- you read the total book in the last two years? This is the Philip -- the 6 Philip Greenspun book. 7 8 Α. Probably not. No. It probably was before 9 two years ago. 10 Right. Exhibit 1055 is entitled "Database 0. 11 Management Systems, Third Edition." Within the last 12 two years, have you read that document, in its 13 entirety, cover to cover? 14 I don't recall about that, specifically. Α. 15 But if it's like a thousand-page book, or something 16 like that, I probably wouldn't have read it, cover 17 to cover. 18 Okay. And, just for the record, the --Ο. 19 what I was reading off of before -- the exhibits 20 that I was reading off of before, were in the 21 petition for IPR for the '887 case. The '887 Patent 22 case, which is the IPR 308. 23 Okay. Now, I'm reading off of the IPR 24 that's for the 360 patent; which is the IPR 265 --25 ending in 265.

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1	And there is an exhibit 1019, which is,
2	"Portions of Communication and Computing for
3	Distributed Multimedia Systems by Guojuin Lu."
4	G-U-O-J-U-N. New word, L-U.
5	I think the "portions" is probably you're
6	just saying Hulu's just saying its portion. So
7	the book is probably, "Communication and Computing
8	for Distributed Multimedia Systems."
9	Have you read that document in its
10	entirety, cover to cover, in the last two years?
11	A. I don't have a recollection, one way or
12	the other. I mean, if you show me that document, I
13	might be able to give you a better answer. But
14	that's that's sitting here, as I remember right
15	now.
16	Q. Okay. And if I go to Exhibit 1022, is
17	entitled "The Tech, 'MIT Students Read Profit from
18	soaring Akamai IPO.'" Dated November 2nd 1999.
19	Within the last two years, have you
20	reviewed that document in its entirety, from cover
21	to cover?
22	A. If you're referring to the whole issue of
23	The Tech, I probably not. But if you're
24	referring to that particular article, I it's
25	likely.

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1	Q. Okay. Exhibit 1023 is, "Resource
2	ReSerVation Protocol (RSVP) Version 1 Functional
3	Specification." Dated September 1997.
4	In the last two years, have you reviewed
5	that document, cover to cover, in its entirety?
6	A. I don't have a recollection of doing that.
7	I don't think that I did for that particular
8	document. But I was familiar with it, from before.
9	Q. Okay. Exhibit 1024 is entitled,
10	"Multimedia Servers" by D. Ditaram, and A. Dan. And
11	"Ditaram" is D-I-T-A-R-A-M; and then A, period, Dan.
12	Like D-A-N.
13	Do you recall that in the last two years,
14	you reviewed that document, cover to cover? In its
15	entirety.
16	A. I don't I don't recall that. I think
17	it's likely that I didn't, in the last two years.
18	Q. Exhibit 1039 is a document by D.P as
19	in Peter Brutzman B-R-U-T-Z-M-A-N, et al.,
20	"'MBone" letter M, and then "bone" "Provides
21	Audio and Video Across the Internet,'" in IEEE
22	Computer Volume 27, No. 4." Dated April 1994.
23	Within the last two years, have you
24	reviewed that document in its entirety, from cover
25	to cover?

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1	A. I mean it's possible that I have. I just
2	don't recall, sitting here right now.
3	Q. And then, there is a document,
4	Exhibit 1040, by K. Savetz K S-A-V-E-T-Z et
5	al., entitled, "MBone: "Multicasting Tomorrow's
6	Internet." And that was in the IDG Books Worldwide
7	Inc., dated 1996.
8	Within the last two years, did you review
9	that document, cover to cover, in its entirety?
10	A. I can't recall, specifically, what
11	document you're referring to. So it's hard for me
12	to answer. Unless you want to show me, then I could
13	probably give you a better answer.
14	Q. Exhibit 1041 is by S. Deering et al.,
15	entitled, "Host Groups: A Multicast Extension to
16	the Internet Protocol," in the IETF RFC 966, dated,
17	December 1985.
18	Within the last two years, have you
19	reviewed that document in its entirety, cover to
20	cover?
21	A. Probably not within the last two years,
22	but I'm generally pretty familiar with that. I
23	think I have reviewed it, cover to cover, before,
24	two years ago.
25	Q. Okay. Exhibit 1042, again by S. Deering,

1	entitled, "'Host Extensions for IP Multicasting,'
2	IETF RFC 1112 and STD0005," dated August 1989.
3	In the last two years, have you read this
4	document, or reviewed this document, in its
5	entirety, cover to cover?
6	A. I think you said "STD," as in the
7	letter "T." STU. But, yeah. I mean, that that
8	document, I'm generally familiar with. I probably
9	reviewed it before two years ago, though.
10	I don't think I would have reviewed it
11	within the last two years. Although it's possible.
12	Cover to cover, I mean. Yeah.
13	Q. Okay. Then I have Exhibit 1043, which is
14	"RFC 1580 Guide to Network Resource Tools," dated
15	March 1994. Within the last two years, have you
16	reviewed that document, cover to cover, in its
17	entirety?
18	A. Is that is that a duplicate of the one
19	you asked about? I just don't recall. I I can't
20	recall what I said. But that particular document, I
21	just don't recall which one it is right now.
22	Q. Okay. So RFC RFC 1580 Guide to
23	Network Resource Tools, that you don't have
24	you don't recall that document right now?
25	A. I don't have if you want to show me the

1	document, I could probably narrow down my answer a
2	little bit. But I can't think of which one that is,
3	at the moment.
4	Q. And then, Exhibit 1056 is computer
5	"Computer Hope, 'CDN.'" That's all I have. Do
6	you do you recall, within the last well,
7	within the last two years, have you reviewed that
8	document, cover to cover, in its entirety?
9	A. I mean, I can't recall which what
10	particular document that is. So, I can't I can't
11	say, one way or the other. But if you want to show
12	it to me, it would help me refresh my memory. I
13	could probably give you a better answer.
14	Q. Okay. 1057, Techopedia it's
15	"Techopedia, 'Content Delivery Network (CDN).'"
16	Dated November 27th 2012.
17	In the last in the last two years, have
18	you reviewed that document, cover to cover, in its
19	entirety?
20	A. You know, I can't recall which document
21	that is. If it's very short, then it's likely I may
22	have. But I again, I can't recall that
23	particular document. If you were to show me, I
24	think I could give you a better answer than that.
25	Q. Within the last two years, did you review

1	the Eyal Patent the '467 Patent that you opined
2	on, in your declarations? In its entirety, from
3	cover to cover?
4	A. Yes.
5	Q. All right. Within the within the last
6	two years, have you reviewed the Wiser Patent, which
7	is subject to your opinions, in its entirety, from
8	cover to cover?
9	A. Yes.
10	Q. What about in the last year?
11	A. Yes.
12	Q. And same question with Wiser Eyal. The
13	Eyal reference. The '467 Patent. Did you review it
14	from cover to cover, within the last year?
15	A. Yes.
16	Q. And then, there is U.S. Patent Publication
17	number, ending in seven publication number ending
18	in "703." And that's one of the Madison references
19	that you used in your reports.
20	Within the last year, have you reviewed
21	that reference, cover to cover, in its entirety?
22	A. There's a number of different Madisons. I
23	think if you're referring to one that I opined on,
24	then yes.
25	Q. Okay. You mean the one the one you

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1	opined on within the context of these four IPRs that
2	we're discussing here today?
3	A. Well, there is a Madison I mean, if you
4	could show me, I could give you a better answer.
5	There's a number of different Madisons, including
6	and then, other related Madisons, provisions, and
7	whatnot.
8	But, I mean, I believe I reviewed them
9	all, but I just I don't recall which specific one
10	this is you're asking about, off the top of my head.
11	Q. Right. So this is the Madison that I'm
12	talking about is the one that is the subject of your
13	opinions that you're here to testify to today. And
14	I believe there's only one Madison that you're here
15	to testify to, here today. There is no other.
16	A. There is a
17	Q. No.
18	A. There is a Madison that's used as a
19	reference in one of the challenged grounds, or more
20	than one of the grounds. But that one, I would have
21	reviewed in full, in the past year.
22	MR. BERG: Counsel, just so we
23	MR. CHARKOW: Yeah.
24	MR. BERG: are clear on the record.
25	Could you provide the whole the whole number for

1	that Madison reference you're referring to?
2	MR. CHARKOW: Yeah. Sure.
3	MR. BERG: I don't think one of the
4	Madison references, I don't think is an exhibit in
5	any of the IPRs at this that are at issue here.
6	So I just want to make sure that we're on the same
7	page.
8	MR. CHARKOW: Right. So one of the
9	Madison references is U.S. Patent Publication
10	No. 2004/0015703A1. That's one of them. And then
11	there's another Madison reference, which is
12	U.S. Patent Publication No. 2004/0083273A1.
13	That's another Madison. And
14	MR. BERG: Okay. So I could I could be
15	wrong. I'm double-checking now. But I don't
16	believe that first one that you listed is actually
17	an exhibit in the IPRs for today.
18	MR. CHARKOW: It's listed as an Exhibit in
19	the IPR petition for the '360 Patent. Exhibit 1007.
20	THE WITNESS: Well, what's the exhibit
21	number?
22	MR. BERG: Okay. Yeah. Yeah. You're
23	correct about that. Thank you.
24	THE WITNESS: What's the exhibit number
25	for that?

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1	MR. CHARKOW: So, the exhibit number is
2	sorry. We're not I'm not marking anything. I'm
3	just going through a document that has these exhibit
4	numbers. So
5	THE WITNESS: No. I know, but
6	MR. CHARKOW: Yeah.
7	THE WITNESS: I know you're not marking
8	them. I'm asking you, you know some of these
9	you referred to all a lot of the other ones by
10	exhibit number, like "1017;" "104;" whatever.
11	But the specific Madison. Doesn't that
12	have an exhibit number as well?
13	MR. CHARKOW: Yeah. I just said it.
14	1007.
15	THE WITNESS: 1007.
16	MR. CHARKOW: And that's the U.S. Patent
17	Publication number, ending in "703," which Hulu
18	refers to as the "Madison 703."
19	A. Well, I would have reviewed it in the past
20	year, but I believe a lot of the challenges are
21	based, I believe, on Exhibit 1053, which is another
22	Madison. Or 105-something.
23	Q. Yeah. There is a Madison 1051, which is
24	U.S. Patent Publication No. 2004/0083273. That's
25	another Madison that's listed.
1	A. Yeah. I mean, there's a number of
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2	Madisons. So it's kind of confusing. But if you
3	were to show me which I mean, you know, I believe
4	I've reviewed all the Madisons. But, you know,
5	again, it's hard to keep them all straight.
6	Q. Well, let me ask you this question. If
7	there's only these two Madisons, have you reviewed
8	both those Madison references in their entirety,
9	cover to cover?
10	A. If 1051 is the one that the challenged
11	grounds are based on, then I have reviewed that.
12	And I have reviewed 107 in the last year.
13	Q. Okay. And what about the there's a
14	number of provisional applications. So, with
15	regards to the Madison that ends in "703," which is
16	Exhibit 1007 oh, no. I take that back. Just
17	give me one minute.
18	All right. So, with regards to the
19	Madison 273, that's the subject of your opinion in
20	these cases, there was a provisional application,
21	along with Madison.
22	Did you review that provisional
23	application, from which Madison claims priority,
24	cover to cover, within the last year?
25	A. Yes.

1	
1	Q. Okay. So, U.S. Patent so, U.S. Patent
2	No. 6,760,916 this is the Holtz reference that
3	you opined on. Have you read that reference, cover
4	to cover, within the last year, in its entirety.
5	A. Yes. I believe I have.
6	Q. All right. You're aware that the patents
7	that you opined on in this case, claim priority to a
8	provisional application. Correct?
9	A. I believe well, I believe one of
10	them one of them so, in this case, you're
11	saying that the patent the challenged claims
12	the patents, claim priority to a provisional?
13	Q. Yes.
14	A. You know, I'm I believe I am aware
15	that, you know, the face of the patent shows
16	shows a number of documents, including a
17	provisional.
18	So, I believe that's true.
19	Q. Okay. And do you did you review that
20	provisional application, cover to cover? In the
21	last year? In its entirety?
22	A. I mean, it's possible I have. I don't
23	recall, specifically, which which particular
24	document that was.
25	Q. Okay. There's another reference that

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1	you I don't think I did this one already, but
2	there was another reference that you relied on to
3	Wiser.
4	And this was U.S. Patent No. 6,385,596.
5	Have you reviewed that reference within the last
6	year, cover to cover?
7	A. Yes.
8	Q. Okay. There is another reference that you
9	relied on to Chang et al., which is U.S. Patent
10	No. 6,715,126. Have you read that reviewed that
11	patent, cover to cover, within the last year?
12	A. Yes. I believe I have.
13	Q. Is there a reason you think you may not
14	have?
15	A. No. It's just, I don't because it's
16	part of the case, I generally review all of the
17	documents that I rely on, cover to cover.
18	Q. All right. So so, in Exhibit
19	Exhibit 1017 and this is a document referred to
20	as, "All about ASX files." Do you recall that
21	document?
22	A. Yes.
23	Q. Okay. And have you reviewed that
24	document, cover to cover, within the last year?
25	A. Yes.

1	Q. Okay. So, Exhibit 1044, it's to Wolfe et
2	al Wolfe is spelt W-O-L-F-E. U.S. Patent
3	No. 5,931,901.
4	Have you reviewed that document, cover to
5	cover, within the last year, in its entirety?
6	A. Yes.
7	Q. Okay. Another exhibit is 1045. And this
8	is to Angles A-N-G-L-E-S. U.S. Patent
9	No. 6,385,592.
10	Have you reviewed this document, cover to
11	cover, in its entirety, within the last year?
12	A. You know, that document, I'm familiar with
13	from the past. So, I have reviewed it, cover to
14	cover.
15	I don't recall if I did so, again, within
16	the last year.
17	Q. What about within the last two years?
18	A. Probably in the last two years. Yeah.
19	Q. Do you know if you reviewed the the
20	Angles Patent in preparing your declaration, and you
21	reviewed it, cover to cover, at that time?
22	A. Well
23	Q. Your declaration
24	A. Yeah. I don't I don't recall if I did,
25	but I had in the past. So I was generally quite

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1	familiar with it.
2	So, I don't recall the last time I read
3	it, cover to cover. But again, I have. It's come
4	up in a number of cases that I worked on. And I'm
5	sure that I have done that in the past.
6	Q. Okay. Not in not in preparing your
7	expert declarations in these four cases. Correct?
8	You haven't read it, cover to cover, in that in
9	that context, in preparation of your declarations?
10	A. I mean, it's possible I didn't. I don't
11	have a specific recollection. But again, I was
12	generally familiar with with that particular
13	reference already.
14	Q. Well well, let me ask you this. I
15	mean, it's it's 26 pages long. Do you I mean,
16	you said in previous depositions, you don't have a
17	photographic memory.
18	I'm assuming you don't you know, you
19	don't have full recollection of every word in a
20	26-page patent. Correct?
21	A. Yeah. That's true. I certainly wouldn't.
22	Q. Okay. And I have the same let me ask
23	you a question, Dr. Houh. Any of the documents that
24	you said that you reviewed in the past, but you
25	don't believe you reviewed in the last in the

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1	past two years, and that you're familiar with those
2	documents.
3	Again, you don't have a photographic
4	memory. You don't remember all the various portions
5	of those documents. Correct?
6	A. I think I've said that, numerous times.
7	But yeah. I don't I don't know, word for word,
8	the full document from memory. Any of those.
9	Q. So, even though you're sorry. You said
10	any of those? Or
11	A. I mean, I there's probably not a
12	document in this case where I remember, word for
13	word, of just from my from memory.
14	Q. Okay. So you could have put a document in
15	your report that you hadn't reviewed in the last two
16	years, that you do not remember every word of that
17	document. Correct?
18	A. Well, I mean I mean, I don't know
19	anyone who probably could do that. But there are
20	human limits. And I think maybe there are people
21	that are gifted enough to do remember every word of
22	something they cite to, that they've seen in the
23	past.
24	I've yet to meet that person.
25	Q. Okay. But it's not you?

1	1 A. It's not me.	
2	2 Q. So, Exhibit 1053 is a refer	ence by
3	3 McCanne. And it's U.S. Patent No. 6,	785,704. In
4	4 the last year, have you reviewed that	document,
5	5 cover to cover?	
6	6 A. Cane? I can't is that s	omething I
7	7 relied on as a as a reference in t	he
8	8 Q. Yeah.	
9	9 A. I can't remember which one	it is now.
10	0 Q. Yeah. The name	
11	1 A. I can't remember the docume	nt. Oh,
12	2 McCanne.	
13	3 Q. Okay.	
14	A. M-C-C-A-N-N-E. Okay. Yes.	Yes, I have.
15	5 It didn't pronounce it that way. I d	idn't recognize
16	6 your pronunciation.	
17	7 Q. Sorry about that. New York	er. Okay.
18	8 But so, this is to McCanne, you sa	id?
19	9 A. M-C-C-A-N-N-E? I	
20	0 Q. Yes.	
21	1 A. Yeah. Yeah; McCanne. I de	finitely I
22	2 definitely have reviewed that in the	last year. And
23	3 it's just that I	
24	4 Q. From cover to cover?	
25	5 A. I heard "McCain," and I'm t	hinking

1	M-C-C-A-I-N. And I didn't recognize that.
2	Q. And you reviewed the McCanne reference,
3	'704 Patent, cover to cover, within the last year,
4	in its entirety. Correct?
5	A. Yes.
6	Q. And then, there is another reference to
7	Goldszmidt G-O-L-D-S-Z-M-I-D-T et al.
8	U.S. Patent No. 6,195,680.
9	Have you reviewed this document in its
10	entirety, cover to cover, within the last year?
11	A. Yes.
12	Q. All right. Dr. Houh, you're not an
13	attorney. Correct?
14	A. That's correct.
15	Q. And you're not a patent agent?
16	A. I'm not a patent agent.
17	Q. And you're not an expert in law, or patent
18	law, for that matter?
19	A. No. I'm not an expert in the law or
20	patent law.
21	Q. Okay. So, your understanding of the legal
22	standards to apply to this case is based solely on
23	the various legal standards sections set forth in
24	your various declarations. Correct?
25	A. I mean, that's generally true, as

applicable to the particular declarations. 1 2 When you say it's generally true, what do 0. 3 you mean? 4 Α. Well, I mean, there are probably other understandings of law that I don't think that are 5 6 written up, that don't apply to this -- these cases. So, they wouldn't have been those legal sections. 7 But, for these particular cases, my 8 understanding of the law is -- is in the relevant 9 10 legal section -- legal -- legal sections in the 11 respective declarations. 12 Right. So, if there is -- this section of 0. 13 law that you put in your declarations, in these four 14 cases, that -- those standards of law are the only thing you relied on for these particular 15 16 declarations. Correct? 17 Α. Well, I hope that I would have -- I mean, generally -- what's in my declaration should be my 18 19 understanding of the law, and what I would have 20 relied on. 21 Okay. And your understanding with regard 0. 22 to obviousness -- the legal standard for 23 obviousness -- whatever was set forth in your 24 declarations, that's the standard you used for your 25 analysis. Correct?

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1	A. I mean, generally, that's true. I mean,
2	sometimes sometimes other like case law, I
3	refer to. And I don't know that I would have
4	reproduced those entire documents there.
5	But the general understanding is set forth
6	in the legal section, as I understood it from you
7	know, from the attorneys.
8	Q. Right. But that the standards that's
9	set forth in your declarations is the standard that
10	you applied in your declarations, with regard to
11	obviousness? Correct?
12	A. It would have been. That's correct.
13	MR. CHARKOW: So, why don't we take a
14	break? I just realized we've been going over an
15	hour now. So maybe it's a good time to take a
16	break.
17	Does that work for everybody?
18	MR. BERG: Yeah. That sounds good to me.
19	THE WITNESS: Sure. So
20	MR. CHARKOW: Okay.
21	THE VIDEOGRAPHER: Okay. The time is
22	11:58 a.m We are off the record.
23	(Short break.)
24	THE VIDEOGRAPHER: Okay. We are back on
25	the record, and the time is 12:11 p.m

1	BY MR. CHARKOW:
2	Q. Microsoft Windows Media Player was
3	publicly available and being used before July of
4	2000. Correct?
5	A. I believe that's generally correct.
6	Q. And Microsoft Windows Media Player was
7	publicly available and being used before
8	December 1999. Correct?
9	A. I believe that's true.
10	Q. Windows Media Player was publicly
11	available and being used by the mid-1990s. Correct?
12	A. I mean, that sounds about right. I don't
13	know I don't recall the exact date. Could have
14	been even earlier than that, but I don't recall for
15	sure.
16	Q. Well, latest, by the mid-1990s. Correct?
17	A. That sounds generally correct.
18	Q. In the 2000, 2001 time frame, not all
19	devices using Windows Media Player would receive an
20	ASX file. Correct?
21	A. I mean, I think there's a lot of
22	flexibility in Windows Media Player, as to what it's
23	receiving. So, I think it I think it's probably
24	the case that that there are ways to run Windows
25	Media Player without, you know, for example, by

1	opening an audio file directly, using Windows Media
2	Player.
3	Q. So, in the 2000, 2001 time frame, not all
4	devices using Windows Media Player would receive an
5	ASX file. Correct?
6	A. So, as I said, there's ways to use Windows
7	Media Player, by simply opening up audio files, like
8	one audio file directly. I believe that's totally
9	possible with Windows Media Player.
10	In which case, for that that instance
11	of playing the program, an ASX file ASX file
12	would not necessarily have been involved. But it's
13	possible to open an ASX file that has references
14	one one
15	Q. Dr. Houh, I'm going to strike that
16	response as I'm going to move to strike as
17	non-responsive. I asked you a very specific
18	question. Please listen to the question.
19	And I'm asking about I'm asking a
20	
	question about all devices. I just want an answer,
21	question about all devices. I just want an answer, yes or no.
21 22	
	yes or no.
22	yes or no. In the 2000, 2021 time frame, not all

1	A. I mean, I think it depends. Are you
2	thinking of specific devices? Can you be more
3	specific about which devices? Are you saying all
4	devices in the world, at the time?
5	Q. Yes. All devices using Windows Media
6	Player.
7	A. Was that a question?
8	Q. Yeah. You asked me a question. And I
9	gave you an answer.
10	A. Well, can you can you can you, you
11	know, repeat your question with that with that in
12	the question?
13	Q. In the 2000, 2001 time frame, not all
14	devices that used Windows Media Player, in the
15	entire world, would receive an ASX file?
16	MR. BERG: Objection to form.
17	A. Well, as I said before, you know, I think
18	it depends you know, if a particular user would
19	only use it to open one audio file at the time, and
20	play that audio file, then it's possible and
21	never never does otherwise.
22	You know, again, I can't give you a
23	definitive answer, because it's probabilistic. And
24	I could say probably, that there are likely people
25	who used Windows Media Player in that way. But, I

1 don't have a specific example. 2 But, I would say, probabilistically, 3 that's likely that some people used Windows Media 4 Player in a way that avoided the external opening of an ASX file. 5 In other words, those people were using a 6 0. Windows Media Player without receiving an ASX file. 7 8 Correct? 9 Objection to form. MR. BERG: 10 I mean, are you thinking of specific Α. 11 "those people?" Or the hypothetical "those people" 12 that are probabilistically likely, that I -- I mean, 13 as I said, I don't know a specific -- that person, 14 that you're referring to. 15 It's only, you know, a hypothetical 16 probabilistic person. 17 ο. Well, Dr. Houh, you're an expert in the field of streaming media. Correct? 18 I mean, you 19 testified to that before? 20 Α. I mean, I don't like to toot my own Yeah. 21 horn, generally, but, I mean, I would generally 22 agree to that. 23 Okay. So, and you were familiar with Ο. 24 Windows Media Player being used in the 2000, 2001 25 time frame. Correct?

1	A. Yeah. I would say I generally am
2	familiar.
3	Q. All right. So, let me ask you in another
4	way.
5	Were all devices that used Windows Media
6	Player in the 2000, 2001 time frame, receiving ASX
7	files?
8	A. I mean, so, you know, in order to
9	accurately answer that question, I'd have to go and
10	inventory ever single computer with Windows Media
11	Player, and then examine the behavior of every
12	single one.
13	I think that's pretty much impossible to
14	do. But I could answer probabilistically, knowing
15	some features of Windows Media Player, as I said
16	before, that it does have a capability to simply
17	open up and direct directly open a an audio
18	file without without requiring that it open
19	also use an ASX file to open that audio file.
20	But then, that that is just one
21	instance. And if the person if the hypothetical
22	person, or probabilistic person, never ever used
23	Windows Media Player in any other way, then and
24	then, that person would have avoided the use of
25	of an ASX file in their use of Windows Media Player.

But, again, I mean, that's something to
actually answer accurately, I would have to at
least find some user that did that, or and that
could take a while to actually to find some user
who only used it in that way.
Q. Okay. Well, Dr. Houh, did you use them in
that way, during that time period? In meaning that,
did you use were you aware that you were using a
Windows Media Player in the 2000, 2001 time frame,
where you did not use an ASX file? Your computer
did not use an ASX file.
A. I mean I mean, I have I have used
Windows Media Player with respect to playlists
before. But, you know, I don't recall, offhand,
whether it was specifically used in an ASX file or
some other file format. I just I don't recall.
But, it had the capability. And, you
know, if I putting myself back in that time
frame, you know, I'm aware of the capabilities in
that time frame. But I don't have specific
instances that I can recall, where it was it was
one way.
I know, for sure, that I used Windows
Media Player to open an audio file directly. And
that was the case. So, I know that was the case.

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1	But I can't say that that's the only way I ever used
2	it, because I used Windows Media Player in multiple
3	different ways.
4	And, of course, I can only I can only
5	give some estimates about what other people did,
6	because I actually, you know, haven't examined the
7	behavior of every person, and every device in the
8	world, that used Windows Media Player, to gauge or
9	log exactly how they used it over time.
10	Q. Right. Well, Dr. Houh, I'm not asking you
11	to while, I mean, it's kind of, not a reasonable
12	response to my answer, when I asked you, as an
13	expert in the field, if you you know, if you're
14	aware that Windows Media Players were being used
15	without ASX files. Or some did, or some didn't use
16	ASX files.
17	And for you to say you have to analyze
18	every product you know, every every customer's
19	device in the world, I'm asking you as an expert,
20	you have a general understanding of how Windows
21	Media was being used at the time.
22	So let me ask you this. You have a
23	general understanding, in the 2000, 2001 time frame,
24	of how Windows Media Player was being used.
25	Correct?

1	A. I have an understanding of how it could be
2	used. And, certainly, I think when you ask such a
3	broad question like that, without providing any more
4	specifics about which users, I can only answer
5	probabilistically, in terms of, you know, the
6	likelihood that that was that was true.
7	And, you know, it still is while it's
8	possible that it could be that a particular user
9	could, you know, use their Windows Media Player over
10	the life of their use of that computer, and avoid
11	using ASX files, I it's hard to gauge the
12	probability of that.
13	I certainly am aware that it's possible to
14	use Windows Media Player without opening an ASX file
15	directly. That is, by opening an audio file
16	directly. And I'm aware of that use case.
17	And now, you're asking me about every
18	other user, and every other computer, and all of
19	them. And I could only really answer
20	probabilistically.
21	You know, I don't have direct
22	Q. Right. So let's talk about
23	A to every user in the world
24	Q. Right.
25	A and all the use cases. And I don't

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Henry Houh
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1	know anyone that has, frankly that has that
2	knowledge.
3	Q. Right. So let's talk about the specific
4	use case that you referred to. That opening a media
5	file directly, using the Windows Media Player. You
6	said you, yourself, in that time frame, did that.
7	You opened you used the Windows Media
8	Player to open a media file directly. Correct?
9	A. Yeah. I mean only based on my
10	recollection. I don't have a direct memory, in that
11	time frame. I know that I used media player over
12	over the years.
13	And I've opened media files and, you know,
14	audio files, typically by double-clicking the audio
15	file which is associated with Windows Media Player.
16	And then, Windows Media Player would open and play
17	the file.
18	I just can't recall if that's the only
19	thing I ever did. I think it's not the only thing I
20	ever did. I did have playlists. And then
21	Q. Right. I didn't ask you for that,
22	Dr. Houh. I'm sorry. I didn't ask you about
23	playlist. I asked you very specifically, about the
24	specific use case that you mentioned.
25	And what we're talking about is opening a

1	media file directly. Yes or no strike that.
2	In the last 20 years, have you opened
3	media files directly, using Windows Media Player?
4	A. You know, probably, in almost most
5	likely, or almost certainly, I did in the last 20
6	years. I just don't have a direct recollection of a
7	specific instance. But I would say probably yes.
8	Q. Okay. And within the last 20 years, do
9	you think that others, based on your knowledge of
10	Windows Media Player and how it's used do you
11	believe others used Windows Media Player to open
12	media files, directly?
13	A. I would say most
14	MR. BERG: Objection to form.
15	A. I would say, most likely, yes. You know,
16	almost almost with certainty. But it's again,
17	it's probabilistic.
18	Q. All right.
19	A. I can't answer the question, because I
20	don't have that direct knowledge. But I can I
21	can gauge the likelihood, and I think it's very,
22	very highly likely that that's the case, that at
23	least one user directly opened an audio file, using
24	Windows Media Player.
25	Q. Well, at least one? Or you believe,

Н	enry	Но	uh

1 probabilistically, many users used the Windows Media 2 Player in the last 20 years, to open media files 3 directly? 4 MR. BERG: Objection to form. 5 Α. I mean, you know, the "probably" gets --6 gets higher, the more users are included in that probabilistic result. But, again, I don't have 7 direct knowledge of the -- what every possible user 8 9 of Windows Media Player is doing. 10 I'm only basing it on my knowledge of 11 Windows Media Player; its features; what happens 12 in -- in my experience; and some other factors. 13 But, basically, based on that, I'd say it's highly 14 likely that some people, at least once, have opened an audio file directly, and played it using Windows 15 16 Media Player. 17 But the question you asked is slightly Is that if they -- if they, through the 18 different. 19 life of their use of Windows Media Player, in a 20 specific time frame, you know, is that the only way 21 they used it. And that's much harder to --22 I didn't say -- Dr. Houh, I never said 0. 23 that. I never said "over the life." I just said 24 within the last 20 years, people have used Windows 25 Media Player to play media files directly, without

1	using ASX files. Correct?
2	A. You know, I mean, I think at least one
3	person has. And I think I probably have. So
4	but, again, I don't have direct knowledge I don't
5	have a direct recollection direct recollection of
6	doing that, in the last 20 years.
7	Q. Right. So, then
8	A. It probably and if people, like, have
9	probably done that at least once, and it's at least
10	one other person as well.
11	Q. Okay.
12	A. So, I mean, I think
13	Q. Okay. So you said probabilistically
14	you said probabilistically, it depends on the
15	size of the the number of you know, the number
16	of people out there.
17	You understand that millions and millions
18	of people use probably more than that; but
19	millions and millions of people use Windows Media
20	Player. Correct? Every year.
21	MR. BERG: Objection.
22	A. I mean, I it I mean, I don't have
23	direct knowledge of the numbers of people. But I
24	think, you know, it's probably likely, given my
25	knowledge of, you know, how to obtain Windows Media

1	Player. And and that it's I believe, still
2	default installed in most basic Windows systems.
3	I just haven't had I'm not a I'm
4	not, today, a regular user of Windows Media Player.
5	But I have used it in the past. So, I mean, it's
6	hard for me to say that it's still millions today.
7	I just can't say, one way or the other.
8	Q. So, sitting here today, as an expert in
9	this industry, in this particular field of streaming
10	media, you have no clue whether there's millions of
11	people that use Windows Media Player every year, for
12	the last 20 years?
13	A. Right.
14	Q. You have no opinion, one way or the other,
15	on that. Is that what you're saying?
16	MR. BERG: Objection to form.
17	A. I mean, it's probably pretty likely that
18	it's at least millions of people. But again, I
19	mean, I'm not I don't have privy to actual
20	numbers, and I haven't seen actual numbers or
21	reports.
22	And even reports that say there are
23	millions of people, they are based on estimates and
24	probabilistic sampling, and whatnot, as well.
25	So so, I mean, you're asking me to say,

1	with absolute certainty, which which I don't know
2	that anyone, except maybe, you know, people who can
3	directly access all the data of all those machines
4	can.
5	But, you know, it's I'm not denying
6	that it's that it's possible that it's still
7	millions of users today. But you asked about over
8	the 20 years, each year; you asked if it's millions
9	of users each year, over those 20 years?
10	I mean, I don't have direct knowledge of
11	that. I can only give you a probabilistic answer.
12	Q. Right. But that you said you're pretty
13	certain that at least one person used Windows Media
14	Player to play a media file directly, in the last 20
15	years.
16	Given the fact that you believe that it's
17	likely that there's millions of people, if you
18	even if you just add it up across the last 20 years,
19	that have used Windows Media Player, you would have
20	to admit that it's more than one person used Windows
21	Media Player to play media files directly. Correct?
22	A. Yeah. But, actually, when you describe
23	adding up, you can't add probabilities, in that
24	instance. There's a way to do the probabilistics
25	analysis. It's not simply saying, you know, there

1	is an "X" percent chance that one user uses it.
2	That's "N" users. There's "N" times "X" is a
3	probability.
4	That's not correct that's incorrect
5	probabilistic analysis.
6	Q. Okay. So let's do it year by year. If
7	there's let's take one year. Let's take in 2001.
8	Do you have any reason to believe that there weren't
9	at least a million people using Windows Media
10	Player, in the year 2001?
11	MR. BERG: Objection to form.
12	A. Yeah. I again, I haven't seen the
13	numbers. But just based on my experience and I
14	don't doubt that there were at least a million
15	Windows Media Player users.
16	Q. So, out of all those Windows Media Player
17	users, based on your statistical analysis that you
18	keep talking about, how many users do you believe
19	were well, let me ask you this question.
20	Would there be more than one user, out of
21	that million-plus users, that would use Windows
22	Media Player to play media files directly?
23	A. Well, I would say that's quite likely, if
24	not near certain, that at least one person, at least
25	one time, opened a media audio file with Windows

1	Media Player.
2	Q. Right. And do you believe that thousands
3	of people may have done that?
4	A. I think it's it's quite likely
5	MR. BERG: Objection to form.
6	THE WITNESS: that thousands of people
7	would have done that.
8	MR. BERG: Objection to form.
9	BY MR. CHARKOW:
10	Q. Do you think that tens of thousands do
11	you think that tens of thousands of people would
12	have done that, in the 2001 time frame?
13	MR. BERG: Objection to form.
14	A. Yeah. I mean, again, you know, I don't
15	have direct knowledge of tens of thousands. But
16	based on my my own use; and knowing that
17	sometimes, when Media Player is associated with
18	particular audio file types; and that when a user
19	double-clicks a particular file type that is
20	associated with Windows Media Player, that is an
21	audio type file, that Media Player Windows Media
22	Player would open, and then just start playing that
23	file.
24	That's that's my experience and my
25	understanding. And I think it's quite likely that

1	many people you know, tens of thousands of people
2	had those settings.
3	Again, I don't have direct knowledge. I
4	just think that, you know, based on my experience,
5	and the probability is almost near certain that it's
6	probably at least 10,000 people.
7	But, again, you know, you're asking for
8	absolute certainty answers. And I'm just saying
9	that I'm telling you what my opinion's based on.
10	That it's more probabilistic.
11	And I don't know that you know, I don't
12	have access to the data that could give me that
13	could where I could make a certain determination.
14	But I think that probabilistically, at
15	least for tens of thousands of users, it's
16	probably it's probably near certain that at least
17	10,000 users, each at least once, double-clicked an
18	audio file and had a play with Windows Media Player.
19	Q. What about hundreds of thousands of users?
20	A. Again, I think, you know, with hundreds of
21	thousands, I think it's probably pretty likely as
22	well. I just yeah. I mean, with hundreds of
23	thousands of users, I think that sounds reasonable
24	to say that it's still, you know, probably near
25	certain, probabilistically.

1	Q. Millions of users?
2	MR. BERG: Objection to form.
3	A. I mean, I think I think you know, I
4	think I'd have to think about that and pull numbers
5	for you, starting around this level.
6	Because it depends on the market share.
7	How many people installed some other player that
8	took over the file associations. You know, the
9	market share of different players.
10	And I you know, probably at that level,
11	I'd probably have to do some research to give you a
12	better, more accurate answer.
13	Q. Okay. In the 2000, 2001 time frame, just
т.Э	Q. Okay. III che 2000, 2001 cime ilame, jusc
14	because a computer is using Windows Media Player
14	because a computer is using Windows Media Player
14 15	because a computer is using Windows Media Player does not mean that the computer is using an ASX
14 15 16	because a computer is using Windows Media Player does not mean that the computer is using an ASX file. Correct?
14 15 16 17	because a computer is using Windows Media Player does not mean that the computer is using an ASX file. Correct? MR. BERG: Objection to form.
<ul> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> </ul>	<pre>because a computer is using Windows Media Player does not mean that the computer is using an ASX file. Correct? MR. BERG: Objection to form. A. Well, I mean I mean, certainly, Windows</pre>
<ol> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> </ol>	<pre>because a computer is using Windows Media Player does not mean that the computer is using an ASX file. Correct? MR. BERG: Objection to form. A. Well, I mean I mean, certainly, Windows Media Player has had the capability to open those</pre>
<ol> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> </ol>	<pre>because a computer is using Windows Media Player does not mean that the computer is using an ASX file. Correct?</pre>
<ol> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> </ol>	<pre>because a computer is using Windows Media Player does not mean that the computer is using an ASX file. Correct?</pre>
<ol> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> </ol>	<pre>because a computer is using Windows Media Player does not mean that the computer is using an ASX file. Correct?</pre>

1	and that file is an audio file, and that file just
2	plays.
3	I mean, I think you'd have to, you know,
4	be a little more specific as to what the users are
5	doing in their actions.
6	Q. Dr. Houh, I just asked a simple question.
7	Regardless of what the user is doing. So, I want
8	you to assume that it doesn't make a difference how
9	they are using. Just assume that the users are
10	using a Windows Media Player.
11	In the 2000, 2001 time frame, just because
12	a computer is using Windows Media Player, does not
13	mean that that computer is using an ASX file.
14	Correct? Or incorrect?
15	MR. BERG: Objection to form.
16	A. Well, I mean I mean, I think that same
17	statement could be applied to any feature of of
18	Windows Media Player.
19	So, the feature I just told you, where you
20	double-click and Windows Media Player plays that
21	audio file, I think it's it's true for all
22	features.
23	So, it's not specific to whether it's
24	using ASX files. It's because Windows Media Player
25	can be used in many different ways, that many of

1	these features, just because you tell me you're
2	using Windows Media Player, doesn't necessarily mean
3	that that any particular feature of Windows Media
4	Player is being used.
5	So, I think it's just as equally true for
6	the question you asked, as for the case where a
7	user users are using, you know, other features of
8	Windows Media Player.
9	Q. Okay. I'm just curious about the I'm
10	not curious about any feature, Dr. Houh. I'm just
11	curious about ASX files. So, take every other
12	feature out of my answer. I'm not asking about any
13	other feature.
14	Please answer the question of, in the
15	2000, 2001 time frame, just because a computer is
16	using Windows Media Player, does not mean that
17	computer is using an AS file
18	MR. BERG: Objection.
19	A. I think I
20	Q. ASX file. Correct?
21	A. I think I already gave you an example of
22	this, where a user that has an audio file that's
23	associated with Windows Media Player, and they
24	double-click that audio file and it plays Windows
25	Media Player. I think I already said

1	Q. Dr. Houh that's not
2	A that user is not using the
3	Q. That's not my question
4	A ASX feature of Windows Media Player for
5	that particular instance of their use of Windows
6	Media Player.
7	Q. Right. And, Dr. Houh, I would appreciate
8	it if you answer my question. It's a
9	straightforward question. It's really a "yes" or
10	"no" question.
11	In the 2000 and in the 2000, 2001 time
12	frame, just because a computer is using a Windows
13	Media Player does not mean that that computer is
14	using an ASX file?
15	Yes or no? Can you answer yes or no?
16	A. I mean, I
17	MR. BERG: Objection to form.
18	A. I think I just gave you an example,
19	multiple times, of just
20	Q. I don't want
21	A what I was talking about.
22	Q an example, Dr. Houh.
23	A. Which is which is, in that particular
24	case
25	Q. I just want an answer

1	A that instance use of Windows Media
2	Player, was not using ASX files. So I am not sure
3	why you know I'm trying to explain my answer.
4	And that's the explanation to my answer.
5	Q. Can you just answer my question with a
6	"yes" or "no"? And then explain your answer? I
7	just want to know if I'm saying a correct or
8	incorrect statement, Dr. Houh. That's all I want to
9	know.
10	So I'll ask it again. I'm happy for you
11	to expand upon your answer. I'd just like either
12	it's correct what I'm saying, or it's incorrect. If
13	it's correct what I'm saying, you know, please
14	expand. That's fine.
15	I just want to know, correct or incorrect.
16	And then you can expand upon it, all you want. In
17	the 2000
18	MR. BERG: Counsel, the witness can answer
19	the question as he sees
20	MR. CHARKOW: No speaking objections. I'm
21	sorry. There's no speaking objections. That, I'm
22	not going to accept. You have "objection, form," go
23	ahead. You are definitely trying to lead the
24	witness here. Okay?
25	MR. BERG: No. Counsel, you're being

1	argumentative and trying to prevent the witness from
2	answering the question
3	MR. CHARKOW: Sorry
4	MR. BERG: which he's done multiple
5	times.
6	MR. CHARKOW: Counsel, objection to form,
7	and that's it. Okay? I'll call this, I will
8	call the Board on. Because you are way out of line.
9	So let's just continue.
10	BY MR. CHARKOW:
11	Q. In the 2000, 2001 time frame, just because
12	a computer is using Windows Media Player does not
13	mean that the computer is using an ASX file.
14	Correct? Or incorrect?
15	And then explain your answer after that,
16	please.
17	-
	A. In the case in the case that I reviewed
18	
18 19	A. In the case in the case that I reviewed
	A. In the case in the case that I reviewed multiple times, where, in that just one instance of
19	A. In the case in the case that I reviewed multiple times, where, in that just one instance of use, that the user double-clicks an ASX file, and
19 20	A. In the case in the case that I reviewed multiple times, where, in that just one instance of use, that the user double-clicks an ASX file, and and it's associated with Windows Media Player, and
19 20 21	A. In the case in the case that I reviewed multiple times, where, in that just one instance of use, that the user double-clicks an ASX file, and and it's associated with Windows Media Player, and it opens and it plays that Windows Media file.
19 20 21 22	A. In the case in the case that I reviewed multiple times, where, in that just one instance of use, that the user double-clicks an ASX file, and and it's associated with Windows Media Player, and it opens and it plays that Windows Media file. For that one instance, it wasn't it
19 20 21 22 23	A. In the case in the case that I reviewed multiple times, where, in that just one instance of use, that the user double-clicks an ASX file, and and it's associated with Windows Media Player, and it opens and it plays that Windows Media file. For that one instance, it wasn't it isn't using an ASX file. But, again, it's how much

1	probabilistic.
2	If you're asking for one instance of use,
3	I've already gave you given you at least one
4	instance of use, where a user doesn't, for that one
5	instance of use, use an ASX file.
6	But if you're asking for the behavior of
7	that user over over a period of a year, or two
8	years, in that time frame, and, you know, I think
9	that depends on other factors. So, it really
10	depends.
11	But at least for one instance of use, I've
12	already given the example where a particular user
13	isn't using the ASX file feature of Windows Media
14	Player.
15	Q. All right. Are there any other instances
16	when a user is not using an ASX file, when using a
17	Windows Media Player? Other than the one example
18	you just gave?
19	
19	A. I believe a Windows Media Player has the
20	
	A. I believe a Windows Media Player has the
20	A. I believe a Windows Media Player has the capability to scan your drive to find all the media.
20 21	A. I believe a Windows Media Player has the capability to scan your drive to find all the media. Although I can't say exactly when I think that
20 21 22	A. I believe a Windows Media Player has the capability to scan your drive to find all the media. Although I can't say exactly when I think that feature was available in Windows Media Player. But

1	user would be explicitly using some sort of ASX
2	file.
3	I think if the user simply got Windows
4	Media Player open, and is maybe clicking around and
5	changing the settings; doing various user interface
6	features, that don't involve an ASX file, then I
7	think there are numerous features that Windows Media
8	Player provides, that don't necessarily depend on
9	ASX files.
10	Q. Any other examples?
11	A. You know, I think Windows Media Player has
12	the capability to play video files as well. So I
13	think the same thing would apply to if the video
14	file association was with Windows Media Player, and
15	the user double-clicked a video file.
16	I think that's another case where for that
17	particular use instance, that one time, a user
18	wouldn't wouldn't have been using an ASX file.
19	Q. Any other examples?
20	A. I think Windows Media Player had the
21	capability to pull media from a url and play it. I
22	think that's I think that's correct. I don't
23	recall exactly what time frame that feature was
24	introduced.
25	But I think if if the url referred to a

1	direct audio file, or some sort of audio stream
2	file, that wasn't an ASX file, I think I think
3	that that case that's another potential case
4	where an ASX file isn't necessarily used in for
5	that feature, in that instance of use.
6	Q. When you say "not necessarily used," you
7	mean not used in that instance?
8	A. Well, I mean
9	MR. BERG: Objection to form.
10	A. You know, I think it's possible to give it
11	a url that is an ASX file. So, I believe that was a
12	feature.
13	But but when I say that it's if it
14	were a url to direct audio or video file, then yeah.
15	It wouldn't have used ASX, explicitly, in that
16	instance.
17	Q. Okay. Any other examples where Windows
18	Media Player wouldn't use an ASX file?
19	A. You know, as I mentioned, these are
20	explicit external uses of accessing an ASX file.
21	You know, I'd have to do it's possible that those
22	internal representations are in some format that's
23	like ASX. I can't say that for sure.
24	But in terms of these answers, it's with
25	respect to the explicit type of file that the users
are accessing and opening, that I'm referring to.	
---	
And so, I mean, I'd have to think about	
it. But at least right now, I've gone through a	
number of features which I'm familiar with, and I	
can't really think of any more right here.	
Q. Okay. So you've now given about four	
features, or so, where ASX files aren't used.	
Correct?	
A. Yeah. Sure. That sounds about right.	
Q. Okay. So, isn't it true that, you know,	
just because a computer is using a Windows Media	
Player, does not mean that the computer is using an	
ASX file. Correct?	
MR. BERG: Objection to form.	
Q. One doesn't follow after the other,	
necessarily?	
A. Sorry. What doesn't follow after what?	
Could you repeat that, please?	
Q. Sure. The fact that a computer is using a	
Windows Media Player, it doesn't necessarily follow	
that the computer is using an ASX file. Correct?	
MR. BERG: Objection to form.	
A. So, for specific instances of use, in	
those situations, I mean, you know, they don't an	
external ASX file is not explicitly being used. But	

	-
1	if you're asking about the aggregate behavior of
2	people over an extended time period, it then depends
3	on some other factors.
4	But for those specific instances of use
5	the one time uses each time, invoking those
6	particular features that aren't specifically
7	referencing an ASX file, then, it's certainly
8	it's certainly not using an ASX file, explicitly,
9	for those features. For those particular instances
10	of use.
11	Q. Okay. In the 2000, 2001 time frame,
12	Windows Media Player could operate without using an
13	ASX file. Correct?
14	A. Well, I mean, I think that depends how
15	intertwined ASX files are with the Windows Media
16	Player. And if the developers took out any support
17	for ASX files, what's remaining, you know, would, by
18	definition, not be using ASX files.
19	Q. Let me ask the question again. In the
20	2000, 2001 time frame, a Windows Media Player could
21	operate without using an ASX file. Correct?
22	Meaning that it could you didn't have to have an
23	ASX file coming to the Windows Media Player, in
24	order for the Windows Media Player to operate.
25	Correct?

A. In terms of the external external
access to the ASX file, it's possible to avoid
opening the ASX file, but still use Windows Media
Player, for example, in the cases I gave, where an
audio file is associated the audio file type is
associated with Windows Media Player, and the user
double-clicks that. And that's happened to me
before.
Then, Windows Media Player opens the file
and begins to play it. I believe that's how it
works. I believe that's my experience as well.
And certainly, for that instance of use,
if I because the file wasn't an ASX file; it was
an audio file; then that in that instance of
use and in those instances of use where the users
did that, then they weren't using the external ASX
file.
And Windows Media Player wasn't opening an
external ASX file, in those particular use cases.
Q. You're saying "external ASX file." I'm
sorry. Is there some other ASX file? Is there
I'm just trying to figure it out. You keep using
"external ASX file." In these particular cases that
you're referring to, I'm just I just don't
understand.

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Henry Houh
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1	If you could explain why you keep saying
2	"external ASX file?"
3	A. Sure. Sure. So
4	Q. Actually, you know what? I withdraw the
5	question. You know what? I withdraw the question.
6	It doesn't make a difference.
7	Okay. So, the Windows Media Player was
8	publicly available and being used before ASX files.
9	Correct?
10	A. I mean, that sounds right. I just I
11	don't I don't recall every feature of or early
12	versions of Windows Media Player, and at what point
13	the support for ASX was introduced.
14	But, certainly, by the date of some of the
15	documents in this case, Windows Media Player did
16	have that capability.
17	Q. Right. But there was a time when Windows
18	Media Player did not have the capability to use ASX
19	files. Correct?
20	A. I don't have the whole road I don't
21	have the whole roadmap of Windows Media Player, and
22	the features that were introduced. But I think it's
23	probably likely at some point, early in its life.
24	But I am I think I refer you to kind of
25	the specifications of those early versions of

1 Windows Media Player. I just -- I just -- I don't 2 know when it was introduced. 3 Q. All right. 4 Α. And I can't say for sure, one way or the other. 5 A Windows Media Player works just fine 6 0. without using an ASX file. Correct? 7 For the specific instances --8 Α. Like, it can function -- it can 9 Ο. 10 function -- it can function without an ASX file. 11 Correct? 12 I mean, it can function without externally Α. 13 using and accessing an ASX file, such as in the 14 examples I gave you, where an audio file type is associated with Windows Media Player, and the user 15 16 only is -- double-clicks the audio file, and it 17 opens. 18 Certainly, the user has not used ASX 19 file -- I quess, you know, that user has not used 20 externally, explicitly, an ASX file. 21 Right. And when you -- you've been Q. 22 talking about users clicking on links, those -- in 23 your previous answers -- those links could be links 24 to streaming media. Correct? 25 Α. Well, what I've been referring to, when I

	-
1	say "clicking" or "double-clicking," it's on files.
2	And there could be links, by the way. I mean, it
3	could be that there need to be a further association
4	that the an audio player associated with the
5	browser is Windows Media Player.
6	But, in that case, I believe if the user
7	clicks the link that's an audio file, that that
8	the browser has associated with an external player,
9	and that external player is Windows Media Player,
10	then I think in that case, when a user clicks the
11	link on a web page that refers to the specific audio
12	file type, then Windows Media Player would open and
13	then play play that file.
14	I believe that's the case.
15	Q. Okay. But Windows Media Player, you know,
16	in the 2000, 2001 time frame, didn't just have the
17	ability to play audio files. It also played video
18	files. Correct?
19	A. I mean, that's my understanding. I
20	believe that's correct.
21	Q. So your answers all your answers,
22	previously, when you talked about audio files, is
23	really not limited to audio files. It could be
24	audio or video files. Correct?
25	A. I mean I think I was giving examples.

1	Not limiting examples.
2	Q. Right.
3	A. So, and I believe I did talk about video
4	files also, later. But, certainly, if the video
5	file type was associated by the browser, with the
6	specific application being Windows Media Player,
7	then I believe that, you know, if a user goes to a
8	web page, clicks a link that is of that file type,
9	then it would open with Windows Media Player.
10	And that's my understanding of how most
11	browsers worked with external players. And, you
12	know, Windows Media Player was just another external
13	player.
14	And that but it would have to be
15	associated that file type would have to be
16	associated with the external player that was Windows
17	Media Player.
18	And in that case, then, then clicking on a
19	link that was a video, or audio, would open the
20	appropriate external player to play the file, which
21	would be, in cases, Windows Media Player.
22	Q. Okay. And prior to well, strike that.
23	Windows Media Player allowed users to play
24	playlists in early 2000's in early 1990s.
25	Correct?

1	A. Yeah. I mean, I believe that's true.
2	Q. Okay. And you're aware that ASX files
3	didn't exist until later. Correct?
4	A. Again, I don't recall the exact date.
5	But, as I said earlier, I don't recall the exact
6	date ASX file format was introduced.
7	Q. Well, let me ask you this. If Windows
8	Media Player allowed users to play playlists on
9	their devices in the early '90s, and ASX files
10	didn't exist until the mid- to late '90s, isn't it
11	true that Windows Media Player, that I just
12	described, worked to play playlists without an ASX
13	file?
14	A. I mean, certainly, you know, the logic is
15	correct there, in that, again, since I don't know
16	exactly when ASX files are were introduced, I
17	know that the prior art by the time of the prior
18	art, they were known.
19	But, in the case where ASX files were
20	introduced, you know, after playlists in Windows
21	Media Player were introduced, then, by definition,
22	you know, that early version of Windows Media Player
23	couldn't have used ASX files, unless it accidently
24	used exactly what was going to be in the future,
25	become ASX files.

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Henry Houh
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1	And that's certainly possible if
2	Microsoft, itself, drove the standardization of ASX
3	files, based on
4	Q. Dr. Houh, you are just speculating.
5	A. Well, I'm
6	Q. You have no knowledge of that. You're
7	starting to speculate. You know, you don't know.
8	A. I mean, with respect to other standards,
9	that's often the way it goes. Is that, you know, a
10	lot of early web users
11	MR. CHARKOW: I'm going to I'm going to
12	move to strike as nonresponsive move to strike
13	that whole answer as nonresponsive.
14	BY MR. CHARKOW:
15	Q. So let me ask you again let me ask you
16	another way, Dr. Houh.
17	So, you're testifying here today, you have
18	no knowledge of when ASX files were first being used
19	with Microsoft Windows Media Player. Correct?
20	MR. BERG: Objection to form.
21	A. I mean, I don't recall I don't recall
22	if I've, you know, seen that somewhere. But
23	certainly, by the time the prior art references in
24	this case were there, ASX files were known and used,
25	and described.

1	And so, I think what I said was that, you
2	know, I don't know exactly when ASX files were
3	introduced. But I also it's possible and it
4	so happens with many standards, that people propose
5	a standard that's based on an existing
6	implementation.
7	And so
8	Q. Right. Dr. Houh
9	A it could be possible that
10	Q. I didn't I didn't ask that question,
11	Dr. Houh. That's not the question I asked. You're
12	answering your own question. I did not ask that
13	question.
14	MR. CHARKOW: I move to strike that answer
15	as nonresponsive.
16	BY MR. CHARKOW:
17	Q. Dr. Houh, if Windows Media Player was
18	available in the early 1990s, as you said, and able
19	to allow users to play playlists on their devices,
20	and ASX files were not invented, or known at the
21	time, or created at the time, you would agree that
22	Windows media servers of the early 1990s worked just
23	fine, to provide users with the ability to play
24	playlists. Correct? Without an ASX file.
25	MR. BERG: Objection to form.

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1	A. I mean, you know, in that hypothetical,
2	where, by definition, what it was using was not the
3	format that would eventually become ASX files, then
4	I would agree that in that that hypothetical
5	situation, that that version of Windows Media
6	Player, which was which is not using anything
7	that even could become even would become ASX
8	files, wasn't using that.
9	Q. And, just to be clear, you have no
10	knowledge of whether or not those early versions of
11	Microsoft Windows Media Player was using ASX files?
12	You don't know, one way or the other?
13	A. I mean, I don't know, one way or the
14	other, specifically.
15	Q. Okay. Okay. So, in the 2000, 2001 time
16	frame, what was the website?
17	MR. BERG: Objection to form.
18	A. Well, I mean, you're asking are you
19	you're not referring to any analysis I've done in
20	any of these these declarations; are you?
21	Q. You discussed websites in your
22	declaration. I'm asking you, in the 2000, 2001 time
23	frame, what was a website?
24	A. So, I'll refer you to my declaration. But
25	if you showed me, I could show you what I wrote

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Henry Houh
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about websites in my declaration, in the background 1 2 section. 3 0. Yeah. I -- Dr. Houh, you're an expert. 4 And particularly in that time frame, at the beginning of the deposition, you said you're an 5 expert in websites and web pages. 6 And so, I'm asking you, just in the 2000, 7 2001 time frame, what was a website? 8 9 Well, I mean --Α. 10 To your knowledge. 0. 11 -- if I wrote it in my declaration, that's Α. 12 what I -- would certainly be a website. As relevant 13 to the background of these cases. 14 I didn't --0. You know, I do recall writing about it. 15 Α. 16 I'd like to look at that. It's not that I can't 17 tell you. It's just that what I wrote up was 18 thoughtful and deliberate. And, you know, I'd like 19 to look at that. But I can just refer you to it. 20 That's my opinions about the background for websites. I do believe I have a section on that 21 22 in the background, and I'll just refer you there. 23 Yeah. Dr. Houh, you don't define what a ο. 24 website is. That's why I'm asking you the question. 25 In the 2000, 2001 time frame, what was a website?

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Henry Houh
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1	A. You know, I mean, are you asking me about
2	something I wrote in my declaration?
3	Q. I don't believe you provided the
4	question the answer what I'm asking for right
5	now, I don't believe it's in any of your
6	declarations.
7	A. Well, I
8	Q. So, is it relevant to your declarations?
9	Is it related to your declarations?
10	A. I mean, maybe you can show me
11	Q. Yeah. I just don't understand, if you're
12	an expert in the field, that you can't you can't
13	give me why what a website is.
14	I mean, it's you would agree that a
15	website is a pretty fundamental concept of what
16	you're an expert in the field of. Correct?
17	MR. BERG: Objection to form.
18	A. So, you know, you say I didn't say what a
19	website is. I don't recall, one way or the other.
20	But if you show me, I can look at it and then, you
21	know, give you a better answer.
22	Because if I did say something about it,
23	maybe you misinterpreted it or something? I just
24	don't want to
25	Q. Right. I don't want I don't want a

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1	better answer, Dr. Houh. I just want the answer
2	that you're going to give right now. Whatever you
3	answer is, that's good enough for me.
4	In the 2000, 2001 time frame, what was a
5	website? I just want to know. Sitting here today.
6	That's all I want to know. Sitting here today.
7	A. Well, I mean, generally speaking, I think
8	a website, in that time frame you know, I don't
9	recall what I wrote in my declaration, but I don't
10	believe it's it would change anything.
11	If you look at a web page, a web page is
12	often served from a web server. And any references
13	to web page, or pages on a web server a
14	particular web server you know, generally would
15	be referred to as a website.
16	I mean, there are other there are other
17	examples such as, you know, sub-portions of large
18	websites. Sometimes people consider those websites.
19	So, I think it just it depends.
20	But, generally speaking, you know, one or
21	more web pages hosted by a web server, referred to
22	via a url, with its own domain name, typically, that
23	would be considered a website.
24	Q. So, it would
25	A. And so, I mean, that's just generally

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1	speaking. There are lots of examples. We can go
2	through them if you want. But all of them at least
3	have web pages that are served up through a web
4	server.
5	Q. All right. So, is it fair to say that in
6	the 2000, 2001 time frame, a website is a collection
7	of web pages and related content? Is that a fair
8	characterization?
9	A. Yeah. I mean, if web if web pages a
10	collection of web pages is one or more web pages, I
11	think zero web pages you know, the default in a
12	lot of web servers, if you have zero web pages
13	configured, it still gives you a website.
14	It just says sometimes it says, you
15	know, "This website has not been configured yet." I
16	wouldn't consider that a real website, because it's
17	just but some people may. I mean, it depends on
18	the situation.
19	But, generally speaking, the creator of a
20	website would have created some some of their own
21	content. Or the owner of a website. Which, at
22	least, would be on one web page.
23	And I would you know, again, it depends
24	on the situation. If we're talking about analyzing
25	some sort of patent, I think it would depend on what

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1	the patent specification discussed.
2	But, generally speaking, I think a
3	collection of one or more web pages, running off of
4	a web server, hosted by a server, you know, accessed
5	over the internet, through standard web protocols.
6	I think that would at least be considered
7	a website by most people.
8	Q. Okay. What about by you?
9	A. Yeah. I would generally consider that a
10	website. You know, there are there could be more
11	complex websites, of course. With lots of extensive
12	features.
13	But I would think that, you know you
14	know, someone you know, people think they have,
15	you know, their own website if they at least have
16	one page. And they kind of created the content.
17	I mean, some again, there are other
18	situations, for example, like, you know
19	Q. Dr. Houh Dr. Houh, you answered the
20	question. I just asked what about you. With a
21	"yes" or "no." You are now going on.
22	I don't know what you're answering now.
23	Because I just said, do you agree with what you just
24	said. You said some people may consider that a
25	website. And I said what about you. And it was

,	
1	just yes or no. I don't know I don't know why it
2	can't be answered in a very simple yes or no.
3	I just asked, you know, do you agree with
4	what you just said, that some people believe that to
5	be a website. So, you know so let me ask the
6	question again.
7	Is it fair to say, based on what you said
8	so far, that a website is a collection of web pages,
9	assuming that it's, you know, at least one web page
10	and related content?
11	A. I would say if it's hosted on a web
12	server, and that's accessed through standard web
13	protocols or a web browser, then I would consider
14	that a website.
15	Q. Okay. Thank you.
16	A. Generally speaking.
17	Q. In the 2000
18	A. Generally speaking.
19	Q. Okay. Thank you. In the 2000, 2000 time
20	frame sorry. Strike that.
21	In the 2000, 2001 time frame, what was a
22	web page?
23	A. In the 2000, 2001 time frame, generally
24	speaking, a web page is something that is written in
25	hypertext markup language. And it specifies a

1	content.
2	And then it it is that page is
3	placed on a web server, either that serves up the
4	page directly, or it could be a a templatized web
5	page with some variables that are preprocessed by
6	the web server.
7	But the result the resultant document
8	delivered from the web server to a requesting
9	browser, using the standard web protocols, would
10	generally be considered a web page.
11	Q. Okay. So is it fair to say, in the 2000,
12	2001 time frame, a hypertext document provided by a
13	website and displayed to a user in a web browser
14	would be considered a web page?
15	A. Well, I I think, generally speaking,
16	you would want to have that document served up,
17	using the hypertext transfer protocol, kind of
18	for and that's pretty much what all web servers
19	use. I mean, that's that is the protocol they
20	use.
21	So, I think, you know, additionally with
22	that document being transferred over HTTP, I think
23	that would generally be considered a web page. That
24	if the document were in HTML format.
25	Q. Okay. In the 2000, 2000 time strike

1	that.
2	In the 2000, 2001 time frame, what was a
3	home page?
4	A. Well, I think, you know so, I think
5	maybe it depends on the particular context. But,
6	for example, a company might have said they have a
7	home page, which is really their main their main
8	website, or the cover the cover the default
9	page when their website is is accessed.
10	So, a company might say that. An
11	individual might say that if they had a web page
12	they created, that either is hosted on their own
13	domain, which was probably not as likely. But, at
14	the time, you know, I think people considered, you
15	know, there are all sorts of content creation sites.
16	I don't recall, like when, at that time
17	frame, if a company like GeoCities was still around,
18	or MySpace. But some of these services allowed
19	users, you know, who registered with them to create
20	their own home pages. That's usually what they
21	they called them.
22	And that the user could kind of create
23	their own home web page home page their own
24	web page, that they could give a url out. But the
25	url wouldn't necessarily be hosted in its own

1	domain. That it might be a sub-portion of that
2	domain.
3	Q. Okay.
4	A. So, for example, you know,
5	GeoCities.com/Henry Houh, you know, might have been
6	something I could set up. And I think many users
7	would have considered that their home page.
8	Q. Okay. And that in the 2000, 2001 time
9	frame, there were a lot of companies and businesses
10	that had home pages. Correct?
11	It was like landing pages, where you would
12	click on you would put the url of the company
13	into a web browser, and you would be provided with,
14	you know, the first page the landing page of that
15	company or entity. Correct?
16	A. Yeah. That's correct. I want to add one
17	more thing to home page. Kind of what they could
18	be. As oftentimes, people have a browser that there
19	is a home button, and they can associate a
20	particular any web page with that home button.
21	And some users might think of that as
22	their home page, which is the page they get when
23	they open their browser. But, again, I think
24	it's it depends, you know, on the context.
25	So, while some people might think it's

1	their own page, I could set the home page in a
2	browser to be any page. And that would be some
3	people might think of that as their home page too.
4	Q. Okay.
5	A. But yeah.
6	Q. Okay. In the 2000, 2001 time frame, there
7	were advertisements on web pages themselves.
8	Correct? As you explained web pages.
9	A. Yeah. You know, in that time frame,
10	certainly, there were many websites, that when the
11	browser rendered the web page document that was
12	delivered, that there would be advertisements
13	appearing on the rendered page, in the web browser.
14	Q. Okay. And in the 2000, 2001 time frame,
15	there were advertisements on home pages. Correct?
16	A. Yeah. For the example of
17	Q. Right.
18	A. For example, the GeoCities type example.
19	Some of these hosting sites, they offer kind of a
20	free service, but one way they that some of those
21	services generate revenue is to put advertisements
22	on all of the user created pages. So, in that case,
23	that's certainly I'm aware of that situation in
24	that time frame.
25	And, certainly, today, if you if you

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Henry Houh
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1	look at Facebook, I mean, that's all it's all
2	advertising supported.
3	But, going back, there were similar sites
4	where the user created their own sites, and the host
5	of the page would as part of the way they
6	collected you know, made money, is to put
7	advertisements on your page. Even though the
8	creator of the page doesn't necessarily explicitly
9	want them.
10	And there were some services where the
11	users could pay pay for the service, and then
12	have their page be created ad-free.
13	Q. All right.
14	A. So I'm aware of those situations, for
15	example.
16	Q. So, in the 2000, 2001 time frame, when a
17	person went to a web page, the person may say
18	advertisements on the web page. Correct?
19	A. I mean, I certainly, in that time frame
20	there were some web pages that people would visit,
21	that did have ads. That's absolutely true.
22	Q. Some of those ads were banner ads.
23	Correct?
24	A. Banner ads was a form of ad used back
25	then. I think they were pretty common at that time.

[	
1	That was one form of advertisements.
2	I mean, companies on their own websites,
3	you know, those home pages typically didn't have ads
4	unless you consider, you know, informational banners
5	and links to you know, to their own products be
6	advertisements.
7	But it's but these were common on media
8	sites and these other, like early social media
9	sites, and whatnot.
10	Q. Okay. And in 2000, 2001 time frame, many
11	websites did not provide access to music or video
12	content. Correct? There were a lot of websites out
13	of there, that are just you know, they are
14	informational websites that did not provide music or
15	video content. Correct?
16	A. I mean, I believe that's the case. I
17	mean, there were a lot of websites back then. And,
18	certainly, you know, again, probabilistically, it's
19	likely that some did not have any links to audio.
20	I mean, some of these home pages, I mean,
21	there were features where audio would load in the
22	background and play. And some people did use those
23	features.
24	But I think some people found them
25	annoying enough that they wouldn't have done it on

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1	their own sites.
2	Q. Right. So, let me just I just want to
3	make it clear. In the 2000, 2001 time frame, there
4	were many websites that did not provide access to
5	music or video content. Correct? That did not
6	provide access.
7	A. I mean, I think that's likely true.
8	Again, I can't think of a specific example off the
9	top of my head.
10	Q. Well, what
11	A. But, I mean, now I think we've talked
12	about probabilities, where, you know, because I
13	don't know every single website, that I think it's
14	probably likely that at least some site, you know,
15	was did not did not provide links to, or or
16	automatically load audio in the background to play.
17	I mean, it depends, really. You would
18	have to go look at this website.
19	Q. Right.
20	A. And then, it would be after one looks at a
21	particular website, it's easier to make that
22	determination.
23	But then, to say whether that's for all
24	the websites, I think it's likely the case that
25	there were at least some that did not have links to,

1	or embed audio or video content.
2	Q. Right. Well you, yourself, I'm sure, have
3	used websites in the 2000, 2001 time frame, that had
4	no that did not provide access to music or video
5	content. Correct? Or any audio content.
6	A. I mean, it's difficult for me to think of
7	specific instances from 20 years ago. But, I mean,
8	it's probably likely that I used websites that
9	didn't have any embedded audio or video. I just
10	don't have a recollection.
11	I mean, I have I have my own website,
12	that I do provide links in my website to to pages
13	that do provide audio and video. It's just that my
14	own website my own web page that I set up, I
15	don't believe that I actually embedded audio or
16	video.
17	So, you know you know, I could
18	certainly use my own you can call it "home page,"
19	if you want, and I didn't embed audio or video in
20	it. But I did provide links to sites. And I may
21	have provided links to audio files. I just don't
22	recall.
23	Q. Okay. But
24	A. But, I know that I didn't embed audio or
25	video in my own in my own web page or pages.

1	Q. Right. In the 2000, 2001 time frame,
2	there were hundreds of thousands of websites that
3	did not provide any access to audio or video
4	content. Correct?
5	A. I mean, that you know, I'd have to
6	think about how many websites there were in that
7	time frame. Probably many, many more times than the
8	hundred thousands. But, I'd have to think about
9	that.
10	But I think, certainly, it's the case that
11	there are some websites that wouldn't have embedded
12	audio or video.
13	And then, you know, whether they provided
14	links to audio or video is a little harder, because
15	they don't control the content directly when they
16	link to some other website.
17	Q. All right.
18	A. They don't control the content on any
19	other website.
20	Q. Right.
21	A. But they could control the content on
22	their own website. And I think, you know, whether
23	it's hundreds of thousands, I can't say for sure.
24	I'd have to do a bunch of, you know, research. And
25	then and then the answer would probably be,

1 again, probabilistic. 2 But I think at least some websites not 3 having embedded audio and video is probably quite 4 likely, if not near certain. Tens of thousands? 5 ο. 6 I mean, I think it's probably Α. Yeah. pretty likely that tens of thousands didn't have 7 embedded audio or video on their web pages, that 8 were part of their website. 9 10 Is your answer the same with regard to, 0. 11 instead of embedded streaming audio and video -- or 12 video? 13 Α. Well, I mean that, "embedded" being that 14 there's an audio -- audio or video incorporated into 15 the websites. 16 Much like if you visit a new site today, 17 like -- that there are videos that are part of the web pages; that some begin to play when you visit 18 the page that the video's on. 19 20 0. Right. 21 Some, you actually have to click to start. Α. 22 But there are numerous examples today, where that's 23 the case. And that's what I mean. Is that what I'm 24 talking about is that, you know, there might be an 25 embedded player, that if you click to play, that it

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1	plays the audio file.
2	But that player is actually part of the
3	particular web page, or a video player is part of
4	the particular web page. And it's loaded when the
5	web page is loaded.
6	And the video may or may not start; or the
7	audio may or may not start automatically, but
8	certainly, today, that's the case. And I still mean
9	the same thing when I'm thinking about 2000, 2001,
10	when I'm thinking about embedding audio or video on
11	a particular web page.
12	Q. Yeah. Put aside embedding audio and video
13	on a web page. So now, let's talk about a link on a
14	web page that would allow you to download audio or
15	video; or to stream audio or video.
16	There were tens of thousands of websites
17	in the 2000, 2001 time frame, that did not allow
18	users to do that. Did not have that capability, or
19	did not offer that service to users. Correct?
20	A. Well, I mean, I think it depends on what
21	you mean by "have the capability." I mean, people
22	who control the websites, they have the capability
23	
	to link you know, to download audio or video.
24	to link you know, to download audio or video. Q. Right.

1 actually do it, that's a different question on 2 whether --3 Q. Yeah. 4 Α. -- they have the capability to do it. 5 Q. Yes. Whether they do it. 6 Whether they do it. Okay. Α. 7 Q. All right. So --So, I mean, I think it's likely that some 8 Α. 9 people can put together a website without, you know, 10 having any direct links to download or stream video. 11 You know, I -- I think that may be -- that 12 would have to be something -- you know, to give you 13 specific numbers, I don't think I could do that -- I 14 can't do that off the top of my head. Even probabilistically, I don't think. I think that's --15 16 it's more difficult. 17 You have to analyze every link on a 18 particular website and see what it points to. 19 In the 2000, 2001 time frame, Right. 0. 20 there were many websites that did not provide 21 streaming media content; whether that was audio or 22 video. Correct? 23 Yeah. I mean, that's guite likely to be Α. 24 true. Because, you know -- yeah, I mean, I think 25 that's -- that's guite likely to be true.

Because -- there were at least some sites that 1 2 didn't provide the ability to stream audio or video. 3 Would you put it at 10,000 sites that 0. 4 didn't provide audio or video streaming downloading --5 6 Α. I mean, it seems ---- in the 2000, 2001 time frame? 7 Q. I mean, it seems pretty likely to me that 8 Α. 9 there are at least 10,000 sites that didn't have 10 that capability in that time frame. That seems 11 pretty reasonable. 12 What about 50,000 sites? 0. 13 Α. If you're -- if you're asking if these 14 sites actually did it, or rather, that -- I mean, 15 the capability was there that they could do it. I 16 mean, there were --17 0. I did not --18 -- there were numerous types of Α. 19 streaming --20 Dr. Houh, I'm sorry. We were talking 0. about "did not." We said that in the 2000 and 21 22 2001 -- 2000 and 2001 time frame, many websites -and I gave you the example of 50,000 websites, at 23 24 least -- did not provide either downloadable or 25 streaming audio or video content. Correct?

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1	A. I mean, that seems quite likely to be
2	true. Again, it's all based on my you know, I
3	don't have the numbers. I haven't done, you know,
4	an inventory of exactly that.
5	But that number you said doesn't seem
6	unreasonable. It seems pretty reasonable that it's
7	at least that many that didn't provide those
8	capabilities.
9	Q. In the 2000, 2001 time frame, there were
10	numerous ways to implement targeted advertising.
11	Correct?
12	MR. BERG: Objection to form.
13	A. You know, I'm aware of several companies
14	and methods, at the time, to provide targeted
15	advertisement. So, I think, generally, it's true
16	that at that time frame, there wasn't only exactly
17	one way
18	Q. Right.
19	A to provide targeted advertisements.
20	Q. How many ways, to your knowledge, do you
21	think there were to provide targeted advertising in
22	the 2000, 2001 time frame?
23	A. I mean, I think it depends on how many
24	what you mean. Like if you mean like like
25	slight variance on the method? Or, you know I

1	mean, generally speaking, there are some ways that
2	people do it. They share a lot of commonalities.
3	But the specifics may be very, very different.
4	So, if if you're counting each of the
5	ones where any of the specifics are slightly
6	different, I think there can be a lot of different
7	ways that are possible.
8	Q. When you say a lot of different ways, how
9	much different ways are you talking about? Dozens?
10	Hundreds? Thousands?
11	A. I mean, certainly, if you if you look
12	at permutations of specific things, that things
13	could be done slightly differently, permuting some
14	use of specific parameters in the process. Then,
15	mathematically, that does blow up.
16	But many people typically, you know,
17	use similar parameters. And, you know, in various
18	parts of the process, for generating and delivering
19	targeted advertisements.
20	So, it's hard to say. Because, you know,
21	while the math the math shows that there can be a
22	lot more, it's probably likely that the actual
23	number of ways are actually fewer than the whole
24	possible universe of ways.
25	So, I mean, I think that's

1	Q. What
2	A. It's hard to say. I mean, if you if
3	you want to look at various different methods, you
4	know, we can probably agree as to whether they are
5	different enough. But I think it would take some
6	analysis of those particular methods.
7	Q. All right. What is the possible universe
8	of ways? You just mentioned possible universe of
9	ways. How many would those be?
10	A. Well, you know, for example you know,
11	so, there can be various number of factors that
12	people look at, to generate targeted advertisements.
13	I mean, commonly used and known things
14	were kind of, you know, age or age group; or gender;
15	or, you know, past viewing history; past purchase
16	history.
17	And each of those things can be very
18	complex. Right? So so, you know, if people want
19	to be specific about targeting, you know, a
20	30-year-old from a 31-year-old, that's a possible
21	difference.
22	But, you know, people may not they may
23	want to be that specific. They may not want to be
24	that specific. Right? If you're selling items for
25	a 31-year-old's birthday, then you might actually

1	want to be very specific.
2	And so, each of those possible parameters
3	leads to a myriad of different ways. So, if there
4	are "N" different parameters available, it depends
5	how many a particular system could choose.
6	They could choose all the way up to 'N."
7	They could choose half of them. They could choose
8	not to ignore the you know, the age year by
9	year age specific, in favor of broader age
10	categories.
11	So, I think there's a lot of
12	implementation choices. But, I mean, and there are
13	reasons there are good reasons to possibly use
14	some of these some of these implementations over
15	others.
16	So, I mean, mathematically, you know, if
17	you have "N "N" characteristics, that you want to
18	choose, you know, "A" out of, then, mathematically,
19	there's there's some number of different ways you
20	can choose three different things.
21	Don't quote me on this. I mean, I think
22	if you do "N choose A," that's about the right
23	number of different ways to pick three different
24	or "A" different characteristics.
25	And then, of course, there's there is

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the programming about how you actually use those age 1 2 chosen characteristics. 3 And so -- and so, again, what I'm saying 4 is that, you know, while the possible universe is 5 quite large, what people actually do, you know, they do things based on their particular application and 6 their needs. 7 8 And so --9 ο. Right. 10 Α. Yeah. 11 So, putting aside the specific Q. 12 characteristics and using that -- you know, you're 13 using that in your, you know, calculations, or 14 your -- how many ways were there to use those characteristics? 15 16 Meaning, you know, put the characteristics 17 in one group. And, to your knowledge, how many ways 18 were there to targeted -- implement targeted 19 advertising? 20 Α. Actually, I'm not really sure what you 21 mean by that. I mean, if you --22 Let me -- sorry. Let me ask it a Ο. 23 different way. 24 So, I'm saying put the individual 25 characteristics aside. Because we say, if I do it

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1	based on age; if I do it based on location; if I do
2	it based on, you know, previous history, or
3	something like that, that leads to a lot of
4	[Inaudible].
5	A. That's
6	Q. So, what I'm saying is, put that aside for
7	a second. Right? Assume that we're just talking
8	about how to implement a targeted advertising system
9	for you know, for all the characteristics.
10	Or, just fundamentally, how to you
11	know, the targeted advertising system that could use
12	various characteristics to provide targeted
13	advertising.
14	So, I'm saying with regard to just the way
15	of implementing a system a targeted advertising
16	system in the 2000, 2001 time frame, there were
17	numerous ways to implement targeted advertising
18	systems.
19	A. Well, I guess that depends on what you
20	mean by "numerous," and what possible variations you
21	would consider, or not consider a variation. I
22	mean, can you be more specific, please?
23	Q. Well, do you believe there were numerous
24	ways to implement targeted advertising systems in
25	the 2000, 2001 time frame?
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1	A. Well, I mean, I certainly reviewed a lot
2	of references in the targeted advertising space.
3	And, you know, I guess the question is, you know,
4	they all say they all have different words.
5	There might be some argument or debate
6	about whether, you know, reference "A" and reference
7	"B" are the same or different with respect to what
8	you're asking.
9	But but there were lots of different
10	proposed ways of doing targeted advertising. I
11	probably have reviewed hundreds of different
12	documents in this space. And that may be a small
13	part of the universe of documents proposing this.
14	And I think I think most of what I
15	reviewed was probably in, or around, or before that
16	time frame. So so, I guess it depends what you
17	mean, you know what will be considered different.
18	You know? Yeah.
19	I mean, there are a lot of there are
20	certainly lots of things proposed. And whether or
21	not you consider them different or not, I think we'd
22	have to go through the what you'd want to
23	compare, and we could maybe decide.
24	But, I mean, that kind of takes some time.
25	So if you have anything specific in mind, I'd be

1	happy to look at it.
2	Q. So, in the 2000, 2001 time frame, there
3	were numerous proposed ways to implement targeted
4	advertising systems. Correct?
5	A. Well, I mean, people wrote about these
6	ways. I suppose if you mean that when they write
7	about it, they are proposing it are you making a
8	distinction between actual working systems, at that
9	time, that were actually implemented?
10	Or are you is that the distinction when
11	the say something is proposed?
12	Q. I mean any proposal. Whether it's
13	<pre>implemented; or whether it's a university paper; a</pre>
14	research paper. I just mean, propose, you know,
15	generally.
16	A. Yeah. I mean, but a real system, I
17	wouldn't call "propose." If you are using a system,
18	I would call that I don't see why that's just
19	I mean, in an abstract sense, they might be
20	proposing, that's how they do it. But that's the
21	way they're actually doing it.
22	So, you know, I
23	Q. Okay. So, let's let's break it down.
24	Let's talk about proposed systems, versus actually
25	implemented systems.

1	In the 2000, 2001 time frame, there were
2	numerous proposed ways to implement targeted
3	advertising systems. Correct?
4	A. Yeah. I mean I mean, a lot of these
5	things are you know, were written up as and I
6	understand again, I'm not an expert on the law,
7	but my understanding is that a granted patent has a
8	presumption that it's enabled, which is that,
9	generally, like one could you know, a person of
10	ordinary skill in that field could build that.
11	So, that may be more than proposed. If
12	you're talking about proposed being like academic
13	paper, where someone writes up, you know, "Here's
14	how we think you should do something."
15	And maybe maybe they've done a series
16	of experiments. Maybe it doesn't become so proposed
17	if they've done some experiments, or they like,
18	you know, they've taken some data and run it through
19	it.
20	Maybe maybe that's still proposed. But
21	I guess it depends on what you mean what you mean
22	there the distinction between an academic paper
23	and a patent.
24	Q. By the 2000, 2001 time frame, there were
25	hundreds of thousands of articles, publications,

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1	patents, and other writings, related to implementing
2	targeted advertising systems. Correct?
3	A. I can't tell you whether the number is
4	that large. I mean, I don't I mean, I don't know
5	where you're getting this number, but it could be
6	possible. But it could be also smaller than that,
7	realistically.
8	But I can't tell you off the top of my
9	head.
10	Q. Tens of thousands?
11	A. I mean, maybe it's possible at that level.
12	It's still hard to say. I mean, it depends which
13	tens of thousands. Like, do you mean 10 or 20,000?
14	Or do you mean 80 or 90,000?
15	Q. Ten thousand.
16	A. I mean, that seems reasonable. Again, I
17	don't I don't you know, I've seen, again,
18	hundreds of advertisement targeted advertising
19	references. It's probably, you know, a small subset
20	of everything that some people might consider
21	targeted advertising.
22	I mean, it's possible it could be 10,000.
23	It's hard to it's hard to say for sure.
24	Q. Could it be possible that it would be
25	5,000? So, by the by the 2000, 2001 time frame,

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there was at least 5,000 papers, patents, articles
or other writings, related to ways to implement
targeted advertising systems?
A. I mean, I think that's more likely than
10,000. It's getting to be the realm of more
likely, perhaps. But it's still I mean, maybe
that feels about right.
It's still hard to say whether that's the
real number or not. I just can't say for sure.
Q. What about a thousand? A thousand
patents, papers, articles, or other publications or
writing, you know, that existed prior to the 2001,
2000 time frame, that discussed ways to implement
targeted advertising systems?
A. I mean, if you're considering like little
features of targeted advertise systems, and things
like that, I think at the level of a thousand, I
think it's quite likely that there were at least a
thousand, you know, different different papers,
or patents; or, you know, things like that, by that
time frame.
I think that's actually pretty likely.
But, again, I can't tell you the exact I can't
tell you the exact number. I just have to kind of

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1	experience, and what I what I believe I've, you
2	know, looked at, and things like that.
3	Q. How many systems that were in operation in
4	2000, 2001, were you aware of, that implemented
5	targeted advertising?
б	A. (No audible response.)
7	Q. So, I'm saying, sitting here today, your
8	knowledge of what was occurring in 2000, 2001.
9	A. You know, I think there were if we sat
10	here for enough time, I could probably come up with
11	a dozen or more.
12	But, I mean, I think that's probably about
13	what I could think of, or, you know, some number of
14	dozens, perhaps, that I could probably think of,
15	after giving it some thought.
16	You know, something around that. I
17	mean yeah.
18	Q. Okay. In the in the 2000, 2001 time
19	frame, there were numerous technologies that could
20	be used for inserting advertisements into a web
21	page. Correct?
22	MR. BERG: Objection to form.
23	A. I mean, I'm not sure what you mean by
24	"numerous technologies."
25	Q. Different ways of inserting advertisements

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1	into a web page, in the 2000, 2001 time frame.
2	Technical ways.
3	A. Do you mean technical ways of generating
4	the advertisement that would be inserted? Or
5	actually actually, like actual ways of putting
6	the advertisement on a web page and rendering it?
7	Q. Generating the advertisement for
8	insertion.
9	A. Yeah. I mean, you know, as we were
10	talking earlier, there are I'm aware that there
11	are lots of different parameters that can go into
12	this generation.
13	Are you considering all you know, the
14	technical deduction from parameters to is that
15	one technology? Or is that many technologies.
16	Q. Dr. Houh, I'm
17	A. What do you mean by the various
18	Q. I'm not considering each I'm not
19	considering each parameter each, you know, age;
20	and height; and, you know, location to be individual
21	parameters.
22	I'm saying systems that will use that
23	those characteristics to generate advertising that
24	are put on web pages.
25	A. You mean actual implemented systems?

1	Q. Let's start with implemented systems.
2	Yes.
3	A. Yeah. I'm still not sure what you would
4	consider "different." I mean, you know, once I
5	mean, I'm aware of different technologies. And
6	maybe we can, you know, go through them and I could
7	describe them, one by one.
8	And then, you could decide whether they
9	are different from each other, if that's what you
10	want to do.
11	Q. Well, just tell me how many you're aware
12	of. The numbers. Let's start with that, sitting
13	here right now. And, again, the 2000, 2001 time
14	frame.
15	A. Yeah. I mean, I'm not sure what you mean
16	by what's different. So I'm not I'm not really
17	sure how to how to, you know, give you an answer
18	to that. Even if I can think of, you know I
19	mean, I think I'd need to know more specifics about,
20	like what you think are different possible
21	differences.
22	Because the question's very abstract. I
23	don't I can't really think of how I would
24	approach that, just sitting here right now. I think
25	I'd need some time to think about it.

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1	Q. Well let's go with what you would think
2	would be different. How many different approaches
3	were there?
4	A. Well, I mean, certainly, there's one
5	approach, is that the website itself, you know
6	Q. Sorry, Dr. Houh. I didn't ask the I
7	didn't get specific. I just said, you know, how
8	many how many numbers. You know.
9	A. Well, you know, I kind of need to go
10	through the different ways I know to come up with a
11	number. I have to think about that. So
12	Q. All right.
13	MR. CHARKOW: Well, let me we're going
14	to be taking a break. So, I think it's probably
15	time to take a break. I think we said we would stop
16	about 1:30.
17	So maybe this is a good point to take a
18	break, and you could think about it over the break,
19	and we'll come back. Is this a good time to take a
20	break for you, Dr. Houh?
21	THE WITNESS: Sure.
22	MR. CHARKOW: Okay. Counsel, does this
23	work?
24	MR. BERG: Yeah. This time this time's
25	great. So, do we want to take like 30 minutes? Is

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1 that -- is that what you're thinking? 2 MR. CHARKOW: Yeah. Whatever works for 3 Dr. Houh. I mean, he is the witness. You know, I 4 want to make sure he has plenty of energy. THE WITNESS: Sure. How about 2:10 5 Eastern Time, we come back? It's a little more than 6 30 minutes. 7 8 MR. CHARKOW: Okay. 9 THE VIDEOGRAPHER: Okay. The time is 10 1:39 p.m.. We are off the record. 11 (Luncheon break.) 12 THE VIDEOGRAPHER: Okay. We are back on 13 the record. And the time is 2:12 p.m.. 14 MR. CHARKOW: Spencer, can you provide 15 Dr. Houh with Exhibit 1017, please? 16 BY MR. CHARKOW: 17 0. Dr. Houh, you've been provided with what's been previously marked as Exhibit 1017. 18 This --19 this is an Exhibit in all of the -- in all of the 20 IPRs that we've been discussing today, I believe. 21 Let me just double-check to make sure, 22 before I say that. 23 [Pause] 24 Sorry. I take that back. I think it's 25 just in the IPRs that are -- that are -- the IPRs

1 304 and 308. 2 And, Brad, if you could just confirm that 3 I got that right? 4 MR. BERG: Yeah. Let me double-check that and confirm. 5 So, I think it's an exhibit in all the 6 IPRs we're discussing today. But it's only used in 7 the ground, in a subset -- as a reference in the 8 9 grounds, in the subset of them. 10 MR. CHARKOW: Okay. That's probably what 11 I had. Okay. So, I believe it is Exhibit 1017, 12 that's been previously marked in all of the IPRs 13 that we are discussing today, which is 14 IPR2021-00265; 298; 304; and 308. 15 And, Brad, if you just confirm that it's 16 across -- I'm just looking at it too. Just confirm that it's across -- at least contained in all of the 17 18 reports. 19 MR. BERG: Yes. 20 MR. CHARKOW: Great. MR. BERG: Yes. I can confirm that. 21 22 MR. CHARKOW: Okay. 23 BY MR. CHARKOW: 24 0. All right. Dr. Houh, have you seen this exhibit before? 25

1	
1	A. Yes. I have.
2	Q. And Exhibit 1007 I'm sorry.
3	Exhibit 1017 is entitled, "All About ASX Files."
4	Correct?
5	A. I would agree with that. Yeah.
6	Q. And Exhibit 1017, entitled, "All About ASX
7	Files," discloses various functionalities that can
8	be incorporated into an ASX file. Correct?
9	A. I mean, I think, generally, I would agree.
10	Q. Exhibit 1017, entitled "All About ASX
11	Files," discloses various tags that can be
12	incorporated into an ASX file. Correct?
13	A. Do you have a what do you mean by
14	"tags?"
15	Q. So, if you go into the document, at page
16	six, there are there's a section on tags?
17	A. Yeah.
18	Q. Okay. So, I'm asking and I think that
19	section goes from page six to 11. And so, with that
20	in mind, Exhibit 1017, entitled "All About ASX
21	Files," discloses various tags that could be
22	incorporated into an ASX file. Correct?
23	A. Well, this section does list various
24	things the various tags. They are excerpts of
25	XML. You know, the examples.

1	Q. Right. And those various tags can be
2	incorporated into an ASX file. Correct?
3	A. I mean, generally, that's it's laying
4	out some examples of XML excerpts that can be
5	contained within an ASX file.
6	Q. And a programmer can use one, all, or some
7	of the functionalities disclosed in Exhibit 1017,
8	when creating an ASX file. Correct?
9	A. Well, I mean, I suppose a programmer can
10	choose which tags they can program to to be
11	returned in an ASX file, if the ASX file is
12	generated programmatically.
13	Q. Right. So, putting aside the tags for a
14	minute. So, the other sections and let's call
15	I think we I called them "functionalities," and I
16	think you've agreed with that.
17	A programmer can use one, all, or some of
18	the functionalities disclosed in Exhibit 1017, when
19	creating an ASX file. Whether that programmer is a
20	person, or it's a computer.
21	A. I mean, a computer that's that has a
22	program, isn't isn't making a conscious choice.
23	But if you refer if you're referring to a
24	programmer, when they write code, for example, that
25	generates an ASX file, they can they can they

1	can or, you know, the product managers can
2	decide, you know, what what possible tags to use
3	in various circumstances are.
4	And, oftentimes, the programmers are
5	following, you know, product specifications, and
б	whatnot.
7	Q. So, Dr. Houh, I'd like to focus on what
8	I've called the functionalities. Not the tags. So,
9	the functionalities that I'm referring to are, "File
10	or Clip Properties; Custom Graphics in the Windows
11	Media Player; Ad Insertion; Playlists; Server or
12	Protocol Rollover."
13	So, I would like to assume that those are
14	the functionalities that I'm talking about right
15	now. So, can we just make that assumption? That
16	those are functionalities?
17	A. I mean, if you want me to assume that they
18	are functionalities, I'll assume that they are
19	functionalities.
20	Q. Well, let me ask you, what would you call
21	those? We can use your language.
22	A. You know, I we can use the word
23	"functionalities." I'll understand what you mean.
24	Q. Okay. Great. So, a programmer can use
25	one, all, or some of the functionalities disclosed

1 in Exhibit 1017, when creating an ASX file. 2 Correct? 3 Α. I mean, to the extent some -- some don't conflict with each other, they could -- they could 4 5 use, you know, a some; or all; or one. 6 I mean, there is flexibility in generation of these ASX files. So, it's certainly possible, to 7 the extent they don't conflict, that -- or that they 8 9 preclude each other. 10 A lot of systems have features and functions which aren't intended to be used in 11 12 combination. So, to the extent that they aren't, 13 then, some subset of these could be used together. Right. One, all, or some. 14 0. To the extent that the features don't 15 Α. 16 conflict in some way. 17 ο. And the programmer can use one, all, or some of the tags disclosed in Exhibit 1017, when 18 19 creating an ASX file. Correct? 20 Α. I think, generally speaking, the tags can 21 be used, to the extent they don't conflict with each 22 other. 23 So --Q. 24 Α. Multiple tags can be used. 25 Right. Sorry. Let me just ask the Q.

1 question again. 2 A programmer can use one, all, or some of 3 the tags disclosed in Exhibit 1017, when creating an 4 ASX file. Correct? Objection to form. 5 MR. BERG: 6 Again, if the programmer is programming Α. the generation of the file according to some product 7 specification, and the product specification 8 9 specified either one, all or some, to the extent 10 that, you know, they don't conflict with each other, 11 you know, a programmer could program them. I mean, 12 they could program them if they did conflict, I 13 suppose. 14 But, the behavior wouldn't necessarily be 15 what was expected, depending on how the Media Player 16 handled it. 17 ο. Okay. So -- thank you, Dr. Houh. MR. CHARKOW: Giselle, just one thing. 18 19 The ASX, I don't know how clearly I'm saying it. So 20 it's Apple, Sam, Xavier. 21 THE COURT REPORTER: Yes. 22 BY MR. CHARKOW: 23 An ASX file can be implemented with or 0. 24 without clip properties. Correct? And I'm using 25 "clip properties" as used in the document,

1	Exhibit 1017.
2	[Witness perused document.]
3	A. I mean, are you referring to what the
4	document says on page seven of 12, about the entry
5	tag?
6	Q. Sorry, doctor. Just give me a second. I
7	have lost the document. Oh, there it is. Can you
8	re-ask the question, so I answer it?
9	A. Are you referring to what the document
10	says on page seven to eight, with respect to the
11	entry tag?
12	Q. No. I'm talking about what's on page
13	page two, where it says "File or Clip Properties."
14	Just that section.
15	A. Okay.
16	Q. It's page two to three. So let me ask the
17	question again.
18	An ASX file can be implemented with or
19	without clip properties, as shown in Exhibit 1017.
20	Correct?
21	A. So, you mean that the Media Player can be
22	implemented to not select properties to view file
23	information about the show or the clip that is
24	playing?
25	Q. Sure. Let's start there.

1	A. I mean, you know, the product people, or
2	the developers, can certainly code Windows Media
3	Player to to remove that that box of, you
4	know, select so, you know, it says here, "Select
5	properties to view file information about the show
6	or the clip that is playing."
7	I mean, I suppose that could be removed
8	from it. And there may be some functional elements
9	that still work fine, when that's removed. There
10	may be some other functional elements that are
11	becoming accessible.
12	But I think it would take, you know, more
13	detailed examination of Windows Media Player to
14	determine what what functions those might be, and
15	whether there are no other ways to access certain
16	properties.
17	Q. Well, I'm not asking about what's
18	happening on Windows Media Player. I'm asking about
19	the ASX file, itself, and the formation and creation
20	of that ASX file.
21	An ASX file can be implemented with or
22	without clip properties, as that is as clip
23	properties is described in Exhibit 1017. Correct?
24	A. Well, this this section does talk about
25	the clip properties, and it references individual

1	entry tags. And it gives an example here. But,
2	certainly, the entry tag was what I was asking about
3	in pages seven to eight.
4	But, you know, some of these elements, for
5	example, it might work fine without having a title,
6	but I'm not sure, without having a reference, what
7	might happen when there's no reference in the entry.
8	Doesn't think if that's the way to code
9	the where the content is, it doesn't seem like it
10	would be behave the way as expected, without that
11	information.
12	Q. Okay. Other than with regards to the
13	clip, could an ASX file be implemented with or
14	without clip properties? Other than the url of the
15	clip itself.
16	A. I mean, there's a way in the entry to have
17	an external reference. So, there is an alternative
18	way to describe an entry, without using the ref tag.
19	If you look at page eight, it shows the
20	entry rough tag. And with an entry that has no ref
21	element.
22	Q. Okay. So let me ask the question again.
23	An ASX file can be implemented, with or without clip
24	properties, as that term is used in Exhibit 1017.
25	Correct?

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Henry Houh
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 1
               Without which -- which clip properties?
          Α.
 2
     Are you referring to all of them as a whole?
 3
          Q.
               Yes. Let's start there.
 4
               [Witness perused document.]
 5
          Α.
               I mean, if an entry tag is empty of any
     additional information, I don't -- I don't think
 6
     this will result in any playback.
 7
               Okay. Assuming an entry tag is included,
 8
          0.
     can an ASX file be implemented, with or without clip
 9
10
     properties, other than an entry tag?
11
               I mean, it appears that other tags also
          Α.
12
     enable some sort of some action with respect to
13
     external content. Besides the entry taq.
14
               Does the ASX file require that property
          0.
15
     to -- or tag, to be able to be used by Windows Media
16
     Player?
17
          Α.
               Which -- which property or tag you're
18
     referring to now?
               The one that you just referred to.
19
          ο.
20
          Α.
               Oh.
                    I don't believe this is the document
21
     that says either way. But, I think the intent is
22
     that -- that this is -- this is not a statement that
23
     all these tags must be used.
24
               So, I think -- I think, generally, it's --
25
     these tags don't all have to be used, in every ASX
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Hulu vs.

1	file.
2	Q. An ASX file can be implemented with or
3	without file properties, as that term is used, in
4	Exhibit 1017. Correct?
5	A. Sorry. What was the question again,
6	please?
7	Q. Sure. An ASX file can be implemented with
8	or without file properties, as that term is used in
9	Exhibit 1017?
10	A. Well, the the file properties
11	referenced on page two, for example, the examples
12	given don't seem to necessarily be required. But
13	the document doesn't say, one way or the other,
14	whether it's required.
15	But, certainly, some of these examples
16	wouldn't seem to impact, you know, the playback.
17	Q. All right. So so, what you're saying
18	is that for an ASX file, some of those file
19	properties may be implemented. Some of them may not
20	be implemented. But it doesn't affect the ASX file?
21	It could be it could be implemented without
22	sorry. Take that back. Strike that.
23	An ASX file can be implemented with or
24	without various file properties. Correct?
25	A. I mean, it may affect the way behaviors

1	with respect to these file properties listed behave,
2	but it may not affect the playback of the entries.
3	Q. So you could still you would still have
4	an ASX file that could be used and work with Windows
5	Media Player, and omit one or more of those file
6	properties. Correct?
7	A. For the examples given on page two of this
8	document, it would strike me as that the lack of
9	those those items wouldn't necessarily affect the
10	playback behavior of the Windows Media Player, for
11	example.
12	Q. Well, beyond the examples on page two,
13	would any other examples of file properties affect
14	the ASX file's ability to be used to play back media
15	on a Windows Media Player?
16	A. I mean, I think that depends on the more
17	detailed specification. But, from this document,
18	it's silent on any other file property examples,
19	other than what I see listed on page two.
20	So, I think one would have to refer to
21	kind of the overall specification file document.
22	Q. Right. Are there any examples of file
23	properties on page three?
24	A. Well, when you say "file properties," I
25	think the way the document is using it, is with

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1	respect to the ASX file sorry, A ASX file
2	itself.
3	And that I don't see an example of the
4	of the file properties, of the type given on page
5	two, on page three.
6	Q. An ASX file can be implemented with or
7	without a playlist, as that term is used in
8	Exhibit 1017. Correct?
9	[Witness perused document.]
10	A. You know, if you're referring to how it's
11	used on page four to five, where it's talking about
12	a really basic, simple playlist "the most simple
13	playlist," it says that, I mean, it doesn't seem
14	to say there, that there is a requirement that every
15	ASX file has at least one entry.
16	But, if an ASX file didn't have any
17	entries entry tags it would seem to not be
18	implementing a main feature of of an ASX file.
19	MR. CHARKOW: I'm I'm striking that as
20	nonresponsive.
21	BY MR. CHARKOW:
22	Q. I didn't ask about main feature, Dr. Houh.
23	I just asked you very simply, an ASX file can be
24	implemented with or without a playlist. Correct?
25	Or incorrect?

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Henry Houh
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1	A. I mean, the spec may have more to say
2	about whether that would make it a valid ASX file,
3	or whether a valid ASX file could indeed have zero
4	entries. But
5	Q. Dr. Houh, I'm not asking about zero
6	entries. I'm asking about I'm saying, can it
7	be can a can an ASX file be implemented in
8	other ways, that does not include a playlist?
9	Generally.
10	[Witness perused document.]
11	A. I mean, I'm not sure why it makes sense to
12	implement a playlist without without any entries.
13	I mean
14	Q. Dr. Houh
15	A. Certainly
16	Q. Dr. Houh
17	A. Certainly, it's
18	Q. Dr. Houh, again, I didn't ask if you could
19	do a playlist without any entries. I did not ask
20	that question. Please listen to the question.
21	The question is, can an ASX file, in
22	general, be implemented without a playlist? Can you
23	have an ASX file that works, and is used by a
24	Windows Media server, and will play a file at
25	least one file without a playlist.
25	least one file without a playlist.

1	A. Well, I mean, that is that's a
2	different question than you asked before. But let
3	me think about that.
4	[Witness perused document.]
5	A. I mean, I think to answer that question, I
6	think I'd want to look at the behavior of the entry
7	tag, with respect to having no event tags. And see
8	if it's possible that there is some sort of playback
9	of content, when there are no entry tags in the ASX
10	file.
11	Q. Dr. Houh, I didn't ask if you'd taken out
12	all entry tags. If there is an entry tag in an ASX
13	file, and it's not within a playlist it's just
14	not in the playlist format that is a valid ASX
15	file. Correct?
16	A. I mean, your question doesn't seem to make
17	sense to me. Because the example of a playlist that
18	they give for example, looking on page both
19	page 10 refers to entries.
20	And when they talk about there's
21	another section that also talks about playlists, on
22	page four and five. And it's stating that these
23	examples of playlists, they all have entries. So
24	you
25	Q. Dr. Houh

1	A. I think you
2	Q I'm not asking about playlists I
3	don't know why you're not answering my question,
4	Dr. Houh.
5	I'm not asking about playlists, and their
6	properties, and playlist properties. I'm asking
7	about an ASX file. And I'm asking I'll ask it a
8	different way.
9	Must all ASX files be implemented with
10	playlists?
11	A. The playlist, as it's described in this
12	document, is given by example. And it's it says,
13	"The most simple playlists are created by adding
14	multiple entry tags."
15	So, if you look at the example of XML
16	given, it's an ASX file with entry tags. And my
17	point here is that, it appears there is the
18	possibility that with zero entry tags, but with an
19	event tag, there still could be some media playback.
20	I think that's what you're asking.
21	And so, the entry in the way that
22	"playlist" is being used in this particular
23	document, I think that you look at you look at
24	these examples, and these examples all have entries.
25	And you're saying that without a playlist,

	-
1	can there be media playback. Well, the playlist
2	example here is, in a sense, that these entries
3	constitute the playlist.
4	And my point is that looking at the event
5	tag, it appears possible that there could be some
6	playback, even with no entry tags, or entry entry
7	XML tags in the ASX file.
8	MR. CHARKOW: Dr. Houh, you're not
9	answering I strike that I move to strike as
10	being nonresponsive.
11	BY MR. CHARKOW:
12	Q. You're not answering my question. Well,
13	let's walk through this slowly. In the second
14	paragraph, in the section entitled "Playlist," in
15	Exhibit 1017, page four, it says:
16	"The most simple playlists are created by
17	adding multiple entry tags to the ASX file."
18	Did I read that correctly?
19	A. Yes. I believe you read that correctly.
20	Q. Okay. So what it's saying is that even
21	the most simple playlist has more than one entry
22	tag. Correct?
23	A. I mean, I think you're you're reading
24	it overly literally. I think you'd have to look.
25	The spec itself may say that one entry is is

still valid to occur in a ASX file. 1 2 But that's not a playlist, Dr. Houh. 0. 3 Α. Well --4 Is it a playlist? 0. I don't see why this document would say 5 Α. 6 one way or the other. Certainly, in mathematics -in programming languages, a list can contain one 7 8 item. That's a very common occurrence. 9 A list can be empty as well. So --10 Right. Dr. Houh, that's not the example 0. 11 shown. So let me ask you this question. 12 Can a ASX file be implemented without a 13 playlist containing two or more entries? 14 I mean, under your strict definition, I Α. don't see why an ASX file can be implemented with 15 16 just one or zero entries. And when I -- when I'm 17 referring to entries, and I say it that way, it's not -- it's with respect to this entry tag that they 18 19 give an example of, and it's discussed further, 20 elsewhere in this document. 21 I don't see --22 Dr. Houh --0. 23 I don't see why it couldn't be a valid ASX Α. 24 file. 25 You're not answering my question again. Ι Q.

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Henry Houh
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1	move to strike as nonresponsive. Let me ask it one
2	more
3	MR. BERG: Counsel, please let the witness
4	finish answering his question.
5	MR. CHARKOW: Objection
6	MR. BERG: He was answering the question.
7	MR. CHARKOW: Okay. Thank you.
8	Objection. Form. Stick with that. Stop
9	MR. BERG: I'm not making an objection,
10	counsel. I'm asking you to stop badgering the
11	witness and to let him finish his question his
12	answer.
13	MR. CHARKOW: If he if he listen.
14	This is a cross-examination. If he goes off if
15	he goes off on a tangent that has nothing to do with
16	the question, I'm going to cut him off. Okay?
17	This is not a regular deposition. This is
18	a cross-examination of a witness, tantamount to a
19	trial. And I will cut and if a witness and a
20	judge would cut the witness off. We don't have a
21	judge in front of us right now, so sorry.
22	MR. BERG: But you said if you cut him
23	off, I'll repeat my comment to you.
24	MR. CHARKOW: Well that unfortunately,
25	you're only limited to form. So, that's where we

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Henry Houh
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1	are at. Because otherwise, it's going to be
2	considered coaching the witness.
3	If you want to go down that road with the
4	Board, then have at it.
5	MR. BERG: Counsel, I'm not coaching the
6	witness. I'm asking you to let him finish his
7	answer.
8	MR. CHARKOW: Well, I think you're
9	coaching the witness. So, we'll continue.
10	BY MR. CHARKOW:
11	Q. Dr. Houh, can a ASX file have a single
12	url, and a Windows Media Player will be able to use
13	that ASX file to deliver a file associated with the
14	url?
15	A. I mean, I don't see why that's precluded
16	by this document, even if you're reading it the way
17	you appear to be reading it.
18	Because, well, it says, "The most simple
19	playlists are created by adding multiple entry tags
20	to the ASX file." And the example shows multiple
21	entry tags.
22	I think consulting the spec as to what a
23	valid ASX file would be would be an easy way to
24	get a quick answer to this. But I don't see what's
25	precluding it, based on this document right now.

1	The fact that there could be one, or even zero
2	entries.
3	And with one entry, I don't see why some
4	content might not still be played, just because it
5	has one entry. It would seem like again, I
6	would I could also do a simple test, and could
7	just answer that, if I if I had the opportunity.
8	Q. Dr. Houh, what sort of tests would you do
9	in the middle of a deposition?
10	A. Well, I mean, if I was doing investigation
11	for and being asked this question, the kind of
12	test I would do is is to create, based on this
13	example, an example of of ASX file with one
14	entry.
15	I'd make sure that the content is
16	available at the proper url. And I'd see if opening
17	this ASX ASX file resulted in playback of
18	content. And it would be a rather straightforward
19	experiment to do, outside the context of the
20	deposition.
21	I wouldn't expect to kind of do
22	experiments during a deposition. But it's the kind
23	of thing that could be done, outside the context of
24	a deposition, if I were just doing some research,
25	and if I was interested in, for example, today's

1	version of Windows Media Player. That could be
2	done, quite readily.
3	But, if I wanted a different version, I'd
4	have to hunt down it would take a little more
5	time to get the answer to that question. So
6	because I would need to find a different version of
7	Windows Media Player, for example.
8	Q. And that
9	A. Or any player that properly played and
10	opened ASX files.
11	Q. Right. Dr. Houh, sitting here you're
12	an expert. Correct? Sitting here today?
13	A. I mean, I'm not an expert in everything.
14	I don't claim to be an expert in everything.
15	Q. Right. But you have enough background to
16	understand what ASX files are, and how they work.
17	Correct?
18	A. Yeah. I mean, in my previous question, I
19	meant all possible things in the world. You know,
20	that's clearly not the case.
21	But, you know, I have definitely a
22	sufficient background to understand this document
23	and ASX files, generally.
24	Q. Okay. So, as an expert, what would you
25	expect to happen if you put a single entry into an

Henry	Houh
	noun

1	ASX file a single entry pointing a single url
2	into an ASX file?
3	Would that ASX file or could that ASX
4	file be used by Windows Media Player, so that the
5	media associated with that url would be delivered to
6	the user device?
7	A. I mean, my expectation is that it would
8	generally and this is just based on the fact
9	that that that I do think there is an overly
10	literal interpretation of the single statement here
11	that you're making. That I don't see why it would
12	necessarily be restricted to having two or more
13	entries in any valid ASX file.
14	The fact is, one could simply try it,
15	and and/or look at the spec to see if it says
16	that's valid or not. And then see, if in fact,
17	various players you know, if it said that, you
18	know, one a single entry in an ASX file is
19	completely renders it invalid, and you shouldn't
20	play anything.
21	If the spec says that, then I would still
22	want to see whether various players that implement,
23	using ASX files, would actually follow the spec or
24	not.
25	And if the spec doesn't say anything like

1	that, I would expect an ASX file with just one entry
2	to to play to play back the entry when it was
3	opened.
4	Just like as if an ASX file with multiple
5	entries is open, that the playback would be playing.
6	Whatever steps need to be taken to commence that
7	playback. If taken on an ASX file with just one
8	entry, would seem to me that I would kind of
9	expect that it would play something.
10	Q. Okay. So, Dr. Houh, you would expect one
11	ASX file sorry. Strike that.
12	You would expect that an ASX file with a
13	single entry to a piece of media would result in
14	playing of that media on your Windows Media Player.
15	Correct?
16	A. Yeah. I mean
17	Q. As an expert.
18	A. If the user had to take steps to commence
19	the playback, you know, if there were multiple
20	entries, whether or not it'll start automatically,
21	or if there is an option set.
22	But whatever actions the user would take
23	to open the ASX file, and begin playback for an ASX
24	file with multiple entries, I would expect that the
25	user taking the same actions on an ASX file with

1	just one entry would be able to commence playback of
2	the first entry. The reference of the first entry,
3	or the the audio file that the first entry is
4	representing.
5	Q. So, Dr. Houh, I want you to assume that a
6	playlist has two or more entries. Okay? Just
7	this is an assumption I'm asking you to make. Okay?
8	A. Okay.
9	Q. An ASX file could work and provide media
10	to Windows Media Player, and be used by Windows
11	Media Player, if it only had a well, strike that.
12	An ASX file does not have to have a
13	playlist, as I just defined it, in order for that
14	ASX file to be used by Windows Media Player, to
15	obtain media. Correct?
16	A. I mean, if, by definition, what you're
17	calling it are you saying that any ASX file must
18	have more than two two entries? Is that what
19	you're is that this hypothetical that you're
20	talking about?
21	Q. Well, where I started was saying that I
22	want you to assume, a playlist the definition of
23	a playlist is that it has two or more entries. Can
24	we just I would like to make that assumption to
25	start with. Okay?

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1	A. Okay.
2	Q. Does an ASX file have to be implemented
3	with such a playlist, in order for it to be used to
4	deliver media? Or can it be implemented with less
5	than, or something other than a playlist?
6	A. Well, I mean, kind of by your definition,
7	a playlist you're calling something a playlist if
8	it has two or more entries. And, you know, in the
9	case that the ASX file has one entry, you're not
10	calling that a playlist, by definition.
11	So, in this hypothetical, you know, I
12	would expect it to play in most players that had
13	implemented ASX files. But I think, again,
14	that's that would be my expectation.
15	But I think it's a rather simple set of
16	tests to test today's easily accessible players, in
17	that situation.
18	So, I think you just happen not to be
19	calling this ASX file with one entry, a playlist, by
20	definition. But I expect that in that case, where
21	it's not a playlist, I would expect some some
22	playback.
23	Because it would be it would be
24	somewhat surprising to not do it. And that type of
25	bias you know, it might be a bias on the outcome
1	of the experiment, but there's no way for me to bias
----	--
2	it in that way.
3	That is, doing the simple experiment would
4	reveal what would actually happen. Whether I
5	believe that that's the expected behavior or not.
6	So
7	Q. Right. Well, I mean, Dr. Houh, you're an
8	expert. I want to get your view on, you know,
9	whether or not you believe you believe that a ASX
10	file would could be implemented without the
11	playlist the type of playlist that I defined.
12	A. Well, I mean, by your definition, that
13	playlist has two entries. I don't see why an ASX
14	file with one entry would, I mean, under your
15	definition, be invalid, or rather, not a playlist.
16	But I don't see why that would preclude it
17	from working. And my expectation is that it
18	would it would probably work on most or all
19	players. But we could we could easily, you know,
20	test that, outside the confines of this deposition.
21	Q. Right.
22	A. But that's it's not it's not a task
23	that I have specifically really done before.
24	Although, I mean, I use plenty of media
25	players today. And when I first create a playlist,

1	it had zero items in it. And in the you know, in
2	the context of a specific application that I might
3	use, zero item playlists seem to be fine. And when
4	I add the first item, I can add it to the
5	Q. Dr. Houh, you're not answering the
6	question?
7	[Indiscernible crosstalk]
8	A. When I add one item to that playlist
9	it's a playlist of one item
10	Q. You're
11	A. And if I add more than one item to the
12	playlist, it becomes a playlist of more than one
13	item.
14	Q. You're not
15	A. So I'm not sure why that renders it
16	invalid. But you're defining it to be invalid if it
17	doesn't have one.
18	So, under that assumption, it's not a
19	playlist. But I still would expect some media to
20	play when I when I play when I open an ASX
21	file with only one entry
22	Q. Right.
23	A based on my experience with lots of
24	other other players that seem to not define
25	"playlist" to be two or more items, as you've

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1	defined for this hypothetical.
2	Q. Okay. So, Dr. Houh, I want you to assume
3	a playlist cannot have less than two entries. Okay?
4	That's the assumption I want you to make. Cannot
5	have less than two entries. That's just let's
6	just assume that.
7	For that definition, can an ASX file be
8	implemented without such a playlist? Yes or no?
9	Either it can or it cannot.
10	MR. BERG: Objection to form.
11	A. I mean, I don't see what's
12	precluding someone implementing an ASX file with
13	just one entry, which, by your definition, is not a
14	playlist.
15	Q. Okay.
16	A. And so, I mean
17	Q. Dr. Houh
18	A that definition
19	Q. Thank you. Dr. Houh, you gave me your
20	answer. Thank you.
21	All right. So, an ASX can an ASX file
22	be implemented with or without well, strike that.
23	An ASX file can be implemented with or
24	without graphics elements, as that term is used in
25	Exhibit 1017. Correct?

1 [Witness perused document.] 2 Was your question with respect to any Α. 3 graphics at all? Or with respect to custom 4 graphics. It's with respect to any graphics 5 0. elements, as set forth in the Exhibit 1017. 6 7 [Witness perused document.] 8 Α. I mean, are you -- are you asking with respect to Windows Media Player? Or with respect to 9 10 any hypothetical player? 11 Q. Windows Media Player. 12 I mean, you know, Windows Media Player, Α. 13 itself, has a number of graphics elements, you know, 14 all representing the overall application, and various parts of the application. 15 16 So, if you're referring to those kinds of 17 graphic elements, also, then I don't see how Windows 18 Media Player would be used without all the various 19 graphic elements that are part of the user 20 interface. Like the Windows; and other various 21 icons and buttons in the Windows Media Player. 22 That's contained -- sorry. That's Ο. 23 contained in this section of the -- of the 1017? Ι 24 just don't understand what you're talking about, 25 because you seem to be going outside this document.

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Henry Houh
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1	I specifically said that the graphic
2	elements that I was referring to are the ones
3	disclosed in this in this Exhibit 1017. So, I'll
4	ask the question again.
5	An ASX file can be implemented with or
6	without graphic elements, as shown on page three to
7	four of Exhibit 1017. Correct?
8	A. Well, I asked I had asked you whether
9	or not you were referring to these custom graphics
10	in here. And you said no. I think you said no.
11	Just any graphics. And so, that was the context of
12	my previous answer.
13	But now, if you are actually referring me
14	to the custom graphics in the Windows Media Player,
15	as given on three pages three and four, it
16	doesn't appear that these these are required. It
17	only says that these there are four basic types
18	of graphics that you can add.
19	But that's not a requirement to add any,
20	one, or all of them, as given by this document.
21	Q. Okay. An ASX file can be implemented with
22	or without server rollover, as that term is used in
23	Exhibit 1017. Correct? Page five.
24	[Witness perused document.]
25	A. I mean, this document goes gives good

Henry H	louh
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1	reasons to use it. But it doesn't say, in this
2	particular document, that it must be used in all ASX
3	files.
4	Q. Right. So it's so, server rollover is
5	an option that you can implement in an ASX file.
6	Correct?
7	A. It certainly is something that can be put
8	in an ASX file. But this document doesn't say that
9	it's either required or not.
10	Q. Well, that section starts off on page five
11	of Exhibit 1017. It says, if you want to it up. So
12	that it automatically rolls over. It says if you
13	want to set it up.
14	That doesn't indicate to you that this is
15	optional?
16	A. Yeah. I mean, it's what I'm saying is
17	it's not saying that it's required. So, it it is
18	teaching what it says. And that that it can be
19	part of an ASX file. But this doesn't require it to
20	be. Or require
21	Q. Right so, it's
22	A. It doesn't require it to be
23	Q. Right. So it's not required. Another way
24	of saying that is, it's optional. Correct?
25	A. I mean, that may be a fair

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1	characterization, but this is giving good reasons
2	why one would might want to use this feature.
3	Q. Right. "Want to use" doesn't mean "must
4	use." Correct?
5	A. Right. I said that this document doesn't
б	require it to be used.
7	Q. Okay. And an ASX file can be implemented
8	with or without protocol rollover. Correct?
9	A. I mean, protocol and server rollover are
10	discussed together. So, I think all the same
11	answers apply to the protocol rollover.
12	Q. Which is?
13	A. Which is
14	Q. What does it
15	A. This document says that it could be used
16	to rollover to a different protocol if a failure
17	occurs.
18	And, you know, I think that means that it
19	could be rolled over to the a different protocol
20	on the same server, or rolled over to a different
21	protocol on a different server. But, either way,
22	it's still rolling over to a different protocol.
23	And this document does give some reasons
24	that people might want to use this feature. But it
25	doesn't require it to be used.

1	Q. In other words, it's optional?
2	A. It can be selected to be used. And there
3	are good reasons to do so, in various cases.
4	Q. Right. Dr. Houh, you would agree that if
5	you don't have to do something, it is optional.
6	Correct?
7	A. Well, I mean, the server the Windows
8	Media Player may implement it. That doesn't sound
9	like it's optional, whether it's the capability
10	is implemented in the player, that is that might
11	be used to open this.
12	But certainly, for any individual ASX
13	file, it can be present, or it may not be present.
14	Q. So, it's optional. Correct?
15	A. I mean, you might not consider it optional
16	if you're trying to write a Windows Media Player
17	that can handle all these cases.
18	Q. Right. But if you're not if you're
19	not if you're not trying to handle all these
20	cases. If you're just trying to write an ASX file,
21	period. A protocol rollover is optional. Correct?
22	A. Well, for ASX files, you know, this I
23	mean, the the refs [Phonetic] that indicate the
24	protocol or server rollover, don't necessarily have
25	to be present in any particular instance of an ASX

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1
     file.
 2
          0.
               Right.
 3
          Α.
               But the expectation is that if an ASX file
 4
    has -- has this rollover feature in it, that --
               That -- you've answered --
 5
          Q.
 6
          Α.
               -- to do it.
               Yeah. You answered. You answered the
 7
          Q.
     question, Dr. Houh.
 8
 9
               In Exhibit 1017, entitled, "All About ASX
10
     Files," there is no express disclosure of reserving
11
     system resources. Correct?
12
               Sorry. Could you repeat that question
          Α.
13
     aqain, please?
14
               In Exhibit 1017, which is entitled, "All
          0.
     About ASX Files," there is no express disclosure of
15
16
     reserving system resources. Correct?
17
               [Witness perused document.]
               Are you referring to any particular
18
          Α.
     resources that this -- this document mentions?
19
                                                      Are
20
     you --
21
               The question was, there is no express
          Q.
22
     disclosure of reserving system resources.
23
               MR. BERG: Object to form.
24
               [Witness perused document.]
25
          Α.
               Well, just taking a quick look at this
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1	document right now, I don't see it using the word,
2	"reserve," or variations thereof; or the word,
3	"resources."
4	Q. Okay. In Exhibit 1017, entitled, "All
5	About ASX Files," there is no express disclosure of
6	using an identifier to reserve system resources.
7	Correct?
8	A. You know, as I said, I don't see the use
9	of the word, "reserve" or "resources." And, I mean,
10	there are examples of certain types of identifiers
11	here. But I don't see them as being discussed in
12	the context of in this document of with
13	respect to kind of reserve or resources
14	Q. Okay. Thank you, Dr
15	A using those words.
16	Q. Thank you, Dr. Houh.
17	MR. CHARKOW: I think this is a good place
18	to take a break, if that works for everybody. I
19	think we've been going for about, you know, a little
20	over an hour.
21	MR. BERG: Yeah. That works for works
22	for me.
23	THE WITNESS: Sure.
24	THE VIDEOGRAPHER: Okay.
25	MR. CHARKOW: Dr. Houh, so

1	THE VIDEOGRAPHER: The time sorry. The
2	time is 3:23 p.m We are off the record.
3	(Short break.)
4	THE VIDEOGRAPHER: Okay. We are back on
5	the record, and the time is 3:36 p.m
6	BY MR. CHARKOW:
7	Q. Dr. Houh, you've been provided with a
8	Exhibit that's been previously marked as
9	Exhibit 1044, in IPR numbers IPR2 sorry
10	IPR2021-00298, 304, and 308.
11	A. I'll take your word that those are the
12	right ones. I don't know them all from memory.
13	Q. Okay. So but you have that document in
14	front of you? Exhibit 1044. Correct?
15	A. Yes.
16	Q. Okay. And Exhibit 1044 is a document
17	it's a patent U.S. Patent No. 5,931,901, to Wolfe
18	et al. Did I read that correctly, Dr. Houh?
19	A. Yes. I believe you did.
20	Q. So, Dr. Houh, have you seen this document
21	before?
22	A. I have.
23	Q. Okay. And you've reviewed this document
24	when preparing your your various declarations,
25	for this is a part?

1	A. I did. Yes.
2	Q. Okay. If you could go to column one?
3	Line 43 to 48? And this is found in the background
4	of the invention section. And it starts with, "It
5	is desirable."
6	If you could just let me know when you get
7	there, when you see where I'm talking about?
8	A. I do see it.
9	Q. Can you read that paragraph into the
10	record, and then tell me what you think that means?
11	A. It says:
12	"It is desirable to provide an
13	internet-based system for the dissemination of
14	valuable preparatory information, free of charge.
15	Just as it is provided through network television
16	and radio stations, without any costs to the
17	ultimate user/subscriber, and with advertiser
18	sponsorship thereof, targeted to the subscriber."
19	Q. So yeah. Go ahead.
20	A. And I think, what it's generally saying
21	is, you know, some TV is broadcast over the air, and
22	radio stations as well. And the desire is to
23	provide an internet-based system to deliver, you
24	know, broadly, the same same information, or the
25	same type of information. But

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1	Q. Right.
2	A. But using using advertising, much like,
3	you know, broadcast and radio have advertising. But
4	also, the advertising of the internet system,
5	disseminating the information, is is targeted to
6	the subscriber.
7	Q. Right. And and are you is that all?
8	Or you have more?
9	A. Well, I think, you know, generally
10	speaking, that's that would be a summary of that;
11	what it would mean to me.
12	Q. Okay. And it is saying that the
13	information is free of charge. Meaning that the
14	the information is some sort of media being free of
15	charge. Correct?
16	A. Well, I mean, I think it's free of charge
17	to the ultimate user, or subscriber. Even though
18	it's still saying it's kind of free. Much like
19	people don't pay to watch a broadcast TV channel.
20	They are not the people that pay. It's that the
21	there's advertisers that are paying.
22	And in this case, there are advertisers
23	advertisements that would be targeted to the
24	subscriber.
25	Q. Right. So the way this works is a

subscriber gets it for free, and the advertisement 1 2 covers the cost of the -- of putting up the media. 3 Correct? 4 Α. I mean, generally speaking, that's what it's saying in the background, of the desire. 5 What would be desirable is -- it's kind of laying the 6 7 background. Right. The background for what? 8 0. 9 For this -- this patent. It's -- I'm just Α. 10 pointing out that it's in the background of the invention section. 11 12 Right. And it's laying out the background 0. for what's to follow. Right? What the invention 13 14 is. Correct? Yes. As broadly stating kind of a desire, 15 Α. 16 based on the background here, at the end of the 17 background section. Right. And in Wolfe, which is 18 ο. 19 Exhibit 1044, revenue is generated from 20 advertisements. Correct? 21 So, if you look at Wolfe, for example, at Α. 22 column four, around line 45, it's talking about 23 billing information and prepaid advertising time 24 available for each advertiser, and arrange -- well, 25 skip that.

1	But, generally, it's talking about
2	generating payments for the advertising time. And
3	then, you know, that's how some of the revenue in
4	this example is being generated, for example.
5	And it's this is talking about for the
6	time, but it's understood that advertisements are
7	run, that use up the time. I think it would, you
8	know, be talking about that elsewhere as well.
9	Q. In Wolfe, how is an advertisement inserted
10	into the music or video content?
11	[Witness perused document.]
12	A. So, for example, the Wolfe talks about
13	these advertiser "advertiser dossiers that also
14	contain specification of desired consumer profiles
15	to be targeted." And, also:
16	"The specification of the category of
17	products or services to be advertised.
18	Specification of any territorial or local time
19	requirements or preferences. And a key to the
20	location of the audio advertising content."
21	And that's in column two, around line
22	nine, 13 through 17.
23	And then, it further goes on, if you look
24	at column three, lines 56 through 68; around there.
25	"As already explained, in accordance with

1	the present invention, the music being transmitted
2	off the internet to the subscribers is bundled with
3	targeted advertising material, in the form of audio
4	messages, tailored to the subscriber or musical
5	profile, paid for by the advertisers."
6	And it further goes on to talk about, I
7	think a database, if you look at column four, around
8	line 50 through 59.
9	"Most importantly, for the present
10	invention, this database also specifies for each
11	particular advertiser, the type, i.e., the profile
12	of the subscriber/listeners, with the particular
13	advertiser which sorry which the particular
14	advertiser would like to target, and the advertising
15	audio content code for each target.
16	It is not necessary to limit the
17	specification to a narrow class of individuals.
18	Several classes can be identified and prioritized.
19	Moreover, each advertiser may have different
20	renditions of audio advertising copy to be directed
21	to different audiences, i.e., classes of listeners."
22	Q. All right. I'm sorry, Dr. Houh. I said
23	"how." Not maybe this is part of how. I meant
24	like, literally, how it's put in there. Now the
25	you know, that it's targeted, or not targeted. I

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Henry Houh
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1 mean, like how it's put in there. 2 You know, is there a -- is there a reserve 3 space that you -- you put it in? Or, you know -- I 4 just -- sorry. I think I'm not sure -- maybe my 5 question was unclear, or --6 Α. Yeah. I thought that was the how, but now 7 that you're asking for a more specific how, maybe it's a different how. I'm not sure. 8 9 Maybe --0. 10 I think -- yeah. I did -- I did see Α. 11 something directed to that. Let me -- let me -- let 12 me look again. 13 Q. Uh-huh. 14 [Witness perused document.] So, for example, if you look at column 15 Α. 16 seven, starting around line 43, it talks about this 17 process about the subscriber selecting content, which they want to receive. And that content is 18 19 placed in a queue. 20 And then: 21 "Based on the profile of the content, a 22 determination is made by the system as to which 23 advertising messages may be delivered. The system 24 determines which -- whether the permitted 25 advertising message has available allocation, and

1	whether other required parameters have been met.
2	And then, from the remaining filter, the
3	next available advertising message is selected. And
4	then, that selected advertising message is then
5	affixed to the next generic message in sequence, or
6	to the applicable identity audio message, and is
7	placed in a queue.
8	And the system automatically links the
9	advertising message, or the generic or identity
10	message, and the subscriber selected content into a
11	single data stream, along with other such streams,
12	pursuant to the subscriber's request.
13	In constructing the stream, the system
14	overlays the generic or identity message on to the
15	content, so that when delivered, the audio generic
16	or identity message, and the audio content can both
17	be heard by the subscriber simultaneously.
18	The completed data stream, including all
19	selections, is then delivered to the subscriber in a
20	single stream of packets over the internet or other
21	communication medium, permitting individualized
22	delivery."
23	And then and then, it does describe at
24	the end of the spec:
25	"Although the present invention has been

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Henry Houh
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1 described in relation to particular embodiments 2 thereof --" 3 And that was an example from a particular 4 embodiment. "-- many other variations, and 5 6 modifications, and other uses will become apparent to those skilled in the art. 7 It is preferred, therefore, that the 8 present invention be limited not by the specific 9 10 disclosure herein, but only by the appended claims." And then it shows the claims. But that's 11 12 an example of how, I think, the advertisement is 13 delivered. 14 MR. BERG: Counsel, are you still on? 15 MR. CHARKOW: Yeah. I'm here. 16 MR. BERG: Oh, okay. 17 MR. CHARKOW: Sorry. BY MR. CHARKOW: 18 19 Dr. Houh, did you answer my question, if 0. 20 there's any other embodiments in the -- in the Wolfe 21 Patent, Exhibit 1044, that you could point to, 22 that's expressly stated? In terms of how ads are 23 inserted. 24 MR. BERG: I think we must have missed 25 that question, counsel.

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1	MR. CHARKOW: Oh. All right. Sorry.
2	BY MR. CHARKOW:
3	Q. Dr. Houh, are there any other examples
4	that you can point to in the specification,
5	regarding how ads are inserted, in addition to the
6	one you just gave?
7	[Witness perused document.]
8	A. So, I don't see any explicit disclosure of
9	another method. But, certainly, it's the Wolfe
10	suggests numerous other ways to do it, including,
11	you know, that Wolfe also teaches about video.
12	And that kind of overlap makes less sense
13	for video than it does for audio. For example, on
14	radio
15	Q. So, Dr. Houh
16	A you know, so
17	Q you answered the question
18	A over the advertisement
19	Q. You answered the question, Dr. Houh.
20	A. You know, the
21	Q. Sorry, Dr. Houh. You answered
22	[Indiscernible crosstalk.]
23	A. The advertisements are delivered over the
24	end of music, say
25	Q. Yeah. Dr. Houh

Г

1	A and not necessarily
2	Q. Dr. Houh, you answered. Dr. Houh, you
3	answered the question. I'm sorry. You already
4	answered the question, you know, a paragraph ago.
5	A. I'm trying to explain I'm trying to,
6	you know, more fully explain my answer.
7	Q. Dr. Houh, you're not trying to more fully
8	explain your answer. You're trying to bury your
9	answer. And the reality is that, you just answered
10	the question.
11	You said there was not you said there
12	was no other example that you can find. And that
13	was my only question. Is there so, let me ask
14	you again.
15	Is there another example of how targeted
16	ads are inserted? Yes or no? Either there is or
17	there isn't. I mean, is it in there or no?
18	A. Well, it's certainly teaching that there
19	are other other ways and modifications to this
20	thing that are apparent to those skilled in the art.
21	So, I think it is suggesting
22	Q. Right. So is it
23	A that there are other ways
24	Q. Is there anything in there?
25	A that were suggested already.

Henry	Houh
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1	Q.	All right.
2	А.	And, you know, I think it's in here I'm
3	trying to	answer your question
4	Q.	Yeah. I
5	А.	that the specification certainly
б	suggests	
7	Q.	You answered
8	Α.	these modifications and variations.
9	Q.	Yeah. Dr. Houh
10	А.	And that other uses will become apparent
11	to those	skilled in the art.
12	Q.	Right.
13	А.	And I'm telling you that one obvious, you
14	know, var	iation and modification
15	Q.	Yeah. I'm not
16	А.	especially with video
17	Q.	I move to strike
18	А.	Wolfe also expressed that the
19	Q.	so you can keep talking.
20	А.	is explicitly disclosing. It doesn't
21	make sens	e to overlay the two like that.
22	Q.	Yeah. Dr. Houh
23	Α.	And since Wolfe is about video
24	Q.	I'm going to move to strike the answer.
25	Α.	that it is suggesting

Henry	Houh
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1	Q. Move to strike the answer.
2	A. Wolfe is teaching
3	Q. Okay. Move to strike.
4	A these things to a person of ordinary
5	skill, because
6	Q. Move to
7	A these are the things that a person of
8	ordinary skill would find
9	Q. Right.
10	A apparent.
11	Q. Move to strike. Yeah. It's not apparent,
12	Dr. Houh. I said explicit.
13	So let me ask you this quick. Is there
14	any express disclosure, in Wolfe, that discloses
15	other embodiments of how to insert advertisements?
16	Expressly.
17	A. As I'm looking at this now, I didn't see
18	another express disclosure, as similarly to you
19	know, as provided in detail there. And
20	Q. Thank you Dr. Houh. Thank you.
21	MR. CHARKOW: All right. So, Spencer, if
22	you can provide Dr. Houh with Exhibit 1053.
23	BY MR. CHARKOW:
24	Q. And, Dr. Houh, if you could let me know
25	when you have access to Exhibit 1053. Exhibit 1053

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Henry Houh
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1	is U.S. Patent No. 6,785,704. And that is
2	previously marked as Exhibit 1053, in IPR numbers
3	2021-00298 and 304.
4	And, Brad, if you could just confirm that
5	those are the two IPRs that use this reference.
6	MR. BERG: Yeah. Sorry. Just give me one
7	second, counsel, to confirm that.
8	MR. CHARKOW: Yep.
9	[Pause]
10	MR. BERG: Yes. That's correct.
11	BY MR. CHARKOW:
12	Q. Okay. Dr. Houh, have you seen
13	Exhibit 1053 before?
14	A. Yes. I have.
15	Q. Okay. Do you see the filing date on the
16	cover page of July 3rd 2000?
17	A. Yes.
18	Q. And do you see underneath that, two lines
19	down, it says "Provisional Application," and it says
20	"Filed on December 20th 1999?"
21	A. Yes.
22	Q. Okay. Windows Media Player was in use and
23	available publicly, before McCanne's earliest
24	priority date, shown on the face of the patent.
25	Correct?

1	A. Yeah. I believe I mean, you said
2	"McCain" again, but I'll I'll recognize what
3	you're talking about if you say "McCain," as this
4	reference.
5	But I believe yeah, it's true that
6	versions of Windows Media Player were available
7	before 1999.
8	Q. Let me let me just clean that up.
9	Windows Media Player was available before
10	Exhibit 1053's earliest priority date, shown on the
11	face of the patent. Correct?
12	A. I believe it's true that certain versions
13	of Windows Media Player were available before the
14	earliest priority date shown on the McCanne patent.
15	Q. The discussion of Microsoft Net Show is
16	only contained in the background section of
17	Exhibit 1053. Correct?
18	[Witness perused document.]
19	A. So, if you look at column 25, around line
20	46, it says:
21	"In current art, an application like a web
22	browser or streaming Media Player parses a url entry
23	server component and relative path component."
24	So it's not explicitly mentioning "Net
25	Show," but what you pointed me to in the background

1	is describing Net Show as a streaming type having
2	streaming data capabilities.
3	And it's not mentioning "Net Show"
4	specifically, but later, it does refer to general
5	classes of applications that can stream media.
6	Q. Okay. So, the summary of the invention
7	section of McCanne does not expressly mention using
8	Net Show. Correct?
9	[Witness perused document.]
10	A. I don't see the word "Net Show" used
11	explicitly in column six, lines 17 through 67,
12	which yeah which is which is the summary of
13	the invention section.
14	Q. The brief description of the drawing
15	section of McCanne does not expressly mention using
16	Net Show. Correct? I'm sorry. Strike that. I
17	think I may have asked that question wrong.
18	The brief description of the drawing
19	section of McCanne does not expressly mention using
20	Net Show. Correct?
21	A. I don't see the word "Net Show" being
22	explicitly used in column seven, lines one through
23	52, which is the brief description of the drawing
24	section.
25	Q. The description of the specification

1	embodiment section of McCanne does not mention
2	does not expressly mention using Net Show. Correct?
3	[Witness perused document.]
4	A. So, as I looked through McCanne just now
5	from in that section, which I think goes through
6	up to the claims I don't see the word "Net Show"
7	being explicitly used in that part of the
8	specification.
9	Q. Okay. And the claims of McCanne do not
10	expressly mention using Net Show. Correct?
11	[Witness perused document.]
12	A. I don't see the word, "Net Show," being
13	explicitly used in the claims anywhere.
14	Q. The figures of McCanne do not expressly
15	mention using Net Show. Correct?
16	[Witness perused document.]
17	A. So so, I don't see the word, net
18	"Net Show" explicitly used in the figures, but I
19	note that there are abstract markings
20	for [Inaudible]. And the specification certainly
21	describes types of clients, as I discussed earlier.
22	Q. Okay. But you don't see any express
23	mention of "Net Show." Correct?
24	A. I didn't see the word, 'Net Show" being
25	used in the in the figures. But in many cases,

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1	it doesn't use the word "client" either. It
2	doesn't
3	[Witness perused document.]
4	Q. Again, Dr. Houh, I didn't ask that
5	there is no question I asked about client, or
6	anything. I just asked about Net Show.
7	McCanne, which is Exhibit 1053, makes no
8	express mention of "ASX" or "ASX" file. Correct?
9	[Witness perused document.]
10	A. So, I believe that if you're referring to
11	"ASX," as we've been talking about, I believe, in
12	Exhibit 1017, you know, I mean, there is the notion
13	of an autonomous system with a number here, and
14	but I don't believe that's what you're talking about
15	when you asked about ASX.
16	But, with respect to the ASX, as it's
17	used, as a type of file extension, or file, I don't
18	see an explicit discussion of ASX files in the
19	specification in the in the McCanne patent.
20	Q. Thank you, Dr. Houh. In McCanne, which is
21	Exhibit 1053, it makes no express mention of Windows
22	Media Player. Correct?
22	
<b>22</b>	[Witness perused document.]
	[Witness perused document.] A. So, while I don't see the three-word

Henry	Houh
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1	earlier, the description of the embodiments does
2	discuss streaming Media Players, which I think
3	Windows Media Player was known to do at the time.
4	Q. Right. So but you don't see any
5	express mention of Windows Media Player in McCanne.
6	Correct?
7	A. I did not see any use of the three-word
8	phrase, "Windows Media Player."
9	Q. Or you didn't see the word, "Windows
10	Player." Correct?
11	A. Yeah. I don't think I saw that either.
12	But "Media Player," I did see.
13	Q. Okay. McCanne, which is Exhibit 1053,
14	makes no express mention of a playlist, or a play
15	script. Correct?
16	[Witness perused document.]
17	A. So, as I looked through it just now, I
18	don't see any explicit use of the of the word or
19	phrase, play script, or playlist.
20	Q. Thank you, Dr. Houh.
21	A. You know
22	MR. CHARKOW: So, it's a good time to take
23	a break for me, if it works for everybody else. I'm
24	on to my next section. So, if that works for you,
25	Dr. Houh, we can. And for Brad, we could take a

1	break.
2	THE WITNESS: Sure.
3	MR. BERG: Yep. That works fine for me.
4	MR. CHARKOW: All right. So, let's do
5	how long do you would you like, Dr. Houh?
6	THE WITNESS: You know, maybe 10 minutes
7	is good.
8	MR. CHARKOW: Okay. So we'll do 4:44
9	4:45?
10	THE WITNESS: Yeah; 4:44 like 3:33. Not
11	like our last break. How's that? And we'll hope to
12	get started by 4:45.
13	MR. CHARKOW: Okay. Well now we'll take
14	another minute.
15	THE VIDEOGRAPHER: The
16	MR. CHARKOW: Okay. Go ahead.
17	THE VIDEOGRAPHER: The time is four the
18	time is 4:35 p.m We are off the record.
19	(Short break.)
20	THE VIDEOGRAPHER: Back on the record.
21	The time is 4:46 p.m
22	MR. CHARKOW: Dr. Houh, you've been
23	provided with Exhibit 1006, that's been previously
24	marked, in IPR2021-00265.
25	Brad, if you could just confirm that

1	that's the I believe that's the only IPR that
2	this is that this is cited in.
3	MR. BERG: Yeah. It's only in one of
4	them. Let me just confirm the number there.
5	Yeah. That's right.
6	MR. CHARKOW: Okay.
7	BY MR. CHARKOW:
8	Q. And this Exhibit 1006 is U.S. Patent
9	No. 6,385,596 to Wiser et al.
10	Dr. Houh, have you seen this exhibit
11	before?
12	A. Yes, I have.
13	Q. And have you considered this exhibit in
14	forming your opinion in the in this in IPR
15	265?
16	A. Yeah. In one of these cases, if that's
17	what the attorneys say, then it must be the one.
18	Q. Okay. Dr. Houh, let me ask you a
19	question. Have you talked with your or any
20	attorney throughout the whole day today, after the
21	deposition started?
22	A. No.
23	Q. And have you had any communications
24	through text, or email, or in any way, with any
25	with any attorney, during the course of this

1	deposition?
2	A. I mean, other than you, no.
3	[Witness perused document.]
4	Q. Sorry. Dr. Houh, were you waiting for me?
5	Or are you looking at something?
6	A. Oh, I didn't think there was a pending
7	question.
8	Q. Oh. I asked if you received any
9	communications from any attorneys during the course
10	of the deposition.
11	A. Oh. I thought I answered that question.
12	But no, I hadn't I hadn't not received any
13	email, or text, or any other calls from any
14	attorneys during or breaks.
15	But I think I said earlier, I
16	obviously, we've been going back and forth during
17	this deposition.
18	Q. Yeah. Other than me. So let's just say
19	that.
20	A. No.
21	Q. Sorry? No? You haven't talked to
22	anybody any other attorney, other than me, during
23	the course of this deposition?
24	A. That's true. I assume you don't mean, you
25	know, anything we say about breaks just before we go

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1	on a break, and where Brad might be talking too.
2	Q. Okay
3	A. But no direct communication with any
4	any other attorneys, aside from you, since the
5	deposition started.
6	Q. Okay. Thank you. And other than the
7	documents that you have in front of you, have you
8	been looking at any other documents, or at any other
9	documents in front of you; on your screen; on your
10	desk?
11	A. No.
12	Q. So, Dr. Houh, I'm going to ask some
13	questions about Wiser. The Wiser system uses a
14	voucher ID in order to determine whether to deliver
15	media to a user. Correct?
16	[Witness perused document.]
17	A. If you look at Wiser in column eight, one
18	thing Wiser says is that:
19	"The voucher ID limits the use of the
20	media voucher the media voucher to a single
21	purchase or preview transaction.
22	But Wiser also discloses other additional
23	uses of the voucher ID.
24	Q. So, the Wiser system uses a voucher ID in
25	order to determine whether to deliver media to a

1	user. Correct?
2	[Witness perused document.]
3	A. I think there are a lot of different
4	elements that participate in that ultimate decision.
5	For example, if you look at column eight,
6	it talks about this:
7	"The transaction ID preferably includes
8	the media voucher ID, the timestamp of the time of
9	delivery to the Media Player, 116, a certificate
10	serial number of the content manager, 112,
11	authorizing the delivery of the media data file,
12	200, and the certificate of the Media Player, 116,
13	receiving the media data file, 200.
14	And I think that's with respect to the
15	download portion of the capability disclosed in
16	Wiser.
17	Q. Right. So, a voucher ID is used by the
18	Wiser system, in order to determine whether to
19	deliver media to a user. I think you're saying it's
20	one it's one thing, but it's one of several.
21	A. Yeah. That was the point. Which is,
22	there are many things. And I pointed out some of
23	what the voucher ID was used for in the previous
24	in the previous earlier question. And then this,
25	basically, to support that there are many things in

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Henry Houh
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the authorization of the delivery of the media file 1 2 to a user. 3 Q. Right. In Wiser, the voucher ID is used 4 to authenticate a user. Correct? 5 [Witness perused document.] 6 Well, I mean, I think it's the consumer Α. certificate that's providing the authentication 7 credentials for particular users. Especially those 8 9 who purchase items in Wiser. 10 And, I mean, there's numerous things that 11 I can point you to, if you want me to do that. 12 So you're saying that the voucher ID 0. No. 13 is not used to authenticate the user? 14 Α. Well, the main thing that's used to authenticate the user is the consumer certificate. 15 16 For example, in column eight, line 60, "The consumer 17 certificate is used to authenticate the purchase -- " That's not the one I'm looking at. 18 no, wait. 19 There is discussion that it's the consumer 20 certificate which provides the authentication 21 credentials that the user is, indeed, who they say 22 they are. Which would be the authentication part of 23 the system. 24 0. Are you saying --So, yeah. Column 11, line 29: 25 Α.

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Henry Houh
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1	"A user registers to obtain a consumer
2	certificate that is used by the content manager to
3	authenticate the identity of a purchaser of a media
4	data file."
5	It says that in numerous places, as well.
6	That's just one that I see right now.
7	Q. Right. Well, you say that's the main
8	thing that's used to authenticate. Is the voucher
9	ID used to authenticate? Or part of the data used
10	to authenticate a user?
11	A. Well, I mean, the voucher ID is used in
12	I mean, we can go through the different uses, if you
13	want to do it that way. But but in particular,
14	it's really this consumer certificate that provides
15	the authentication credentials.
16	And this is generally with respect to
17	the certificate, is a kind of a term used in
18	public/private key public/private key encryption.
19	And this does discuss public keys and private keys.
20	And, typically, a public key is can be
21	found in a consumer in a certificate belonging to
22	a particular person. So
23	Q. Right
24	A. So, I think it's really this consumer
25	certificate that's being used to authenticate the
1	identity of a purchaser, which would be a user in
----	--
2	the system.
3	Q. Yeah. So, can you go to let's go to
4	column five.
5	A. Okay.
6	Q. And if we can go to line eight? And it
7	reads:
8	"The delivery server validates the message
9	authentication data using the voucher ID and the
10	certificate chain from the packet, and the receipt
11	obtained from the content manager."
12	So, doesn't that indicate that the voucher
13	ID is used, at least part for identification?
14	A. Well, I mean, you asked about
15	authentication of the user. This is talking about
16	authenticating the messages.
17	So, I mean, there is one one use of
18	authentication is you know, is a person who they
19	say they are? And then, you know, one can be issued
20	credentials, like a certificate, that shows that you
21	are.
22	And then, there is another part about
23	there is another concept of authenticating a
24	message, is that, is this message really the message
25	that was sent, and perhaps wasn't tampered with.

1	And it's possible to authenticate messages as well.
2	So, I think the part you're pointing me
3	to, is a message authenticating the Media Player
4	creates a message authentication of the receipt and
5	voucher ID from the media voucher, and the consumer
6	certificate from the passport.
7	So, it's it's really authenticating a
8	bunch of things. But it's different this is
9	different than the concept of authentication of a
10	user.
11	Q. Okay. So, in Wiser, the voucher ID is
12	used to authorize a user. Correct? To access
13	content.
14	[Witness perused document.]
15	A. I mean, if you look at column 18, line 11,
16	"The voucher ID is used in the process for that."
17	But, again, it's not the only thing. Line 12
18	well, maybe starting at line nine:
19	"Once the merchant server has received
20	payment authorization, it notifies the content
21	manager that the user has purchased the media
22	associated with the voucher ID.
23	This is done by providing the voucher ID
24	and authorization token previously sent to the
25	merchant server, and a flag indicating the new state

[	
1	of the reservation is authorized for delivery.
2	The content manager updates the
3	transaction database to reflect that the voucher
4	packet for this voucher ID has been authorized for
5	purchase and download. This notification authorizes
6	the content manager to enable requested media data
7	file for delivery."
8	And so, that that really is discussing
9	a number of things that go into the process of
10	authorizing specific content for delivery to a
11	specific user. And the voucher ID is used in the
12	back and forth.
13	But, certainly, there are other other
14	things used, as well, in that process?
15	Q. Right. So in Wiser, the voucher ID is
16	used in the authorization process, in order to
17	authorize the users to access content. Correct?
18	A. Well, there are many things used. And the
19	voucher ID is used, as disclosed in this section, as
20	part of the back and forth between various elements
21	of the of the Wiser components.
22	Q. So, the voucher ID is one of the elements
23	used to authorize a user to access content.
24	Correct?

1	elements used in the process of the back and forth
2	of but there are other elements, you know.
3	And, I mean, you know, as stated
4	elsewhere, the voucher ID is really used to track a
5	reservation. But I wouldn't I would say that the
6	identity of the reservation would be important. But
7	that the but that that doesn't encapsulate
8	certainly, it doesn't encapsulate all the necessary
9	data for the authorization.
10	Simply knowing what specific reservation
11	doesn't mean there actually is authorization for
12	that reservation. You know, this section is
13	disclosing a separate authorization token.
14	Q. Right.
15	A. So, again, it's part of the process. It's
16	not it's used in the process of, as I just
17	referred you in Wiser.
18	Q. Right. I'm
19	A. So, it's certainly part of the process.
20	MR. CHARKOW: Okay. I'm moving to strike
21	as non that answer as nonresponsive.
22	BY MR. CHARKOW:
23	Q. All right. The voucher ID is used by the
24	Wiser system until the media is delivered. Correct?
25	[Witness perused document.]

1	A. So, I think Wiser does describe using the
2	voucher ID in the process, up to the point of
3	downloading a purchase file, for example, in that
4	particular type of transaction, which is one of
5	several that Wiser discloses.
6	But it also discloses using the voucher ID
7	after the download of the of the file as well.
8	Q. Can you turn to column 14, line 36?
9	A. Okay.
10	Q. And can you read from column 14, line 36,
11	through column 15, line nine? And the question that
12	I have is, there's no express mention of a voucher
13	or voucher ID. Correct?
14	[Witness perused document.]
15	A. I mean, if you're asking about whether
16	voucher ID appears explicitly between the lines
17	the section starting with "preview," at line 36 in
18	column 14, but ending at column 15, line nine, I
19	think you said.
20	I mean, the previous section does go on.
21	And while that section
22	Q. No. That's not what I asked.
23	A doesn't specifically mention voucher
24	ID. The media voucher, if you look further down, is
25	mentioned in

	Henry Houh SITO Mobile
1	Q. I didn't ask that, Dr. Houh.
2	A and then, in paragraph
3	Q. I mean, you've answered the question
4	A. In column eight, line 19, it and the
5	section talking about
6	Q. That's not
7	[Indiscernible crosstalk.]
8	Q. I don't know why you're answering another
9	question
10	A include the voucher ID as part of the
11	media voucher.
12	Q. Right. And, Dr. Houh, I didn't ask you
13	anything other than those lines. So why did you
14	why did you go beyond those lines?
15	I just asked you those lines. I'm just
16	asking you a question. I don't understand why
17	you're first of all, I'm striking as
18	nonresponsive. Moving to strike as nonresponsive,
19	your answer.
20	And I'll ask you again, in those lines
21	only, column 14, line 36, to column 15, line nine,
22	is there any express mention of the voucher, or
23	voucher ID? Yes or no? In those columns just
24	that section.
25	A. Well, I think there's lots of sections.

Hulu vs.

1	Voucher II	) is not explicitly mentioned in many parts
2	of this sp	pecification. And, as I said, in those
3	lines	
4	Q.	I'm not asking you about many parts,
5	Dr. Houh.	That's not my question.
6	Α.	In that section
7	Q.	That's not my question, Dr. Houh.
8	Α.	you referred to, as I said as I
9	answered,	I don't see the term "voucher ID" used,
10	but in the	e description
11	Q.	Thank you. You answered the question.
12	Α.	the whole part of the specification
13	mentioned	
14	Q.	Don't get confused
15	Α.	mentioned that the preview
16	Q.	Thank you, Dr. Houh.
17	Α.	and it does definitely mention media
18	voucher.	And in the specification
19	Q.	Yeah. I'm
20	Α.	the section describing media voucher,
21	it definit	cely mentions that it's used
22	Q.	Right.
23	Α.	in previews.
24		MR. CHARKOW: All right. I'm moving to
25	strike as	nonresponsive. That is not a responsive

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1	answer, Dr. Houh.
2	BY MR. CHARKOW:
3	Q. So, with regard to the voucher ID, once
4	the delivery of media is completed, the voucher ID
5	is one thing that the voucher ID is used for is
6	to log that the delivery was made. Correct?
7	[Witness perused document.]
8	A. So, if you look at column 19, starting at
9	line 44, it does say that:
10	"Once delivery is complete, the delivery
11	server 118 notifies line 62, the content manager
12	112, indicating the voucher ID, media ID, receipt
13	token, time duration of a download, and the
14	authorization token.
15	The content manager 112 updates its
16	transaction database to reflect that the media data
17	file has been delivered."
18	So that's that's one use of the voucher
19	ID as part of that process. Again, I wouldn't say
20	it's the only thing used for logging the delivery.
21	But, it's one of many things used to in the
22	logging of the delivery.
23	Q. Right. And then, the voucher ID, also, in
24	column 20, line 40 it also talks about using it
25	to the voucher ID to log delivery. Correct?

A. I think that section generally talks about
how the long entry contains a number of things. One
of which is the voucher ID. So, I think that's
consistent with the other section that I directed
you to in the previous column.
But I think, certainly, the voucher ID is
used as a part of that particular log entry, as
disclosed in that section.
Q. Okay. And what happens to that voucher ID
after the media's been delivered and log in has
occurred?
[Witness perused document.]
A. Well, I mean, once this data is added to a
log entry, it becomes part of the log. So, all
these all these all these items are become
part of a log entry.
Q. Right. And does anything else happen with
the voucher ID?
[Witness perused document.]
A. Well, if you look in this section, that
same column, column 20, it talks about the purpose
of the log. Which is, that it's a secure,
tamper-resistant log to be used for rights reporting
information.

1	the log, including the voucher ID, could be would
2	be used to generate these rights reports.
3	Q. Okay.
4	A. And so, I think I think that's
5	that's one thing Wiser is disclosing, with respect
6	to use of the voucher ID, after it's logged.
7	Q. Okay.
8	MR. CHARKOW: Spencer, can you provide
9	Dr. Houh with let's see Exhibit 1051?
10	Dr. Houh, if you could let me know when
11	you have access to that?
12	And, for the record, Exhibit 1051 has been
13	previously marked in IPR numbers 2021-00265, 298,
14	304, and 308. Brad, if you just want to check my
15	accuracy, please?
16	MR. BERG: Yeah. That sounds accurate.
17	THE WITNESS: So, I have the document open
18	now.
19	BY MR. CHARKOW:
20	Q. Okay. So, in front of you, Dr. Houh, you
21	should have Exhibit what's been previously marked
22	as Exhibit 1051, which is a U.S. Patent Application
23	Publication, U.S. 2004/0083273, to Madison et al.
24	Do you have that document in front of you?
25	A. Yes.

1	Q. And have you seen this document before?
2	A. I have.
3	Q. And do you did you review this document
4	in relying on sorry. Strike that.
5	Did you review this document in forming
6	your opinions in these four IPRs?
7	A. Yes.
8	Q. Okay. Paragraph 32, in this Madison
9	reference, 273 publication, is the only disclosure
10	of advertisement in Madison. Correct?
11	MR. BERG: Objection to form.
12	[Witness perused document.]
13	Q. Actually, I withdraw the strike the
14	question.
15	Paragraph 32, in Madison, Exhibit 1051, is
16	the only is the only express disclosure of
17	advertisement in Madison. Correct?
18	MR. BERG: Object to form.
19	A. I mean, I I don't think I'd agree with
20	that. I mean, if you look at Figure 8D, it talks
21	about an ad tag. I would say that's disclosing an
22	advertisement.
23	If you look at paragraph 37, it also
24	refers to CG ad tag, which each record contains
25	the playlist details, including the CG ad tag.

1	I would say that that would be referring
2	to an advertisement.
3	[Witness perused document.]
4	Q. Anything else?
5	A. Well, 32 does say "in ad tag" it goes,
6	ad tag, paren, which specified where an
7	advertisement is to be inserted. So, at least those
8	are mentioned in 32, and the two other places I
9	mentioned, for example.
10	Q. Anywhere else?
11	[Witness perused document.]
12	A. I mean, I don't see just looking
13	through right now, I don't see any explicit
14	references, other than those three that I mentioned.
15	Q. Okay. Thank you. In Madison, where the
16	advertisements are inserted is in the media stream.
17	Correct?
18	[Witness perused document.]
19	A. By the way, I found another mention of
20	"ad" in Figure 2B.
21	Q. Okay.
22	[Witness perused document.]
23	A. By the way, I found another reference to
24	"ad tag" in Figure 8C, I think. Let me just
25	yeah; 8C.

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1	Q. Okay.
2	[Witness perused document.]
3	A. So, this Madison reference does talk
4	about at least in this section, paragraph 32,
5	you're talking about, that these ad tags kind of
6	specify where an advertisement is to be inserted.
7	And I think there's that would be
8	understood I mean, I think it's known that there
9	are multiple ways that ads can be inserted in these
10	things.
11	So, I don't think it says, specifically,
12	that it's inserting it into a specific stream, as
13	your question asks. But Madison discloses that the
14	stream IDs reference files of uploaded content.
15	And so, certainly, it's possible to insert
16	into the middle of a file. And it's also possible
17	to kind of sequence them in between files, or as a
18	separate expressly named file, where Madison does
19	disclose playlists, and items in a playlist that
20	some could refer to ads.
21	And, in fact, "ad tag" is mentioned in
22	some of these tables, in the items that are
23	contained in a playlist.
24	Q. Just to be clear, you're saying that the
25	ad tag, or the ads, are inserted in between streams,

1	or within a stream?
2	A. I mean, I think Madison is saying, you
3	know, that there's all sorts of you know, it has
4	this the scope of the present invention covers,
5	conventionally, known and future developed
6	variations and modifications to the system
7	components described herein, and would be as
8	would be understood by those skilled in the art.
9	And, you know, if you look at figure
10	let me see which one.
11	Q. Okay. I just want to know what it
12	discloses. Not what you can you know, all the
13	things that you could potentially envision. I just
14	want to know what it actually discloses. Madison
15	that is.
16	That was my question.
17	[Witness perused document.]
18	A. So, if you look at figure sorry,
19	paragraph 36, it's describing one of Figure 2
20	and, in particular, the labels used are in Figure
21	2B. And it talks it says that:
22	"Also associated with each client account
23	identified in the CM accounts table 210 is client
24	playlist information.
25	Such playlist information is contained

1	within the CM playlist table 222, content group, CG
2	table 224, and CG streams table 226. In general,
3	the CM playlist table 222 includes records
4	identifying each client playlist, as identified by a
5	content group ID.
6	Each record further includes the CM
7	account ID and the sort order, which indicates the
8	ordering of the items of streaming content
9	associated with the particular playlist."
10	If you look at at Figure 2B, it shows
11	the content group and entry, which includes CG ad
12	tag. And, furthermore, it also includes, in the
13	streams entry, 214, streams two, keep by stream ID.
14	And ad tag there as well.
15	So, I think it's disclosing that
16	there's there's different associations with the
17	ad tags, and different elements of various playlists
18	and streams.
19	Q. Right. But at the end of it all, it comes
20	down to streams? It comes down to the ads. If they
21	are part of a playlist, they are being inserted in
22	streams, or between streams. Correct?
23	MR. BERG: Objection to form.
24	A. Yeah. I mean I mean, certainly, that's
25	one way it would be well-known to be done.

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Henry Houh
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1 There is no other disclosure that 0. Okay. 2 it's done anywhere else -- any way else. Express 3 disclosure. 4 Α. I mean, if you're saying a description of "Hey, here we put the ad in," I mean, it's -- I 5 6 didn't quite see that. 7 But we already saw you pointing me to the text about the insertion -- let's see -- in 32, 8 9 about which specified: 10 "An ad tag which specified where an 11 advertisement is to be inserted. And that these ad 12 tags are a part of the stream entries, as well as 13 the content group entries." 14 So, it's --It's related to the -- it's still related 15 ο. 16 to the stream, though. Correct? 17 Α. Well, there's also a content group, which 18 it's also related to. In that same figure, the ad 19 tag appears twice. Different forms. One's a CG ad 20 tag. And for the stream, it says "ad tag." 21 Right. Q. 22 Α. And so -- and so, yeah. I think -- I 23 think, you know -- but I don't think I saw express 24 disclosure about -- about it saying, "Well now we 25 have the playlist and here's where we'll put the ad

1	in the third position."
2	I mean, but I think if you look at those
3	disclosure, ads are certainly disclosed as being
4	parts of these playlists. The ad tags are. That
5	they are part of the data related to a playlist.
6	Q. Well, it's not part of the data related to
7	the playlist. It's related to its insertion into
8	streams. Correct? Into streams or between streams.
9	Correct?
10	A. Well, there are there are content
11	groups associated with the ad that are associated
12	with an ad tag, as well as stream IDs.
13	And so, I mean, there are multiple ways
14	to you know, to kind of that are known to put
15	ads into a list. So, I think I think and
16	Madison discusses that those well-known variants
17	are something would be understood by those
18	skilled in the art.
19	So, I think, you know
20	Q. Okay.
21	A it's I don't see a section right
22	here, that it's explicitly, you know, saying that
23	here's where you insert it. But I think those are
24	all variants that would be conventionally known, and
25	would have been understood by those skilled in the

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1	art.
2	Q. Right. I'm not asking specifically how
3	it's done. I'm just saying that the ad insertion is
4	occurring in Madison, related to the streams.
5	Correct?
6	A. Well, so, with respect to listening to a
7	playlist, Madison is disclosing, in parts, that
8	there actually are various different files in
9	different stream IDs, that comprise a playlist.
10	And so, I think though each of those
11	stream table entries also has space for an ad tag.
12	So, it may look virtually like one one stream to
13	the user, playing a playlist. But I think,
14	certainly, Madison is disclosing that each different
15	file has its own stream ID.
16	And I can point you to that if you want me
17	to, but that's there are portions of Madison that
18	are talking about that type of association between a
19	stream ID and a particular file.
20	Q. Right. But what I'm I don't think
21	you're disagreeing with me. You're saying you
22	said "stream" many, many times over, every time you
23	talked about ads. An ad insertion.
24	All I'm saying is that the ad insertion is
25	related to the streams. It's inserted in or in

1	between the streams. That's the express disclosure.
2	There's nothing there's nothing else.
3	Correct?
4	A. Yeah. I mean, if you're trying to say the
5	overall stream of the whole of the whole play of
6	the playlist. But there are different stream IDs
7	that are being used in various portions of you
8	know, for the different files.
9	But, generally, if you're going to look at
10	"stream" as the kind of a whole session, then
11	certainly, yeah. What you said, which is, ads can
12	be inserted in between elements, or within elements,
13	is certainly there'd be known known ways to do
14	that insertion.
15	Q. Right. But there is there is no
16	disclosure of any other insertions, other than in or
17	between streams. Correct?
18	A. I didn't see any express disclosure,
19	otherwise. But
20	Q. Thank you.
21	A those are those are known methods.
22	And, certainly, another known method that that we
23	viewed
24	Q. Yeah.
25	A earlier, was mixing the audio together.

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1	And that you know, was I mean, that would have
2	been known as well.
3	Q. Right. I understand. But you're still
4	the advertisement is in or between streams. That's
5	the express disclosure. Correct? In Madison?
6	MR. BERG: Objection to form.
7	A. I mean, Madison does disclose other
8	well-known variants that that could be used.
9	And, certainly, putting them in between elements in
10	the playlist, or within an element. And, as we saw,
11	also, it was known to mix them together. But,
12	certainly, that's not precluded.
13	Q. Right.
14	A. So, I mean, there's flexibility because a
15	person of ordinary skill has can understand how
16	the variants might be how the future you know,
17	different variations and modifications to the system
18	components describe
19	Q. Right
20	A as Madison describes.
21	Q. All right. I but again, the only
22	express disclosures are the ones you told me about
23	in Madison. Correct?
24	A. Yeah. I mean, the
25	Q. That doesn't answer my question.

1	A. The figures
2	Q. Okay. That doesn't answer my question.
3	A. The ad tags associated with both stream
4	entries and content group of entries. I mean
5	Q. What? I didn't hear the last part?
6	A. Content group entries.
7	Q. Sorry. Say that again. I can't hear you.
8	A. Content group entries.
9	Q. I don't know what that is. I'm just going
10	to strike as nonresponsive.
11	MR. CHARKOW: Move to strike as
12	nonresponsive. You're just not answering the
13	question.
14	Okay. So let's take a break. I'm
15	almost I'm almost ready to wrap up, shortly, I
16	think. I've just got to talk to Mitchell and see
17	where we're at.
18	Is it can we take a break now, Dr. Houh
19	and Brad?
20	MR. BERG: Yeah. That works fine for me.
21	THE WITNESS: Yeah. Works for me.
22	MR. CHARKOW: Okay. 6:20? Can we do
23	6:20 Eastern?
24	THE WITNESS: Sure.
25	THE VIDEOGRAPHER: Okay. The time is

1	6:10 p.m We are off the record.
2	(Short break.)
3	THE VIDEOGRAPHER: Okay. Back on the
4	record, and the time is 6:21 p.m
5	MR. CHARKOW: Dr. Houh, thank you very
6	much for your time today. I have no further
7	questions at this time.
8	THE WITNESS: Thank you.
9	MR. BERG: So, counsel, let's just take a
10	brief five-minute break, and come back. And I'll do
11	a short redirect.
12	MR. CHARKOW: Great. Okay.
13	THE VIDEOGRAPHER: Okay. The time is
14	6:21 p.m We are off the record.
15	(Short break.)
16	THE VIDEOGRAPHER: Back on the record.
17	And the time is 6:31 p.m
18	REDIRECT EXAMINATION BY MR. BERG:
19	Q. Hi, Dr. Houh. Thank you so much for your
20	time today. I appreciate it.
21	A. Thank you.
22	Q. I just have a couple of brief questions
23	for you. You have not formed any opinions about
24	Hulu's systems in connection with this matter.
25	Correct?

1	A. That's correct. I have not.
2	Q. And you have not offered any opinions on
3	Hulu's systems here today. Correct?
4	A. That's correct.
5	MR. BERG: No further questions.
6	MR. CHARKOW: Well, I have all sorts of
7	re-cross based on that. I'm good.
8	So, Dr. Houh, I'll echo what Brad said.
9	Thank you very much for your time. We appreciate
10	it. I know it's been long days.
11	And I have no further questions, Brad. So
12	if you have no further questions, we can go off the
13	record.
14	MR. BERG: Yes. No further questions for
15	me either.
16	THE VIDEOGRAPHER: Okay. The time is
17	6:32 p.m This is the end of the videotaped
18	deposition of Dr. Henry Houh, Volume I. Dated
19	July 27th 2021. We have off the record.
20	(Whereupon, the deposition adjourned at
21	6:32 p.m.)
22	
23	
24	
25	

1	REPORTER'S CERTIFICATE
2	
3	I, GISELLE MITCHELL-MARGERUM, the undersigned, a Registered Professional Reporter, Certified Reporting
4	Instructor, Licensed Court Reporter, and Certified Court Reporter, do hereby certify:
5	That the witness, HENRY HOUH, before examination
6	was remotely duly sworn to testify to the truth, the whole truth, and nothing but the truth.
7 8	That the foregoing deposition was taken remotely stenographically by me on Tuesday, July 27, 2021, and
9	thereafter was transcribed by me, and that the deposition is a full, true, and complete transcript of the testimony, including questions and answers, and
10	objections, motions and exceptions made by counsel.
11	That reading and signing was not requested; and that I am neither attorney nor counsel for, nor related
12	to or employed by, any of the parties to the action in which this deposition was taken; and that I have no
13	interest, financial or otherwise, in this case.
14	
15	IN WITNESS WHEREOF, I have hereunto set my hand this 3rd day of August 2021.
16	
17	
18	$QQ_{\sim}$
19	
20	GISELLE MITCHELL-MARGERUM, RPR, CRI, CCR, LCR, CSR
21	
22	
23	
24	
25	

1	DECLARATION UNDER PENALTY OF PERJURY
2	Case Name: Hulu vs. SITO Mobile
3	Date of Deposition: 07/27/2021
4	Job No.: 10085962
5	
6	I, HENRY HOUH, hereby certify
7	under penalty of perjury under the laws of the State of
8	that the foregoing is true and correct.
9	Executed this day of
10	, 2021, at
11	
12	
13	
14	HENRY HOUH
15	
16	NOTARIZATION (If Required)
	NOTARIZATION (If Required) State of
17	
17 18	State of
17 18 19	State of County of
17 18 19	State of County of Subscribed and sworn to (or affirmed) before me on
17 18 19 20	State of County of Subscribed and sworn to (or affirmed) before me on this day of, 20,
17 18 19 20 21 22	State of County of Subscribed and sworn to (or affirmed) before me on this day of, 20, by, proved to me on the
	State of County of Subscribed and sworn to (or affirmed) before me on this day of, 20, by, proved to me on the basis of satisfactory evidence to be the person
17 18 19 20 21 22 23	State of County of Subscribed and sworn to (or affirmed) before me on this day of, 20, by, proved to me on the basis of satisfactory evidence to be the person who appeared before me.

1 DEPOSITION ERRATA SHEET 2 Case Name: Hulu vs. SITO Mobile Name of Witness: Henry Houh 3 Date of Deposition: 07/27/2021 Job No.: 10085962 4 Reason Codes: 1. To clarify the record. 2. To conform to the facts. 5 3. To correct transcription errors. Page \_\_\_\_\_ Line \_\_\_\_\_ Reason \_\_\_\_\_ б 7 From \_\_\_\_\_\_ to \_\_\_\_\_ Page Line Reason 8 9 From \_\_\_\_\_\_ to \_\_\_\_\_ Page \_\_\_\_\_ Line \_\_\_\_\_ Reason \_\_\_\_\_ 10 11 From \_\_\_\_\_\_ to \_\_\_\_\_ 12 Page Line Reason From \_\_\_\_\_\_ to \_\_\_\_\_ 13 14 Page \_\_\_\_\_ Line \_\_\_\_\_ Reason \_\_\_\_\_ 15 From \_\_\_\_\_ to \_\_\_\_\_ 16 Page \_\_\_\_\_ Line \_\_\_\_\_ Reason \_\_\_\_\_ From \_\_\_\_\_\_ to \_\_\_\_\_ 17 18 Page \_\_\_\_\_ Line \_\_\_\_\_ Reason \_\_\_\_\_ 19 From \_\_\_\_\_ to \_\_\_\_\_ 20 Page \_\_\_\_\_ Line \_\_\_\_\_ Reason \_\_\_\_\_ From \_\_\_\_\_ to \_\_\_\_\_ 21 22 Page Line Reason 23 From \_\_\_\_\_ to \_\_\_\_\_ Page \_\_\_\_\_ Line \_\_\_\_\_ Reason \_\_\_\_\_ 24 25 From to \_\_\_\_\_

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22		-	the above is true an	changes, I certify that the
23	No	changes	have been	made. I certify that the and correct.
24		TIBCT TDC	IB LINE C	
25			HENRY	HOUH

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### Hulu vs. SITO Mobile

# Henry Houh

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